

Ș.I.dr.ing. Vasile COJOCARU

**Fișa de verificare a standardelor minimale, în conformitate cu Ordin MENCS nr. 6.129/ 20.12.2016, Anexa nr. 17-  
COMISIA INGINERIE MECANICA, MECATRONICA SI ROBOTICA**

| Nr                                 | Domeniul activităților                                                             | Rezultatele activităților                                                                                                                         | Subcategorii                                                                      |                                                                                                                     |                         | Indicatori                                | Indicatori realizați |
|------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------|----------------------|
| 1                                  | Activitatea didactică și profesională - DID (A1)                                   | Manuale suport de curs (conform fișei disciplinei de concurs)                                                                                     | A1.1                                                                              | Format tipărit/ electronic [1] (min. 100 pag.)                                                                      | Coordonator/ prim autor | N1.1 = număr                              | 2                    |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   |                                                                                                                     | Co-autor                | N1.2 = număr                              | 0                    |
|                                    |                                                                                    |                                                                                                                                                   | Format electronic disponibil pe platforma universității / departamentului (autor) |                                                                                                                     |                         | N1.3 = număr                              | 1                    |
|                                    |                                                                                    | Material didactic/ Dezvoltare laboratoare, aplicații                                                                                              | A1.2                                                                              | Standuri laborator (construcție/ modernizări) certificate de directorul de departament                              | N2.1 = număr            | 6                                         |                      |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   | Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor)                                  | N2.2 = număr            | 0                                         |                      |
| Aplicație informatică educațională | N2.3 = număr                                                                       |                                                                                                                                                   |                                                                                   | 1                                                                                                                   |                         |                                           |                      |
| 2                                  | Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2) | Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) [2], unde n = nr. de autori și FI este factorul de impact [3]    | A2.1                                                                              | Autor corespondent / prim autor                                                                                     | n≤3                     | P1.1 = 2*(0,2+FI)                         | 47.33                |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   |                                                                                                                     | n≥4                     | P1.2 = 2*3*(0,2+FI)/n                     |                      |
|                                    |                                                                                    |                                                                                                                                                   | Co-autor                                                                          | n≤3                                                                                                                 | P1.3 = 0,2+FI           | 3.67                                      |                      |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   | n≥4                                                                                                                 | P1.4 = 3*(0,2+FI)/n     |                                           |                      |
|                                    |                                                                                    | Articole și publicații științifice BDI [4] neincluse la A2.1                                                                                      | A2.2                                                                              | Autor corespondent / prim autor                                                                                     |                         | N3.1 = număr                              | 11                   |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   | Co-autor                                                                                                            |                         | N3.2 = număr                              | 14                   |
|                                    |                                                                                    | Brevete de invenții indexate [5]                                                                                                                  | A2.3                                                                              | Internaționale indexate în Web of Science - Derwent Innovation                                                      |                         | P2.1= același calcul cu A2.1 și FI = 2    | 0                    |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   | Naționale indexate OSIM                                                                                             |                         | P2.2 = același calcul cu A2.1 și FI = 0,5 | 0                    |
|                                    |                                                                                    | Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare) | A2.4                                                                              | Coordonator/ prim autor                                                                                             |                         | N4.1 = număr                              | 0                    |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   | Co-autor                                                                                                            |                         | N4.2 = număr                              | 0                    |
|                                    |                                                                                    | Monografii/ cărți de specialitate [2], format tipărit/ electronic (min. 100 pag.)                                                                 | A2.5                                                                              | Coordonator / prim autor                                                                                            |                         | N4.3 = număr *                            | 1                    |
| Co-autor                           |                                                                                    |                                                                                                                                                   |                                                                                   | N4.4 = număr                                                                                                        | 1                       |                                           |                      |
| 3                                  | Recunoașterea și impactul activității-RIA (A3)                                     | Atragere resurse financiare prin granturi/ proiecte/ contracte terți                                                                              | A3.1                                                                              | Director sau responsabil partener la grant/ proiect câștigat prin competiție națională sau internațională           |                         | S1 [6] = sumă echivalentă în mii Euro [9] | 51.764               |
|                                    |                                                                                    |                                                                                                                                                   |                                                                                   | Membru în echipă la grant/ proiect câștigat prin competiție națională sau internațională, proiecte/ contracte terți |                         | S2 [7] = sumă echivalentă în mii EURO [8] | 28.681               |
|                                    |                                                                                    | Prezentarea/ Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/ co-autor de lucrări, profesor invitat            | A3.2                                                                              | Congrese/ conferințe/ workshopuri internaționale, profesor invitat la universități/ institute din străinătate       |                         | N5 = număr                                | 12                   |
|                                    |                                                                                    | Citări în publicații BDI [5] (se exclud autocitățile)                                                                                             | A3.3                                                                              | C1 = numărul de citări<br>S <sub>FI</sub> = suma factorilor de impact al publicațiilor WOS în care apar citările    |                         | C= C1+ S <sub>FI</sub>                    | 1796.834             |

**TOTAL 1977.28**

[1] Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective. [2] Se exclud publicațiile conferințelor DAAAM și WSEAS. [3] FI este factorul de impact al revistei la data înscrierii la concurs sau la data publicării articolului (cel mai avantajos pentru candidat). Se iau în considerare la această categorie numai revistele cu factor de impact la data publicării articolului. O revistă WOS este echivalentă cu o revistă cotate ISI cf. Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/27.VI.2011. [4] Bazele de date BDI acceptate sunt: Web of Science Thomson Reuters (WOS) și SCOPUS. [5] Un brevet se poate încadra la o singură categorie. [6] Suma din grant/proiect încasată de instituție repartizată echipei din care directorul de grant/responsabil partener face parte (S1 include cheltuieli de: personal, logistică, deplasări, indirecte). [7] Suma din grant/proiect câștigat prin concurs național/internațional și proiecte/contracte terți încasată de instituție și repartizată de director/responsabil persoanei respective (S2 include cheltuieli de: personal, logistică, deplasări, indirecte). [8] Pentru contractele derulate înainte de 01.01.1999 se va considera echivalarea: 1 EURO = 1 \$ USA.

**Gradul de îndeplinirea a condițiilor minime și obligatorii**  
**Ș.I.dr.ing. Vasile Cojocaru**

| Condiții minime și obligatorii            |             |            |              |                      | Punctaj realizat |   |
|-------------------------------------------|-------------|------------|--------------|----------------------|------------------|---|
| Domeniul de activitate                    |             | Indicatori | Conferențiar | Profesor / Abilitare |                  |   |
| Activitatea didactică/profesională (A1)   | A1.1        | N1         | 2            | 2                    | 2                | √ |
|                                           |             | N1.1       | -            | 1                    | 2                | √ |
|                                           |             | N1.3       | 1            | 1                    | 1                | √ |
|                                           | A1.2        | N2         | 3            | 4                    | 7                | √ |
|                                           |             | N2.1       | 1            | 2                    | 6                | √ |
| Activitatea de cercetare (A2)             | A2.1 + A2.3 | P1+P2      | 5            | 10                   | 51.00            | √ |
|                                           |             | P1         | 3            | 6                    | 51.00            | √ |
|                                           | A2.2        | N3         | 8            | 10                   | 25               | √ |
|                                           |             | N3.1       | 3            | 5                    | 11               | √ |
|                                           | A2.4 + A2.5 | N4         | 1            | 2                    | 2                | √ |
|                                           |             | N4.3       | 0            | 1                    | 1                | √ |
| Recunoașterea impactului activității (A3) | A3.1        | S1 + S2    | 10           | 50                   | 80.44            | √ |
|                                           | A3.2        | N5         | 5            | 10                   | 12               | √ |
|                                           | A3.3        | C          | 10           | 25                   | 1796.83          | √ |

|              |                |
|--------------|----------------|
| <b>Total</b> | <b>1977.28</b> |
|--------------|----------------|

unde:

$P1 = P1.1 + P1.2 + P1.3 + P1.4$

$P2 = P2.1 + P2.2$

$N1 = N1.1 + N1.2$

$N2 = N2.1 + N2.2 + N2.3$

$N3 = N3.1 + N3.2$

$N4 = N4.1 + N4.2 + N4.3 + N4.4$

**Ș.I.dr.ing. Vasile Cojocaru**

**Subcategoria A1.1: Manuale suport de curs (conform fișei disciplinei de concurs)**

| N1.1 Manuale suport de curs format tipărit/ electronic (min. 100 p.) în calitate de coordonator/ prim autor *) |                                                                                                                                                                         | Punctaj |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1                                                                                                              | <a href="#">COJOCARU, Vasile: "Modelarea geometriilor 3D în ingineria mecanică", Presa Universitară Clujeană, Cluj-Napoca, 2024, ISBN 978-606-37-2291-2, 216 pagini</a> | 1       |
| 2                                                                                                              | <a href="#">COJOCARU, Vasile: "Rezistența materialelor I", Editura Eftimie Murgu, Reșița, 2018, ISBN 978-606-631-068-0, 202 pagini;</a>                                 | 1       |
| Total punctaj indicator N1.1                                                                                   |                                                                                                                                                                         | 2       |

| N1.2 Manuale suport de curs format tipărit/ electronic (min. 100 p.) în calitate de co-autor *) |  | Punctaj |
|-------------------------------------------------------------------------------------------------|--|---------|
|                                                                                                 |  |         |
|                                                                                                 |  |         |
| Total punctaj indicator N1.2                                                                    |  | 0       |

| N1.3 Manuale suport de curs în format electronic disponibil pe platforma universității (autor) |                                                                                                                                          | Punctaj |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1                                                                                              | <a href="#">COJOCARU, Vasile: "Rezistența materialelor II", Curs in format electronic disponibil pe platforma Teams a universitatii;</a> | 1       |
| Total punctaj indicator N1.3                                                                   |                                                                                                                                          | 1       |

\*) Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective

**Subcategoria A1.2: Material didactic. Dezvoltare laboratoare, aplicații**

| <b>N2.1</b> Standuri laborator (construcție/ modernizări) certificate de directorul de departament                                                                      |                                                                                                 | <b>Punctaj</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|
| 1                                                                                                                                                                       | Stand de laborator pentru măsurarea deformațiilor barelor curbe supuse la încovoiere            | 1              |
| 2                                                                                                                                                                       | Stand de laborator pentru măsurarea deformațiilor la cadre plane încărcate cu forțe concentrate | 1              |
| 3                                                                                                                                                                       | Ciocan-pendul pentru încercarea de încovoiere prin șoc a materialelor plastice și compozite     | 1              |
| 4                                                                                                                                                                       | Stand de laborator pentru încercări de fluaj la materiale plastice                              | 1              |
| 5                                                                                                                                                                       | Stand pentru încercări de tracțiune / compresiune acționat de un cric hidraulic manual          | 1              |
| 6                                                                                                                                                                       | Stand de laborator pentru determinarea deformațiilor la torsiune                                | 1              |
| <a href="#">Realizarea standurilor de laborator enumerate mai sus este certificată prin adeverință director Departamentul de Științe Inginerști, nr. 75/06.07.2026)</a> |                                                                                                 |                |
| <b>Total punctaj indicator N2.1</b>                                                                                                                                     |                                                                                                 | <b>6</b>       |

| <b>N2.2</b> Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor) |  | <b>Punctaj</b> |
|------------------------------------------------------------------------------------------------|--|----------------|
|                                                                                                |  |                |
| <b>Total punctaj indicator N2.2</b>                                                            |  | <b>0</b>       |

| <b>N2.3</b> Aplicație informatică educațională |                                                                                                                                                                           | <b>Punctaj</b> |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1                                              | <b>Aplicația educațională <i>Desen Tehnic și Infografică III</i></b> , disponibilă la <a href="https://sites.google.com/view/dti3">https://sites.google.com/view/dti3</a> | <b>1</b>       |
| <b>Total punctaj indicator N2.3</b>            |                                                                                                                                                                           | <b>1</b>       |

**Subcategoriile:****A2.1: Articole și publicații științifice indexate WOS****a. Articole și publicații în calitate de autor corespondent\*/ prim autor**

| Nr. crt. | Articol/ publicație științifică                                                                                                                                                                                                                                                                                                                                                                                                 | Nr. autori<br>n | Factor de impact FI | FI la data                          | Punctaj<br>P1.1/ P1.2 | WOS                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|-------------------------------------|-----------------------|---------------------|
| 1        | Bacescu, N.; Frunzaverde, D.*;<br><b>Cojocaru, V.*</b> (autor corespondent);<br>Rusu, G.I.; Turiac, R.-R.; Ciubotariu, C.-<br>R.; Marginean, G. <i>The Impact of<br/>Coloring Additives on Thermal,<br/>Mechanical, and Tribological Properties<br/>of FDM-Printed Components</i> . Polymers<br>2026, 18, 855. WOS:001738676700001<br><a href="https://doi.org/10.3390/polym18070855">https://doi.org/10.3390/polym18070855</a> | 7               | 5.8                 | data<br>raportării<br>(JCR<br>2026) | 5.143                 | WOS:001738676700001 |
| 2        | Ardeljan, D.D.; Frunzaverde, D.*;<br><b>Cojocaru, V.*</b> (autor corespondent);<br>Turiac, R.R.; Bacescu, N.; Ciubotariu,<br>C.R.; Marginean, G. <i>The Impact of<br/>Elevated Printing Speeds and Filament<br/>Color on the Dimensional Precision and<br/>Tensile Properties of FDM-Printed PLA<br/>Specimens</i> . Polymers 2025, 17, 2090.<br>DOI: 10.3390/polym17152090,<br>WOS:001548741800001                             | 7               | 5.8                 | data<br>raportării<br>(JCR<br>2026) | 5.143                 | 001548741800001     |
| 3        | <b>Cojocaru, V.</b> ; Frunzaverde, D.;<br>Marginean, G., <i>On the Use of Different<br/>Types of Standardized Dogbone<br/>Specimens for Tensile Tests of PLA<br/>Printed by MEX A Comparative Analysis</i> ,<br>FME TRANSACTIONS, 53, 2,<br>DOI10.5937/fme2502326C,<br>WOS:001490242500015                                                                                                                                      | 3               | 1.6                 | data<br>raportării<br>(JCR<br>2026) | 3.600                 | 001490242500015     |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     |                                     |       |                 |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-------------------------------------|-------|-----------------|
| 4 | <b>Cojocaru, V.</b> ; Turiac, R.R.; Frunzaverde, D.; Trisca, G.; Bacescu, N.; Marginean, G. <i>Effect of the Printing Scenario on the Dimensional Accuracy and the Tensile Strength of Different Colored PLA Specimens Produced by Fused Deposition Modeling</i> Applied Sciences, 2024, 14, 17, 7642 DOI: 10.3390/app14177642, WOS:001311103000001                                                                                     | 6 | 2.9 | data<br>raportării<br>(JCR<br>2026) | 3.100 | 001311103000001 |
| 5 | Frunzaverde, D.; <b>Cojocaru, V.*</b> (autor corespondent); Bacescu, N.; Ciubotariu, C.-R.; Miclosina, C.-O.; Turiac, R.R.; Marginean, G. <i>The Influence of the Layer Height and the Filament Color on the Dimensional Accuracy and the Tensile Strength of FDM-Printed PLA Specimens</i> . Polymers, 2023, 15, 2377; <a href="https://doi.org/10.3390/polym15102377">https://doi.org/10.3390/polym15102377</a> , WOS:000997089300001 | 7 | 5.8 | data<br>raportării<br>(JCR<br>2026) | 5.143 | 000997089300001 |
| 6 | <b>Cojocaru, V.</b> ; Frunzaverde, D.; Miclosina, C.-O. <i>On the Behavior of Honeycomb, Grid and Triangular PLA Structures under Symmetric and Asymmetric Bending</i> . Micromachines 2023, 14 (1), 120. <a href="https://doi.org/10.3390/mi14010120">https://doi.org/10.3390/mi14010120</a> , WOS:000927276600001                                                                                                                     | 3 | 3.5 | data<br>raportării<br>(JCR<br>2026) | 7.400 | 000927276600001 |
| 7 | Frunzaverde, D; <b>Cojocaru, V.*</b> (autor corespondent); Ciubotariu, CR; Miclosina, CO; Ardeljan, DD; Ignat, EF; Marginean, G, <i>The Influence of the Printing Temperature and the Filament Color on the Dimensional Accuracy, Tensile Strength, and Friction Performance of FFF-Printed PLA Specimens</i> , Polymers, 2022, 14, 10, pp. 1978, doi: 10.3390/polym14101978, WOS:000803215300001                                       | 7 | 5.8 | data<br>raportării<br>(JCR<br>2026) | 5.143 | 000803215300001 |

|                                             |                                                                                                                                                                                                                                                                                                     |   |     |                            |               |                 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|----------------------------|---------------|-----------------|
| 8                                           | <b>Cojocaru, V.</b> ; Frunzaverde, D; Miclosina, CO; Marginean, G, <i>The Influence of the Process Parameters on the Mechanical Properties of PLA Specimens Produced by Fused Filament Fabrication – A Review</i> , Polymers, 2022, 14, 5, pp. 886, doi: 10.3390/polym14050886, WOS:000769207600001 | 4 | 5.8 | data raportării (JCR 2026) | 9.000         | 000769207600001 |
| 9                                           | <b>Cojocaru V.</b> , Frunzăverde D., Nedelcu D., Micloșină C.O., Mărginean G., Study Regarding the Influence of the Printing Orientation Angle on the Mechanical Behavior of Parts Manufactured by Material Jetting, <i>Materiale Plastice</i> , 58 (3), 2021, 198-209; WOS:000705010100007         | 5 | 0.8 | data raportării (JCR 2026) | 1.200         | 000705010100007 |
| 10                                          | Nedelcu D., <b>Cojocaru V.*</b> (autor corespondent), Avasiloaie R.C., Numerical Investigation of Nozzle Jet Flow in a Pelton Microturbine, <i>Machines</i> , vol. 9, 2021, 158, doi.org/10.3390/machines9080158; WOS:000689390300001                                                               | 3 | 3   | data raportării (JCR 2026) | 6.400         | 000689390300001 |
| 11                                          | Nedelcu D., <b>Cojocaru V.*</b> (autor corespondent), Micu L.M., Florea D., Hlușcu M., <i>Using of Polymers for Rapid Prototyping of an Axial Microturbine Runner and Wicked Gates</i> , <i>Materiale Plastice</i> 56 (2), 454, 2019, WOS: 000476641000033                                          | 5 | 0.8 | data raportării (JCR 2026) | 1.200         | 000476641000033 |
| <b>Total punctaj indicatori P1.1 + P1.2</b> |                                                                                                                                                                                                                                                                                                     |   |     |                            | <b>47.329</b> |                 |

**b. Articole și publicații în calitate de co-autor**

| Nr. crt. | Articol/ publicație științifică                                                                                                                                                                                                                                                                              | Nr. autori n | Factor de impact FI | FI la data                 | Punctaj P1.3/ P1.4 | WOS             |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|----------------------------|--------------------|-----------------|
| 1        | Timofte, S.; Miclosina, C.-O.; <b>Cojocaru, V.</b> ; Gerocs, A.; Korka, Z.-I. Inertial Propulsion of a Mobile Platform Driven by Two Eccentric Bodies. <i>Applied Sciences</i> , 2023, 13, 9511. <a href="https://doi.org/10.3390/app13179511">https://doi.org/10.3390/app13179511</a> , WOS:001063642600001 | 5            | 2.9                 | data raportării (JCR 2026) | 1.860              | 001063642600001 |

|                                             |                                                                                                                                                                                                                                                                                                                     |   |       |                                    |              |                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|------------------------------------|--------------|-----------------|
| 2                                           | Korka Z.I., <b>Cojocaru V.</b> , Gillich N., Miclosina C.O., <i>Comparative assessment of noise reduction in helical gearboxes</i> , Journal of Vibration Engineering & Technologies, 5 (3), 263-268, 2017, WOS: 000404371400008                                                                                    | 4 | 0.615 | data publicării articolului (2017) | 0.611        | 000404371400008 |
| 3                                           | Nedelcu D., <b>Cojocaru V.</b> , Ghican A., Peris-Bendu F., Avasiloaie R., <i>Considerations Regarding the Use of Polymers for the Rapid Prototyping of the Hydraulic Turbine Runners Designed for Experimental Research on the Model</i> , Materiale Plastice, vol. 52 (4), 2015, pp. 475-479, WOS:000368971900011 | 5 | 0.8   | data raportării (JCR 2026)         | 0.600        | 000368971900011 |
| 4                                           | Nedelcu D., <b>Cojocaru V.</b> , Nedeloni M.D., Peris-Bendu F., Ghican A., <i>Failure analysis of a Ti-6Al-4V ultrasonic horn used in cavitation erosion tests</i> , Mechanika, ISSN: 1392-1207, vol. 21, no. 4, 2015, pp. 272-276, DOI: 10.5755/j01.mech.21.4.10023, WOS:000361845600003                           | 5 | 0.8   | data raportării (JCR 2026)         | 0.600        | 000361845600003 |
| <b>Total punctaj indicatori P1.3 + P1.4</b> |                                                                                                                                                                                                                                                                                                                     |   |       |                                    | <b>3.671</b> |                 |

### A2.3: Brevete de invenții indexate

#### a. Brevete de invenții internaționale indexate în WOS- Derwent Innovation

| Nr. crt.                            | Brevet de invenție | Nr. autori n | Factor de impact FI | Punctaj P2.1 |
|-------------------------------------|--------------------|--------------|---------------------|--------------|
|                                     |                    |              |                     |              |
| <b>Total punctaj indicator P2.1</b> |                    |              |                     | <b>0</b>     |

#### b. Brevete de invenții naționale indexate OSIM

| Nr. crt.                            | Brevet de invenție | Nr. autori n | Factor de impact FI | Punctaj P2.2 |
|-------------------------------------|--------------------|--------------|---------------------|--------------|
|                                     |                    |              |                     |              |
| <b>Total punctaj indicator P2.2</b> |                    |              |                     | <b>0</b>     |



## Subcategoria A2.2: Articole și publicații științifice indexate BDI neincluse la A2.1

| N3.1 Articole și publicații în calitate de autor corespondent / prim autor                                                                                                                                                                                                                                                                                                                                                                                | BDI            | Punctaj |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|
| 1 Turiac, RR., <b>Cojocaru, V.*</b> (autor corespondent), Băcescu, N., Korka, ZI., Toth, I. (2026). Assessment of Cylindrical Surfaces Accuracy in PLA Parts Produced by Material Extrusion. Computational Mechanics and Virtual Engineering. Advanced Structured Materials, vol 252. Springer, Cham. <a href="https://doi.org/10.1007/978-3-032-20761-6_6">https://doi.org/10.1007/978-3-032-20761-6_6</a>                                               | SCOPUS         | 1       |
| 2 <b>Cojocaru, V.</b> , Korka, ZI., Miclosina, CO. (2026). Study of the Dynamic Behavior of Gears with Lattice Structure Body. Proceedings of the 3rd International Conference on Mechanical System Dynamics, Volume 5. ICMSD2025 2025. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-95-7109-3_27">https://doi.org/10.1007/978-981-95-7109-3_27</a>                                             | SCOPUS         | 1       |
| 3 Miclosina, CO., <b>Cojocaru, V.*</b> (autor corespondent), Korka, ZI., Evaluation by Numerical Simulation of Friction Forces in Spherical Joints of a 6-DOF Parallel Topology Robot, Proceedings of SYROM 2022 & ROBOTICS 2022. IISSMM 2022, Mechanisms and Machine Science, vol 127. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-25655-4_16">https://doi.org/10.1007/978-3-031-25655-4_16</a> ; indexare SCOPUS;                        | SCOPUS         | 1       |
| 4 <b>Cojocaru V.</b> , Campian C.V., Frunzaverde D., A comparative analysis of the methods used for testing the cavitation erosion resistance on the vibratory devices, U.P.B. Sci. Bull., Series D, Vol. 77, Iss. 4, 2015, ISSN 1454-2358, pp. 257-262; indexare SCOPUS;                                                                                                                                                                                 | SCOPUS         | 1       |
| 5 <b>Cojocaru V.</b> , Miclosina C.O., Korka Z.I., Fatigue Analysis of Large Diameter Threaded Connections Subjected to Dynamic Axial Loads, The 6th International Conference on Advanced Concepts in Mechanical Engineering, 12-13.06.2014, Iași, publicată în Applied Mechanics and Materials, Vol. 658 (2014), pp. 177-182, doi: 10.4028/www.scientific.net/AMM.658.177; indexare SCOPUS;                                                              | SCOPUS         | 1       |
| 6 <b>Cojocaru V.</b> , Korka Z.I., Miclosina C.O., Stress Analysis and Optimal Design of the Housing of a Two-Stage Gear Reducer, The 6th International Conference on Advanced Concepts in Mechanical Engineering, Iași, 12-13.06.2014, Iași, publicată în Applied Mechanics and Materials, Vol. 658, (2014), pp. 183-188, doi: 10.4028/www.scientific.net/AMM.658.183; indexare SCOPUS;                                                                  | SCOPUS         | 1       |
| 7 <b>Cojocaru V.</b> , Câmpian C.V, Frunzăverde D., Micloșină C.O., Residual Stresses Analysis of Weld Overlays Coatings Used for the Repairs at Kaplan Turbine Runner Blades Areas Damaged by Cavitation Erosion, „Recent Researches in Environment, Energy Planning and Pollution”, Proceedings of the 5th International Conference on Renewable Energy Sources (RES '11) , Iași, July 1-3, 2011, pp. 225-229, ISSN 978-1-61804-012-1; indexare SCOPUS; | SCOPUS         | 1       |
| 8 <b>Cojocaru V.</b> , Balint D., Câmpian C.V., Nedelcu D., Jianu C., Numerical Investigations of Flow on the Kaplan Turbine Runner Blade Anticavitation Lip with Modified Cross Section, „Recent Researches in Mechanics”, Proceedings of the 2nd International Conference on Theoretical and Applied Mechanics 2011 (TAM '11), Corfu Island, Greece July 14-16, 2011, pp. 215-218, ISSN 978-1-61804-020-6, 2011; indexare SCOPUS;                       | SCOPUS         | 1       |
| 9 <b>Cojocaru V.</b> , Câmpian C.V., Frunzăverde D., Ion I., Cuzmoș A., Dumbravă C., Laboratory tests concerning the influence of surface hardening on the cavitation erosion resistance, Proceedings of 3rd Wseas International Conference On Engineering Mechanics, Structures, Engineering Geology (Emeseg '10), Corfu, 2010-07-22, pag. 210-213, ISSN 1792-4294, 2010; indexare ISI, SCOPUS;                                                          | WOS,<br>SCOPUS | 1       |
| 10 <b>Cojocaru V.</b> , Frunzăverde D., Câmpian C.V., Marginean G., Ciubotariu R., Pittner A.M., Cavitation erosion investigations on thermal spray coatings, Proceedings of 3rd Wseas International Conference On Engineering Mechanics, Structures, Engineering Geology (Emeseg '10), Corfu, 2010-07-22, pag. 177-180, ISSN 1792-4294, 2010; indexare ISI, SCOPUS;                                                                                      | WOS,<br>SCOPUS | 1       |

|                                     |                                                                                                                                                                                                                                                                                                                                                   |                |           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| 11                                  | <b>Cojocaru V.</b> , Aspects Concerning the Development of Hybrid Propulsion Systems for Mobile Robots, „Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium Intelligent Manufacturing & Automation”, 25-28 Nov. 2009, Viena, Austria, pp. 1899-1900, ISSN 1726-9679, 978-3-901509-70-4, 2009; indexare ISI, SCOPUS; | WOS,<br>SCOPUS | 1         |
| <b>Total punctaj indicator N3.1</b> |                                                                                                                                                                                                                                                                                                                                                   |                | <b>11</b> |

| <b>N3.2 Articole și publicații în calitate de co-autor</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>BDI</b>     | <b>Punctaj</b> |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| 1                                                          | Geroes A., Korka Z.I., <b>Cojocaru V.</b> , Miclosina C.O., Modal Analysis of a Gearbox Housing in Order to Avoid Resonance Frequencies, 15th Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2019; Timișoara; Romania; 30 May 2019 through 31 May 2019; Code 251989, Springer Proceedings in Physics, Volume 251, 2021, Pages 343-350, indexare Scopus;                                                                                | SCOPUS         | 1              |
| 2                                                          | Micloșină C.O., Korka Z.I., <b>Cojocaru V.</b> , Evaluation by Simulation of Reaction Forces that Occur in Spherical Joints of Parallel Topology Robots, New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2020. Mechanisms and Machine Science, vol 88. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-60076-1_20">https://doi.org/10.1007/978-3-030-60076-1_20</a> , pp. 226-234, indexare Scopus;               | SCOPUS         | 1              |
| 3                                                          | Miclosina C.O., <b>Cojocaru V.</b> , Korka Z.I., Analysis of a 6-DOF parallel robot motion simulation, International Conference on Applied Sciences – ICAS 2019, Hundoara, 9-11 mai 2019; Journal of Physics: Conference Series 1426 (1), 2020, 012003, indexare ISI Scopus;                                                                                                                                                                                 | WOS,<br>SCOPUS | 1              |
| 4                                                          | Geroes A., Korka Z.I., Biro I., <b>Cojocaru V.</b> , Analytical investigation of an inertial propulsion system using rotating masses, International Conference on Applied Sciences – ICAS 2019, Hundoara, 9-11 mai 2019; Journal of Physics: Conference Series 1426 (1), 2020, 012031, indexare ISI, Scopus;                                                                                                                                                 | WOS,<br>SCOPUS | 1              |
| 5                                                          | Korka Z.I., <b>Cojocaru V.</b> , CO Micloșină C., Modal-Based Design Optimization of a Gearbox Housing, Romanian Journal of Acoustics and Vibration 16 (1), 58-65, 2019, indexare ISI, SCOPUS; WOS:000502625500008;                                                                                                                                                                                                                                          | WOS,<br>SCOPUS | 1              |
| 6                                                          | Ene T., <b>Cojocaru V.</b> , Nedelcu D., Static, dynamic and fatigue analysis of a railway bridge with pedestrian area, IOP Conference Series: Materials Science and Engineering 444 (6), 062009, 2018, indexare ISI, SCOPUS; WOS:000467443600096;                                                                                                                                                                                                           | WOS,<br>SCOPUS | 1              |
| 7                                                          | Ene T., Nedelcu D., <b>Cojocaru V.</b> , Vela D.G., Comparative analysis of stress state and fatigue behaviour of two types of welded joints used for a HEM-beams structure, IOP Conference Series: Materials Science and Engineering 444 (6), 062008, 2018, indexare ISI, SCOPUS; WOS:000467443600095;                                                                                                                                                      | WOS,<br>SCOPUS | 1              |
| 8                                                          | Korka Z.I., <b>Cojocaru V.</b> , Micloșina C.O., Shape Improvement of a Gearbox Housing Using Modal Analysis, Romanian Journal of Acoustics and Vibration 15 (1), 47-52, 2018, indexare ISI, SCOPUS; WOS:000444766100008;                                                                                                                                                                                                                                    | WOS,<br>SCOPUS | 1              |
| 9                                                          | Secoșan E.R., Ciubotariu R.C., <b>Cojocaru V.</b> , Frunzaverde D., Campian C.V., Study Regarding the Cavitation Erosion Behaviour and Residual Stresses of Impact Resistant Hardfacing Materials, The 7th International Conference Innovative Technologies for Joining Advanced Materials, 19-20.06.2014, Timisoara, publicată în Advanced Materials Research, Vol. 1029, 2014, pp. 146-151, doi: 10.4028/www.scientific.net/AMR.1029.146; indexare SCOPUS; | SCOPUS         | 1              |
| 10                                                         | Korka Z.I., <b>Cojocaru V.</b> , Miclosina C.O., Simulation of the Tooth Helix Angle Influence on the Vibration of a Single Stage Helical Gearbox, The 6th International Conference on Advanced Concepts in Mechanical Engineering, 12-13.06.2014, Iași, publicată în Applied Mechanics and Materials, Vol. 658 (2014), pp. 83-88, doi:10.4028/www.scientific.net/AMM.658.83; indexare SCOPUS;                                                               | SCOPUS         | 1              |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |                |           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| 11                                  | Korka Z.I., Miclosina C.O., <b>Cojocaru V.</b> , Some Aspects Regarding the Mathematical Modeling and Dynamic Simulation of a Single Stage Helical Gearbox, The 6th International Conference on Advanced Concepts in Mechanical Engineering, 12-13.06.2014, Iași, publicată în Applied Mechanics and Materials, Vol. 658 (2014), pp. 89-94, doi:10.4028/www.scientific.net/AMM.658.89; indexare SCOPUS;                     | SCOPUS         | 1         |
| 12                                  | Micloșină C.O., Câmpian C.V., Frunzăverde D., <b>Cojocaru V.</b> , Analysis of an Outer Bearing Bush of a Hydropower Plant Kaplan Turbine Using Finite Element Method, „Recent Researches In Environment, Energy Planning and Pollution”, Proceedings of the 5th International Conference on Renewable Energy Sources (RES '11), Iasi, Romania, July 1-3, 2011, pp. 221-224, ISSN 978-1-61804-012-1, 2011; indexare SCOPUS; | SCOPUS         | 1         |
| 13                                  | Frunzăverde D., Câmpian C.V., <b>Cojocaru V.</b> , Marginean G., Baran M., Ciubotariu R., Influence of welded layers thickness on the cavitation erosion resistance, Proceedings of 6th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '10), Timisoara, 21-23 oct. 2010, pp. 316-320, ISSN 1792-5924, 2010; indexare SCOPUS;                                          | SCOPUS         | 1         |
| 14                                  | Pittner A.M., Câmpian C.V., Nedelcu D., Frunzăverde D., <b>Cojocaru V.</b> , Stress concentration factors for pin lever of runner blade mechanism from Kaplan turbines, Proceedings of 3rd WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (Emeseg '10), Corfu, 2010-07-2, pag. 181-185, ISSN 1792-4294, 2010; indexare ISI, SCOPUS;                                               | WOS,<br>SCOPUS | 1         |
| <b>Total punctaj indicator N3.2</b> |                                                                                                                                                                                                                                                                                                                                                                                                                             |                | <b>14</b> |

**Subcategoriile:****A2.4: Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)**

| N4.1 Produse, tehnologii, platforme și servicii inovative în calitate de coordonator/ prin autor |  | Punctaj |
|--------------------------------------------------------------------------------------------------|--|---------|
|                                                                                                  |  |         |
| Total punctaj indicator N4.1                                                                     |  | 0       |

| N4.2 Produse, tehnologii, platforme și servicii inovative în calitate de co-autor |  | Punctaj |
|-----------------------------------------------------------------------------------|--|---------|
|                                                                                   |  |         |
| Total punctaj indicator N4.2                                                      |  | 0       |

**A2.5: Monografii de specialitate, format tipărit/ electronic (min 100 pag.)**

| N4.3 Monografii de specialitate, format tipărit/ electronic în calitate de coordonator/ prin autor *) |                                                                                                                                                                                                                      | Punctaj |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1                                                                                                     | <a href="#">COJOCARU Vasile: Rezistența materialelor. Calcul analitic și analiză FEM, Presa Universitară Clujeană, ISBN: 978-606-37-2757-3 (format tipărit), ISBN: 978-606-37-2758-0 (E-book), 212 pagini, 2025;</a> | 1       |
| Total punctaj indicator N4.3                                                                          |                                                                                                                                                                                                                      | 1       |

| N4.4 Monografii de specialitate, format tipărit/ electronic în calitate de co-autor |                                                                                                                                                                              | Punctaj |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1                                                                                   | <a href="#">NEDELICU, Dorian; COJOCARU Vasile: "Grafică asistată de calculator prin AutoCAD", Editura Eftimie Murgu, Reșița, 2010, ISBN 978-973-1906-84-3508, 508 pagini</a> | 1       |
| Total punctaj indicator N4.4                                                        |                                                                                                                                                                              | 1       |

\*) Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective

**Subcategoria A3.1: Atragere resurse financiare prin granturi/proiecte/contracte terți**
**a. Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională**

| Nr. crt.        | Denumire proiect                                                                                                                                                                                                             | Tip                                                                            | Calitatea avuta în proiect                                                       | Nr. contract         | Suma încasă de instituție și repartizată echipei din care directorul/ responsabil face parte | Data incasarii | Curs mediu valutar al anului încasării | S1 Sumă echivalenta în mii Euro | Documente justificative                  | Observații |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------|----------------|----------------------------------------|---------------------------------|------------------------------------------|------------|
| 1               | CNFIS-FDI-2018-0257, Creșterea accesului la învățământul superior pentru tinerii din mediile defavorizate din județul Caraș-Severin și zonele limitrofe                                                                      | Grant național, finanțare MEN - Fondul de Dezvoltare Instituțională (FDI 2017) | Director de proiect                                                              | CNFIS-FDI-2018-0257  | 84,000 lei                                                                                   | 2018           | 4.6535                                 | 18.05                           | <a href="#">Adev. UEM 805/18.03.2019</a> |            |
| 2               | POCU 121030, Împreună universități și angajatori. Un sistem integrat de programe educaționale inovative, Expert implementare activități partener 2 (Responsabil partener P2 - UEM Reșița) în perioada 12.02.2019-07.04.2020; | Grant național (POCU)                                                          | Expert implementare activități partener 2 (Responsabil partener P2 - UEM Reșița) | POCU 320/6/21-121030 | 163,073 lei                                                                                  | 2019-2020      | 4.8371                                 | 33.71                           | <a href="#">Adev UEM 1296/30.07.2020</a> |            |
| <b>Total S1</b> |                                                                                                                                                                                                                              |                                                                                |                                                                                  |                      |                                                                                              |                |                                        | <b>51.76</b>                    |                                          |            |

**b. Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/ contracte terți**

| Nr. crt. | Denumire proiect                                                                                                                                                                                                                     | Tip                                                     | Calitatea avută în proiect                 | Nr. contract                                                                  | Suma încasă de instituție și repartizată de director/ responsabil persoanei respective | Data încasării | Curs mediu valutar al anului încasării | S2 Sumă echivalentă în mii Euro | Documente justificative                                                                                 | Observații                         |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------|----------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------|
| 1        | Cercetări privind starea de solicitare la butucul, pistonul și furcile rotorului turbinei Kaplan de la CHE Porțile de Fier I, la apariția suprapresiunii în cilindrul butucului, în regim de avarie                                  | Contract de cercetare cu beneficiar din mediul economic | Responsabil de contract (director proiect) | UBB<br>31/17.01.2024<br>Beneficiar:<br>CCHAPT<br>Dezvoltări de Proiecte SRL   | 22,444 lei                                                                             | 2024           | 4.9746                                 | 4.51                            | <a href="#">Contract 31_17.01.2024,</a><br><a href="#">Contract de muncă, Deviz de cheltuieli</a>       | Valoare totală contract: 65450 lei |
| 2        | Cercetări privind influența soluțiilor de modificare a alezajelor filetate de la îmbinarea butuc – capac rotor asupra tensiunilor maxime și duratei de viață a butucului rotorului turbinei Kaplan nr. 1 de la CHE Porțile de Fier I | Contract de cercetare cu beneficiar din mediul economic | Responsabil de contract (director proiect) | UBB<br>458_15.05.2024<br>Beneficiar:<br>CCHAPT<br>Dezvoltări de Proiecte SRL  | 19,700 lei                                                                             | 2024           | 4.9746                                 | 3.96                            | <a href="#">Contract nr. 458_15.05.2024,</a><br><a href="#">Contract de muncă, Deviz de cheltuieli</a>  | Valoare totală contract: 59500 lei |
| 3        | Cercetări privind comportarea camerei spirală de la turbinele din CHE Retezat la încărcări variabile                                                                                                                                 | Contract de cercetare cu beneficiar din mediul economic | Responsabil de contract (director proiect) | UBB<br>1691_16.02.2021<br>Beneficiar:<br>CCHAPT<br>Dezvoltări de Proiecte SRL | 4,694 lei                                                                              | 2021           | 4.9204                                 | 0.95                            | <a href="#">Contract UBB 1691_16.02.2021,</a><br><a href="#">Contract de muncă, deviz de cheltuieli</a> | Valoare totală contract: 14280 lei |

|   |                                                                                                                                                                                                                                |                                                         |                               |                                                                                     |           |      |        |      |                                                               |                                     |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----------|------|--------|------|---------------------------------------------------------------|-------------------------------------|
| 4 | Studiu de fezabilitate pentru retehnologizarea CHE Râul Mare Retezat, Responsabil temă: Calcule de rezistență și estimări de oboseală pentru camera spirală, vana sferică și regulatorul de presiune din CHE Râul Mare Retezat | Contract de cercetare cu beneficiar din mediul economic | Responsabil temă              | Contract nr. 4586/1/10.09.2015<br>Beneficiar: Aqua Proiect S.A. / Hidroelectrica SA | 3,000 lei | 2016 | 4.4908 | 0.67 | <a href="#">Adev CCHAPT 74/15.09.2016, CIM 921/02.08.2016</a> | Valoare totală contract: 135081 lei |
| 5 | Servicii de proiectare echipare butuc turbină rezultat în urma retehnologizării HA1 din CHE Porțile de Fier I (Faza I+Faza II)                                                                                                 | Contract de cercetare cu beneficiar din mediul economic | Membru în echipa de cercetare | Contract nr. 130/08.07.2015, Beneficiar S.H. Porțile de Fier (Hidroelectrica)       | 5,000 lei | 2015 | 4.4450 | 1.12 | <a href="#">Adev CCHAPT 90/10.11.2016, CCPS 14/01.08.2015</a> | Valoare totală contract: 95000 lei  |
| 6 | Consultanță tehnică în domeniul elaborării documentației grafice specifice ingineriei mecanice,                                                                                                                                | Contract cu beneficiar din mediul economic              | Director de contract          | Contract nr. 8/02.09.2013, Beneficiar: SC TMD Friction S.R.L.                       | 3,500 lei | 2013 | 4.4190 | 0.79 | <a href="#">Contract nr. 8/02.09.2013</a>                     | Valoare totală contract: 3500 lei   |
| 7 | Consultanță tehnică în aplicații de proiectare asistată de calculator                                                                                                                                                          | Contract cu beneficiar din mediul economic              | Director de contract          | Contract nr. 5/21.05.2013, Beneficiar: Windkraft Simonsfeld RO S.R.L.               | 1,600 lei | 2013 | 4.4190 | 0.36 | <a href="#">Contract nr. 5/21.05.2013</a>                     | Valoare totală contract: 1600 lei   |
| 8 | Proiectarea de părți profilate și evaluări de randament la centralele hidroelectrice de mica putere Bilca 1, Bilca 2, Bilca 3 și Țibeni                                                                                        | Contract cu beneficiar din mediul economic              | Responsabil temă              | Contract nr. 94/01.08.2012, Beneficiar: Electromagnetica București,                 | 4,000 lei | 2012 | 4.4560 | 0.90 | <a href="#">Adev CCHAPT 74/15.09.2016, CPS 34/02.04.2012</a>  | Valoare totală contract: 28000 lei  |

|    |                                                                                                                              |                                                         |                                |                                                 |            |      |        |      |                                                               |                                        |
|----|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------|-------------------------------------------------|------------|------|--------|------|---------------------------------------------------------------|----------------------------------------|
| 9  | Cacule de durată de viață pentru manivela paletelor rotorului turbinei de la CHE Porțile de Fier I                           | Contract de cercetare cu beneficiar din mediul economic | Membru al echipei de cercetare | Act Ad. 13/14.01.2009 la contract 9839/22.12.97 | 3,000 lei  | 2010 | 4.2099 | 0.71 | <a href="#">Adev CCHAPT 74/15.09.2016. CCPS 32/04.01.2010</a> | Valoare totală contract: 46000 lei     |
| 10 | Sustainable Future: INTEGRArea pe piața muncii pentru Școala de Inginerie și Tehnologie a UBB (INTEGRA)                      | PEO 2021-2027                                           | Coordonator facultate FIR      | PEO 302242                                      | 41,922 lei | 2025 | 5.0415 | 8.32 | <a href="#">Contract de muncă 41890/27.04.2025 (UBB)</a>      | Sumă (salariu brut) până la 20.06.2026 |
| 11 | CircleREdu - Circular Economy and Reverse Engineering Education for the Green Transition                                     | ERASMUS+ Parteneriate strategice                        | Expert învățământ              | 2024-1-PL01-KA220-HED-000254978                 | 11,200 lei | 2025 | 5.0415 | 2.22 | <a href="#">Contract de muncă 41237/25.02.2025 (UBB)</a>      | Sumă (salariu brut) până la 20.06.2026 |
| 12 | CNFIS-FDI-2020-0556, Laboratoare moderne – studenți performanți                                                              | CNFIS-FDI                                               | Membru în echipa de proiect    | CNFIS-FDI-2020-0556                             | 1,562 lei  | 2020 | 4.8371 | 0.32 | <a href="#">Adev UEM 48/04.02.2021</a>                        |                                        |
| 13 | CNFIS-FDI-2019-0348 Înființarea unei rețele academice sud-est-europene pentru tehnologii de fabricație aditive SEEAM Network | CNFIS-FDI                                               | Expert tehnic                  | CNFIS-FDI-2019-0348                             | 3,318 lei  | 2019 | 4.7452 | 0.70 | <a href="#">Adev. 117/22.01.2020</a>                          |                                        |
| 14 | CNFIS-FDI-2019-0099 Dezvoltarea bazei materiale pentru susținerea activităților aplicative în domeniul tehnic – DBM-SAADT    | CNFIS-FDI                                               | Membru în echipa de proiect;   | CNFIS-FDI-2019-0099                             | 728 lei    | 2019 | 4.7452 | 0.15 | <a href="#">Adev. 27/09.01.2020</a>                           |                                        |



|          |                                                                                                                                                              |           |                              |                                     |           |      |        |       |                                          |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------|-------------------------------------|-----------|------|--------|-------|------------------------------------------|--|
| 15       | CNFIS-FDI-2018-0282<br>Modernizarea bazei materiale pentru susținerea activităților didactice în domeniul tehnic la Universitatea „Eftimie Murgu” din Reșița | CNFIS-FDI | Membru în echipa de proiect; | CNFIS-FDI-2018-0282                 | 1,213 lei | 2018 | 4.6535 | 0.26  | <a href="#">Adev. 232/31.01.2019</a>     |  |
| 16       | Evaluarea potențialului eolian în partea de Sud a Banatului din perspectiva dezvoltării durabile                                                             | PHARE CBC | Manager tehnic               | PHARE CBC, RO 2006/018-448.01.01.08 | 2,960 lei | 2008 | 3.6827 | 0.80  | <a href="#">CIM 24.1.42 / 03.09.2008</a> |  |
|          |                                                                                                                                                              |           |                              |                                     | 8,140 lei | 2009 | 4.2373 | 1.92  |                                          |  |
| Total S2 |                                                                                                                                                              |           |                              |                                     |           |      |        | 28.68 |                                          |  |

Observație: Cursurile medii anuale sunt disponibile pe site-ul BNR la adresa

<http://www.bnr.ro/Cursul-de-schimb-3544.aspx>

**Subcategoria A3.2: Prezentarea/ Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat**

| <b>N5: Congrese/conferințe/workshopuri internaționale, profesor invitat la universități/ institute din străinătate</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Punctaj</b> |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1                                                                                                                      | <p><b>The 3rd International Conference on Mechanical System Dynamics, Cluj-Napoca, 23-27 septembrie 2025</b></p> <p>1. Cojocaru, V., Korka Z.I., Micloșină C.O.*, <i>Study of the Dynamic Behavior of Gears with Lattice Structure Body</i>, The 3rd International Conference on Mechanical System Dynamics, Cluj-Napoca, 23-27 septembrie 2025; <a href="http://www.icmsd-conference.com/">http://www.icmsd-conference.com/</a></p>                                                                                                                                                                          | 1              |
| 2                                                                                                                      | <p><b>The 10th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2022) Iași</b></p> <p>Cojocaru, V.; Miclosina, C-O.; Campian, C. V.; Frunzaverde, D.; Nedelcu, D. Numerical Investigation of the Stress State in the Runner Hub of a Kaplan Turbine. The 10th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2022) Iași, (organizată online); IOP Conference Series: Materials Science and Engineering 2022, 1262 (1), 012046. <a href="https://doi.org/10.1088/1757-899x/1262/1/012046">https://doi.org/10.1088/1757-899x/1262/1/012046</a>;</p> | 1              |
| 3                                                                                                                      | <p><b>The 9th International Conference on Computational Mechanics and Virtual Engineering COMEC 2021, 21-23 October 2021, TRANSILVANIA UNIVERSITY OF BRASOV, ROMANIA</b></p> <p>Cojocaru V, Câmpian V.C., Frunzăverde D., Micloșină C.O., Static Analysis of the Inlet Spherical Valve From a Francis Turbine, The 9th International Conference on Computational Mechanics and Virtual Engineering COMEC 2021, Brașov, Transilvania University Press of Brașov, 2021;</p>                                                                                                                                     | 1              |
| 4                                                                                                                      | <p><b>The 8th International Conference on Advanced Concepts in Mechanical Engineering 7–8 June 2018, Iasi, Romania</b></p> <p>1. Ene T., Cojocaru V., Nedelcu D., <i>Static, dynamic and fatigue analysis of a railway bridge with pedestrian area</i>, The 8th International Conference on Advanced Concepts in Mechanical Engineering 7–8 June 2018, Iasi, Romania, IOP Conference Series: Materials Science and Engineering 444 (6), 062009, 2018, indexare ISI, SCOPUS; WOS:000467443600096;</p>                                                                                                          | 1              |
| 5                                                                                                                      | <p><b>The 7th International Conference Innovative Technologies for Joining Advanced Materials, 19-20.06.2014, Timisoara</b></p> <p>Secoșan E.R., Ciubotariu R.C., Cojocaru V., Frunzaverde D., Campian C.V., <i>Study Regarding the Cavitation Erosion Behaviour and Residual Stresses of Impact Resistant Hardfacing Materials</i>, The 7th International Conference Innovative Technologies for Joining Advanced Materials, 19-20.06.2014, Timisoara, publicată în <i>Advanced Materials Research</i>, Vol. 1029, 2014, pp. 146-151, doi: 10.4028/www.scientific.net/AMR.1029.146; indexare SCOPUS;</p>     | 1              |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 6 | <p><b>6th International Conference on Advanced Concepts in Mechanical Engineering June 12-13, 2014, Iași, "GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IASI</b></p> <p>1. Cojocaru V., Miclosina C.O., Korka Z.I., <i>Fatigue Analysis of Large Diameter Threaded Connections Subjected to Dynamic Axial Loads</i>, The 6th International Conference on Advanced Concepts in Mechanical Engineering, 12-13.06.2014, Iași, publicată în <i>Applied Mechanics and Materials</i>, Vol. 658 (2014), pp. 177-182, doi: 10.4028/www.scientific.net/AMM.658.177; indexare SCOPUS;</p> <p>2. Cojocaru V., Korka Z.I., Miclosina C.O., <i>Stress Analysis and Optimal Design of the Housing of a Two-Stage Gear Reducer</i>, The 6th International Conference on Advanced Concepts in Mechanical Engineering, Iași, 12-13.06.2014, Iași, publicată în <i>Applied Mechanics and Materials</i>, Vol. 658, (2014), pp. 183-188, doi: 10.4028/www.scientific.net/AMM.658.183; indexare SCOPUS;</p>                                                                                                             | 1 |
| 7 | <p><b>The international conference "Systems &amp; Structures" (SysStruc '13), Sept. 2013, "Eftimie Murgu" University of Reșița</b></p> <p>1. Cojocaru V., Korka Z.I., Micloșină C.O., <i>Influence of the Mesh Parameters on Stresses and Strains in FEM Analysis of a Gear Housing</i>, Lucrările conferinței "Systems &amp; Structures" (SysStruc '13), Sept. 2013, Reșița, Romania, publicate în „Analele Universității "Eftimie Murgu" Reșița, Fascicula Inginerie”, Anul XX (2013), nr.2, pp. 47-52, ISSN 1453-7397, 2013; indexare BDI;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 |
| 8 | <p><b>5th International Conference on Renewable Energy Sources (RES '11) , Iași, July 1-3, 2011</b></p> <p>1. Cojocaru V., Câmpian C.V, Frunzăverde D., Micloșină C.O., <i>Residual Stresses Analysis of Weld Overlays Coatings Used for the Repairs at Kaplan Turbine Runner Blades Areas Damaged by Cavitation Erosion</i>, „Recent Researches in Environment, Energy Planning and Pollution”, Proceedings of the 5<sup>th</sup> International Conference on Renewable Energy Sources (RES '11) , Iași, July 1-3, 2011, pp. 225-229, ISSN 978-1-61804-012-1; indexare SCOPUS;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 |
| 9 | <p><b>The international conference "Systems &amp; Structures" (SysStruc '11), 16-17 September 2011, "Eftimie Murgu" University of Reșița</b></p> <p>1. Cojocaru V., Câmpian C.V., Micloșină C.O., <i>Experimental Analysis of Residual Stresses in Samples of Austenitic Stainless Steel Welded on Martensitic Stainless Steel Used for Kaplan Blades Repairs</i>, Lucrările conferinței “<b>Systems &amp; Structures</b>” (SysStruc '11), 16-17 September 2011, Reșița, publicate în „Analele Universității "Eftimie Murgu" Reșița, Romania, Fascicula Inginerie”, Anul XVIII (2011), nr.1, pp. 161-166, ISSN 1453-7397, 2011; indexare BDI;</p> <p>2. Cojocaru V., Câmpian C.V., Balint D., <i>Numerical Analysis of Flow on Kaplan Turbine Runner Blades Anticavitation Lip with Modified Hydrodynamic Profile</i>, Lucrările conferinței “Systems &amp; Structures” (SysStruc '11), 16-17 September 2011, Reșița, Romania, publicate în „Analele Universității "Eftimie Murgu" Reșița, Fascicula Inginerie”, Anul XVIII (2011), nr.1, pp. 229-234, ISSN 1453-7397, 2011; indexare BDI;</p> | 1 |

|                                   |                                                                                                                                                                                                                                                                                                                                                                              |           |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                   | <b>The 6th International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '10), Timisoara, 21-23 oct. 2010, Politehnica University of Timisoara</b>                                                                                                                                                                                          |           |
| 10                                | Frunzăverde D., Câmpian C.V., Cojocaru V., Marginean G., Baran M., Ciubotariu R., <i>Influence of welded layers thickness on the cavitation erosion resistance</i> , Proceedings of 6th International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '10), Timisoara, 21-23 oct. 2010, pp. 316-320, ISSN 1792-5924, 2010; indexare SCOPUS; | 1         |
|                                   | <b>The 4th International Conference on Robotics, „Robotics 2008”, Braşov, 13-14 noiembrie 2008, Universitatea Transilvania din Brasov</b>                                                                                                                                                                                                                                    |           |
| 11                                | Cojocaru V., Micloşină C.O., Study regarding the possibilities to improve the mobile robots propulsion systems, Lucrarile conferintei internationale „Robotics 2008”, Braşov, 13-14 noiembrie 2008, publicate in „Bulletin of the Transilvania University of Brasov”, Vol 15, seria A, 2008, pp. 509-512, ISSN 1223-963, ISBN 978-973-598-387-1, 2008;                       | 1         |
|                                   | <b>The 3rd International Conference on Robotics, ROBOTICA 20006, 7th-9th September 2006, „GH. ASACHI” TECHNICAL UNIVERSITY OF IASI</b>                                                                                                                                                                                                                                       |           |
| 12                                | Cojocaru V., Classification of Propulsion systems for Mobile Robots, Proceedings of ROBOTICA 2006, The 3rd International Conference on Robotics, 7th-9th September, Iaşi, Buletinul Institutului Politehnic din Iaşi, ISSN 1011-2855, Tomul LII (LVI), Fascicula 7B, Vol. I, Secţia Construcţii de Maşini, 2006, pp. 163-168.                                                | 1         |
| <b>Total punctaj indicator N5</b> |                                                                                                                                                                                                                                                                                                                                                                              | <b>12</b> |

**Subcategoria A3.3: Citări în publicații BDI [5] (se exclud autocitările)**

| Nr. Crt. | Lucrare                                                                                                                                                                                                                                                                                                                                                    | Articolul în care a fost citată lucrarea                                                                                                                                                                                                                                                                                                              | BDI a publicației | Citări CI | FI al publicației |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|-------------------|
| 1        | Ardeljan, D. D.; Frunzaverde, D.*; <b>Cojocaru, V.*</b> ; Turiac, R. R.; Bacescu, N.; Ciubotariu, C. R.; Marginean, G. The Impact of Elevated Printing Speeds and Filament Color on the Dimensional Precision and Tensile Properties of FDM-Printed PLA Specimens. <i>Polymers</i> 2025, 17 (15), 2090. DOI: 10.3390/polym17152090. WOS: 001548741800001.  | Calori, I. R.; Guimaraes, A. P. P.; Tedesco, A. C. 3D Printing in Theranostic Applications. <i>Advanced Drug Delivery Reviews</i> 2026, 228, 115733. DOI: 10.1016/j.addr.2025.115733. WOS: 001625137900001.                                                                                                                                           | WOS               | 1         | 21                |
|          |                                                                                                                                                                                                                                                                                                                                                            | Singhal, D.; Christakopoulos, F.; Brunel, L. G.; Borkar, S.; Doulames, V. M.; Mozipo, E. A. T.; Myung, D.; Fuller, G. G.; Heilshorn, S. C. Dual-Oriented Collagen Fibers to Guide Cell Alignment in 3D-Printed Constructs. <i>Acta Biomaterialia</i> 2026, 209, 167–182. DOI: 10.1016/j.actbio.2025.11.013. WOS: 001643511600001.                     | WOS               | 1         | 10.4              |
|          |                                                                                                                                                                                                                                                                                                                                                            | Zisopol, D. G.; Minescu, M.; Iacob, D. V. Evaluation and Optimization of Thermoplastic Extrusion Parameters to Improve the Dimensional Accuracy of Additively Manufactured Parts Made of PETG, Recycled PETG, ASA, and Recycled ASA. <i>Polymers</i> 2026, 18 (5), No. 573. DOI: 10.3390/polym18050573. WOS: 001713534500001.                         | WOS               | 1         | 5.8               |
|          |                                                                                                                                                                                                                                                                                                                                                            | Medrut, A. A.; Linul, E. Process-Structure Relationships Governing Dimensional Accuracy in Material-Extrusion-Printed PLA-Based Composites. <i>Polymers</i> 2026, 18 (7), No. 818. DOI: 10.3390/polym18070818. WOS: 001739354600001.                                                                                                                  | WOS               | 1         | 5.8               |
|          |                                                                                                                                                                                                                                                                                                                                                            | Gamboa, C. B.; García, F. B.; Martín-Campos, J.; Martín-Béjar, S. Analysis of Geometric Deviations in Material Extrusion Additive Manufacturing Through Neural Network Optimisation. <i>Appl. Sci.</i> 2026, 16 (11), No. 5263. DOI: 10.3390/app16115263. WOS: 001789722500001.                                                                       | WOS               | 1         | 2.9               |
| 2        | <b>Cojocaru, V.</b> ; Turiac, R. R.; Frunzaverde, D.; Trisca, G.; Bacescu, N.; Marginean, G. Effect of the Printing Scenario on the Dimensional Accuracy and the Tensile Strength of Different Colored PLA Specimens Produced by Fused Deposition Modeling. <i>Applied Sciences</i> , 2024, 14 (17), 7642. DOI: 10.3390/app14177642. WOS: 001311103000001. | Kalman, O.; Husar, J.; Lazoik, P.; Fejko, P. Surface Quality Assessment Using a Multispectral Camera Focusing on Accuracy and Color Variations of Printed Parts Made with FDM Technology. <i>MM Sci. J.</i> 2025, 2025, 8427–8435. DOI: 10.17973/MMSJ.2025_06_2025054. WOS: 001500270000001.                                                          | WOS               | 1         | 0.6               |
|          |                                                                                                                                                                                                                                                                                                                                                            | Medrut, A. A.; Linul, E. Process-Structure Relationships Governing Dimensional Accuracy in Material-Extrusion-Printed PLA-Based Composites. <i>Polymers</i> 2026, 18 (7), No. 818. DOI: 10.3390/polym18070818. WOS: 001739354600001.                                                                                                                  | WOS               | 1         | 5.8               |
|          |                                                                                                                                                                                                                                                                                                                                                            | Shanto, T. A.; Ahmed, R.; Patel, P.; Zulqernine, M. J.; Chen, V. C. R.; Jain, A.; Taylor, R. M. In-Situ Annealing and Thermal-Morphological Evolution During Extrusion-Based Additive Manufacturing. <i>J. Manuf. Process.</i> 2026, 170, 303–318. DOI: 10.1016/j.jmapro.2026.05.005. WOS: 001772936900001.                                           | WOS               | 1         | 7.8               |
| 3        | Timofte, S.; Miclosina, C.-O.; <b>Cojocaru, V.</b> ; Geroacs, A.; Korka, Z.-I. Inertial Propulsion of a Mobile Platform Driven by Two Eccentric Bodies. <i>Applied Sciences-Basel</i> 2023, 13 (17), 9511. DOI: 10.3390/app13179511. WOS: 001063642600001.                                                                                                 | Korendiy, V.; Kachur, O.; Lanets, O.; Predko, R. Analysis of Power Consumption of a Wheeled Robot Actuated by a Centrifugal Vibration Exciter. <i>Advanced Manufacturing Processes VI, Interpartner-2024 (Lecture Notes in Mechanical Engineering)</i> 2025, 42–53. DOI: 10.1007/978-3-031-82746-4_4. WOS: 001463177700004.                           | WOS               | 1         |                   |
|          |                                                                                                                                                                                                                                                                                                                                                            | Starosta, R.; Fritzkowski, P. Inertial Forces and Friction in Propulsion of a Rigid Body. <i>Applied Sciences-Basel</i> 2025, 15 (2), 517. DOI: 10.3390/app15020517. WOS: 001403980400001.                                                                                                                                                            | WOS               | 1         | 2.9               |
|          |                                                                                                                                                                                                                                                                                                                                                            | Provatidis, C. G. Inertial Propulsion Devices: A Review. <i>Eng</i> 2024, 5 (2), 851–880. DOI: 10.3390/eng5020046. WOS: 001256240900001.                                                                                                                                                                                                              | WOS               | 1         | 3.5               |
| 4        | Frunzaverde, D.; <b>Cojocaru, V.*</b> ; Bacescu, N.; Ciubotariu, C.-R.; Miclosina, C.-O.; Turiac, R. R.; Marginean, G. The Influence of the Layer Height and the Filament Color on the Dimensional Accuracy and the Tensile Strength of FDM-Printed PLA Specimens. <i>Polymers</i> 2023, 15 (10), 2377. DOI: 10.3390/polym15102377. WOS: 000997089300001.  | Zhang, Z. S.; Hu, C.; Qin, Q. H. The effect of cooling fan rates on fused deposition modeling 3D printing of polylactic acid and short carbon fibers-reinforced polylactic acid composites. <i>PROGRESS IN ADDITIVE MANUFACTURING</i> 2026, ASAP. DOI: 10.1007/s40964-026-01798-2. WOS: 001796359300001.                                              | WOS               | 1         | 5.2               |
|          |                                                                                                                                                                                                                                                                                                                                                            | Abbasi, T.; Nazim, M.; Khan, H. A.; Khan, K.; Ali, H. Q.; Qadri, M. N. M. Extrusion-based additive manufacturing of SS 316 L: current capabilities, process-structure-property relationships and defect control. <i>INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</i> 2026, ASAP. DOI: 10.1007/s00170-026-18406-w. WOS: 001782349100001. | WOS               | 1         | 3.7               |

|                                                                                                                                                                                                                                                                                                                                                                                                                |     |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Almeida, M. C.; Barbosa, F. T. A.; Oliveira, L. G.; Coelho, L. M.; Peruchi, R. S. Multi-objective optimization of sustainable performance in fused filament fabrication. <i>COMPUTERS &amp; INDUSTRIAL ENGINEERING</i> 2026, 216, 112001. DOI: 10.1016/j.cie.2026.112001. WOS: 001737506500001.                                                                                                                | WOS | 1 | 7.3 |
| Crupano, W.; Velázquez-Corral, E.; Cisa, I.; Adrover-Monserrat, B.; Llumà, J.; Travieso-Rodriguez, J. A. Comparative Analysis of Surface Roughness and Geometric Tolerances in Material Extrusion: CPE versus TPU. <i>MACROMOLECULAR MATERIALS AND ENGINEERING</i> 2026, 311 (5), e70221. DOI: 10.1002/mame.70221. WOS: 001767959300001.                                                                       | WOS | 1 | 5.2 |
| Hanzelic, B.; Necemer, B.; Glodez, S.; Harih, G. Experimental and Numerical Thermo-Mechanical Characterization of Polylactic Acid Fabricated by Fused Filament Fabrication. <i>POLYMER ENGINEERING AND SCIENCE</i> 2026, ASAP. DOI: 10.1002/pen.70610. WOS: 001766943600001.                                                                                                                                   | WOS | 1 | 3.6 |
| Nagarjun, J.; Saravanakumar, N.; Kumaran, S. T.; Dilip, A. A.; Balasuadhakar, A. Empirical study and machine learning prediction of tensile strength in 3D printed eco-friendly polylactic acid. <i>PROGRESS IN RUBBER PLASTICS AND RECYCLING TECHNOLOGY</i> 2026, 42 (2), 234–256. DOI: 10.1177/14777606251316030. WOS: 001400932600001.                                                                      | WOS | 1 | 2.1 |
| Ng, K. Y.; Muhammad, N.; Noor, S. N. F. M.; Abd Rahim, S. Z.; Saleh, M. S.; Muhammad, N. A.; Ahmad, A. H.; Muduli, K. The effects of material extrusion (MEX) process parameters on dimensional aspects of polycaprolactone for coronary stent applications. <i>INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</i> 2026, ASAP. DOI: 10.1007/s00170-026-18050-4. WOS: 001741464500001.              | WOS | 1 | 3.7 |
| Ghamsari, A.; Pircheraghi, G.; Ghasemkhani, A.; Abadi, H. N. B.; Mehrabadi, N. R. Investigation of mutual effects of design-related process parameters and heat treatment on the mechanical properties of additive-manufactured polylactic acid. <i>NEXT MATERIALS</i> 2026, 12, 101888. DOI: 10.1016/j.nxmte.2026.101888. WOS: 001741165700001.                                                               | WOS | 1 | 4.7 |
| Anachebe, E.; Alsaleh, N. A.; Hassanin, H.; El-Sayed, M. A.; Elfar, A. A.; Essa, K. Effects of UV-Thermal Exposure Sequence on the Compressive Performance of FDM-Printed Polymers. <i>POLYMER ENGINEERING AND SCIENCE</i> 2026, 66 (6), 4107–4126. DOI: 10.1002/pen.70480. WOS: 001733847500001.                                                                                                              | WOS | 1 | 3.6 |
| Medrut, A. A.; Linul, E. Process-Structure Relationships Governing Dimensional Accuracy in Material-Extrusion-Printed PLA-Based Composites. <i>POLYMERS</i> 2026, 18 (7), 818. DOI: 10.3390/polym18070818. WOS: 001739354600001.                                                                                                                                                                               | WOS | 1 | 5.8 |
| de Melo, G. A. P.; Barbosa, J. M. A.; Carrasco, J. A. P.; Holanda, A. C. C.; de Amorim, W. F., Jr; Silva, AA; de Lima, A. G. B. Analysis of the effects of FDM printing parameters on mechanical properties of parts manufactured with a new type of PLA. <i>INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</i> 2026, 143 (3-4), 2247–2267. DOI: 10.1007/s00170-026-17508-9. WOS: 001696882200001. | WOS | 1 | 3.7 |
| Rabbaje, F.; Nimbona, F.; Taleb, A. A. A.; Benbourass, Y.; Larbi, L. Parametric simulation based FDM printed PLA gears and process parameters effects on mechanical performance. <i>INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</i> 2026, 143 (3-4), 1621–1634. DOI: 10.1007/s00170-026-17671-z. WOS: 001693685100001.                                                                          | WOS | 1 | 3.7 |
| Gamba, D. D.; Talmazov, G.; Bagratuni, M.; Rothlauf, S.; Bohner, L.; Schmidt, F.; Sesma, N.; Pieralli, S. Using material extrusion 3D printing for static computer-assisted implant surgery: An in vitro accuracy study. <i>JOURNAL OF DENTISTRY</i> 2026, 166, 106314. DOI: 10.1016/j.jdent.2025.106314. WOS: 001679214400001.                                                                                | WOS | 1 | 5.8 |

|                                                                                                                                                                                                                                                                                                                                                                                                                        |     |   |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Pugliese, R; Saheb, MAM; Cantella, S; Badini, S; Bollati, C; Lammi, C; Graziosi, S. Upcycling potential of the material extrusion process: a focus on the fused deposition modeling and beyond. <i>MATERIALS &amp; DESIGN</i> 2026, 262, 115408. DOI: 10.1016/j.matdes.2025.115408. WOS: 001671243100001                                                                                                               | WOS | 1 | 8.2 |
| Buss, C; Reci, F; Hribernig, T; Steininger, S. Experimental Investigation into the Influence of Infill Density, Print Pattern, and Built-Up Direction on the Flexural Strength of FFF-Manufactured PLA Components. <i>JOURNAL OF MANUFACTURING AND MATERIALS PROCESSING</i> 2026, 10 (1), 21. DOI: 10.3390/jmmp10010021. WOS: 001670618400001                                                                          | WOS | 1 | 4   |
| Ishfaq, K; Harris, M; Murugesan, SK; Habib, MS; Ullah, M; Anwar, S; Alfaify, AY. Processing-property relationships in 3D printed PLA/graphene composites for synergistic enhancement of mechanical strength and electrical conductivity. <i>JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&amp;T</i> 2026, 40, 2543-2558. DOI: 10.1016/j.jmrt.2025.12.269. WOS: 001662666900001                                      | WOS | 1 | 7.3 |
| Duong, L.; Nga, P. T. H.; Tai, L. M. Effect of technical parameters on polylactic acid shrinkage during 3D printing. <i>ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</i> 2026, 20 (6), 356–367. DOI: 10.12913/22998624/218336. WOS: 001758682700026.                                                                                                                                                            | WOS | 1 | 1.5 |
| Castorina, S; Puleo, S; Crescimanno, C; Pezzino, S. Advanced 3D Modeling and Bioprinting of Human Anatomical Structures: A Novel Approach for Medical Education Enhancement. <i>APPLIED SCIENCES-BASEL</i> 2025, 16 (1), 5. DOI: 10.3390/app16010005. WOS: 001657162900001.                                                                                                                                            | WOS | 1 | 2.9 |
| Tao, Q; Fu, B; Zhong, F. A Review of Challenges and Future Perspectives for High-Speed Material Extrusion Technology. <i>APPLIED SCIENCES-BASEL</i> 2025, 15 (22), 12176. DOI: 10.3390/app152212176. WOS: 001623445300001.                                                                                                                                                                                             | WOS | 1 | 2.9 |
| Strugova, D; Sultana, SMN; Leclair, JP; David, E; Demarquette, NR; Paserin, V; Hof, LA. Polymer blends as a tool to improve mechanical properties and printability of metal-filled polymer filaments for material extrusion additive manufacturing in the context of sustainable manufacturing. <i>JOURNAL OF MANUFACTURING PROCESSES</i> 2025, 156, 611-626. DOI: 10.1016/j.jmapro.2025.11.002. WOS: 001617823800001. | WOS | 1 | 7.8 |
| Martín-Béjar, S; García, FB; López-Fernández, JAA; Gamboa, CB. Process parameter influence on geometric accuracy of Nylon 12 parts manufactured by FFF. <i>RAPID PROTOTYPING JOURNAL</i> 2026, 32 (1), 123-141. DOI: 10.1108/RPJ-03-2025-0101. WOS: 001608956800001. (p. 2)                                                                                                                                            | WOS | 1 | 3.3 |
| Özel, B; Bakirci, A; Turan, MK. Comprehensive investigation of the mechanical performance of the direct transition functional graded materials. <i>RAPID PROTOTYPING JOURNAL</i> 2025, DOI: 10.1108/RPJ-08-2025-0414. WOS: 001605439400001.                                                                                                                                                                            | WOS | 1 | 3.3 |
| Madhusudan, M.; Shanmuganatan, S. P.; Hindushree, K. S.; Jain, C.; Shihabuddin, S.; Jain, P. Performance Assessment of Process Parameters and Mechanical Characterization of Additively Fabricated PLA and CF-PLA. <i>JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE</i> 2026, 35 (14), 13610–13632. DOI: 10.1007/s11665-025-12640-1. WOS: 001606648300001.                                                          | WOS | 1 | 2.6 |
| Akyol, M; Anaç, N; Koçar, O; Baysal, E; Akgül, I. Investigation of the Mechanical and Optical Properties of ABS Plus Materials in Different Colors After Aging. <i>POLYMERS</i> 2025, 17 (21), 2940. DOI: 10.3390/polym17212940. WOS: 001612575600001.                                                                                                                                                                 | WOS | 1 | 5.8 |
| Sudin, MN; Saleman, AR; Daud, NM; Zakaria, KA; Munir, FA. Experimental Analysis of Color Influence on Optimized FDM Parameters for PLA using the Taguchi Method. <i>JURNAL KEJURUTERAAN</i> 2025, 37 (6), 2739-2748. DOI: 10.17576/jkukm-2025-37(6)-13. WOS: 001617203900012.                                                                                                                                          | WOS | 1 | 0.8 |

|                                                                                                                                                                                                                                                                                                                                                                           |     |   |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Tian, GQ; Wu, K; Gao, SS; Zeng, G; Liu, JW. Experimental investigations of process parameters on dimensional accuracy for FDM printed CF/PETG parts. <i>POLYMERS &amp; POLYMER COMPOSITES</i> 2025, 33, 09673911251379825. DOI: 10.1177/09673911251379825. WOS: 001570794800001.                                                                                          | WOS | 1 | 2.3 |
| Abd El-baky, MA; Abd El-Halim, MF; Allah, MMA. Experimental investigation of material Synergy: Influence of 3D printing parameters on the lateral crash performance of cellular structures stuffed in aluminum tubes. <i>COMPOSITES PART B-ENGINEERING</i> 2025, 307, 112902. DOI: 10.1016/j.compositesb.2025.112902. WOS: 001551464800001.                               | WOS | 1 | 14  |
| Seid Ahmed, Y; Hassanin, H; Nazir, A; Khan, S. A machine learning-integrated framework for mechanical property prediction of FDM-printed PLA. <i>INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</i> 2025, 139 (11-12), 5791-5817. DOI: 10.1007/s00170-025-16232-0. WOS: 001546008300001.                                                                      | WOS | 1 | 3.7 |
| Rentería-Baltíérrez, FY; Puente-Córdova, JG; Hernández-Ramos, JM; Aguilar-Villarreal, AY; Mohamed-Noriega, N. Effect of 3D Printing Parameters on the Viscoelastic Behavior of Acrylonitrile Butadiene Styrene: Fractional Calculus Modeling and Statistical Optimization. <i>POLYMERS</i> 2025, 17 (12), 1650. DOI: 10.3390/polym17121650. WOS: 001514945600001.         | WOS | 1 | 5.8 |
| Naresh, D; Kotnala, P. Design and investigation of the influence of process parameters on material-extruded (MEX) PLA: porosity shape and size, tensile and flexural strength. <i>PROGRESS IN ADDITIVE MANUFACTURING</i> 2025, 10 (11), 9397-9421. DOI: 10.1007/s40964-025-01168-4. WOS: 001497100000001.                                                                 | WOS | 1 | 5.2 |
| Hasanzadeh, R. Optimization of energy absorption of additively manufactured polyamide/microcarbon fiber polymeric composites in 3D printing using Taguchi method. <i>POLYMER ENGINEERING AND SCIENCE</i> 2025, 65 (7), 3639-3649. DOI: 10.1002/pen.27238. WOS: 001487621500001.                                                                                           | WOS | 1 | 3.6 |
| García-Vilana, S; Adrover-Monserrat, B; Sánchez-Molina, D; Llumà, J; Jerez-Mesa, R; Travieso-Rodríguez, JA; Martínez-González, E. Using acoustic emission to assess stiffness loss in thermoplastics processed through additive manufacturing. <i>PROGRESS IN ADDITIVE MANUFACTURING</i> 2025, 10 (10), 8053-8063. DOI: 10.1007/s40964-025-01092-7. WOS: 001464438300001. | WOS | 1 | 5.2 |
| Paul, DLB; Susila, PA; Karthick, M. Exploring Manufacturing Techniques in Bioceramic Scaffold Fabrication with a Focus on DIW 3D Printing for Tissue Engineering Applications. <i>ANNALS OF BIOMEDICAL ENGINEERING</i> 2025, 53 (7), 1525-1542. DOI: 10.1007/s10439-025-03722-1. WOS: 001459040400001.                                                                    | WOS | 1 | 5.2 |
| Allah, MMA; Abd El-Halim, MF; Sebaey, TA; Mahmoud, SF; Saleh, DI; Abd El-baky, MA. Multi-criteria decision-making for optimizing crashworthiness of 3D-printed PETG-CF lightweight structures: Influence of printing parameters. <i>POLYMER COMPOSITES</i> 2025, 46, S940-S963. DOI: 10.1002/pc.29826. WOS: 001450556200001.                                              | WOS | 1 | 4.9 |
| He, YY; Liu, Y; Zhang, YY; Zhou, ZJ; Liu, YQ; Wang, Y; Luo, K; Yan, XX; Cao, JW; Chen, ZW. Research progress in 3D printing of graphite and its composite materials. <i>CAILIAO GONGCHENG-JOURNAL OF MATERIALS ENGINEERING</i> 2025, 53 (3), 35-43. DOI: 10.11868/j.issn.1001-4381.2024.000087. WOS: 001457764400003.                                                     | WOS | 1 | 0.6 |
| Allah, MMA; Abd El-Halim, MF; Almuflih, AS; Mahmoud, SF; Saleh, DI; Abd El-baky, MA. Innovative, high-performance, and cost-effective hybrid composite materials for crashworthiness applications. <i>POLYMER COMPOSITES</i> 2025, 46 (13), 11832-11853. DOI: 10.1002/pc.29714. WOS: 001434574400001.                                                                     | WOS | 1 | 4.9 |



|                                                                                                                                                                                                                                                                                                                                                                 |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Bharat, N; Kumar, V; Mishra, V; Veeman, D; Vellaisamy, M. Influence of 3D Printing FDM Process Parameters on Compressive Strength of PLA/Carbon Fiber Composites: ANOVA and Backpropagation Neural Network Approach. <i>JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE</i> 2025, 34 (18), 20830-20843. DOI: 10.1007/s11665-025-10783-9. WOS: 001417803500001. | WOS | 1 | 2.6 |
| Bolat, Ç; Üresin, B; Gene, TE; Çebi, A; Aslan, MT. Effect of liquid media, waiting time, and layer height on drop-weight impact performance of polylactic acid produced by additive manufacturing. <i>JOURNAL OF POLYMER RESEARCH</i> 2025, 32 (1), 28. DOI: 10.1007/s10965-025-04259-6. WOS: 001397928600002.                                                  | WOS | 1 | 3.5 |
| Petrascu, RM; Racz, SG; Avrigean, E. EVALUATION OF SHAPE TRANSFORMATION IN 4D PRINTED POLYLACTIC ACID USING COPPER WIRES. <i>JOURNAL OF THEORETICAL AND APPLIED MECHANICS</i> 2025, 63 (3), 525-534. DOI: 10.15632/jtam-pl/202293. WOS: 001541005700007.                                                                                                        | WOS | 1 | 0.9 |
| Shabeeb, AH; Abdulwahhab, AB; Ismael, HS; Ghazi, SK. Optimization of fused deposition modeling parameters to enhance tensile strength and surface roughness of polyethylene terephthalate glycol. <i>ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</i> 2025, 19 (8), 345-358. DOI: 10.12913/22998624/205716. WOS: 001531272700025.                        | WOS | 1 | 1.5 |
| Abdulridha, HH; Obaeed, NH; Jaber, AS. Optimization of fused deposition modeling parameters for polyethylene terephthalate glycol flexural strength and dimensional accuracy. <i>ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH</i>                                                                                                                                | WOS | 1 | 1.5 |
| Balan, GS; Raj, SA. Impact load bearing and energy absorption in sandwich polymer composites: Projectile versus shock loadings. <i>RESULTS IN ENGINEERING</i> 2025, 25, 103815. DOI: 10.1016/j.rineng.2024.103815. WOS: 001403022700001.                                                                                                                        | WOS | 1 | 9.4 |
| Waly, C; Schulnig, S; Arbeiter, F. Strain rate-dependent failure modes of material extrusion-based additively manufactured PETG: A study on crack deflection and penetration. <i>THEORETICAL AND APPLIED FRACTURE MECHANICS</i> 2025, 136, 104834. DOI: 10.1016/j.tafmec.2024.104834. WOS: 001394460300001.                                                     | WOS | 1 | 6   |
| Allah, MMA; Abd El-Halim, MF; Abbas, MA; Almuflih, AS; Saleh, DI; Abd El-baky, MA. Discovering the Impact of Printing Parameters on the Crashworthiness Performance of 3D-Printed Cellular Structures. <i>FIBERS AND POLYMERS</i> 2025, 26 (1), 297-315. DOI: 10.1007/s12221-024-00799-8. WOS: 001370717500001.                                                 | WOS | 1 | 3.1 |
| Çerlek,Ö; Han, K; Akin, Y; Seçgin,Ö; Investigation of Parameters Affecting the Tensile Strength of Silicone-Filled 3D Printed ABS Products. <i>JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE</i> 2025, 34 (11), 9627-9636. DOI: 10.1007/s11665-024-10498-3. WOS: 001367936400001.                                                                            | WOS | 1 | 2.6 |
| Böhm, M; Buss, C. Experimental Investigation into the Influence of Filament Layer Arrangement on the Tensile Strength of FFF-Manufactured Components. <i>JOURNAL OF MANUFACTURING AND MATERIALS PROCESSING</i> 2024, 8 (6), 295. DOI: 10.3390/jmmp8060295. WOS: 001387031300001.                                                                                | WOS | 1 | 4   |
| Kocar, O; Anaç, N; Baysal, E; Parmaksiz, F; Akgül, I. Investigation of Mechanical Properties and Color Changes of 3D-Printed Parts with Different Infill Ratios and Colors After Aging. <i>MATERIALS</i> 2024, 17 (23), 5908. DOI: 10.3390/ma17235908. WOS: 001376372100001.                                                                                    | WOS | 1 | 3.7 |
| Megersa, GK; Sitek, W; Nowak, AJ; Tomasic, N. Investigation of the Influence of Fused Deposition Modeling 3D Printing Process Parameters on Tensile Properties of Polylactic Acid Parts Using the Taguchi Method. <i>MATERIALS</i> 2024, 17 (23), 5951. DOI: 10.3390/ma17235951. WOS: 001376410200001.                                                          | WOS | 1 | 3.7 |

|                                                                                                                                                                                                                                                                                                                                                           |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Palanisamy, S; Karuppiyah, G; Kumar, P; Dharmalingam, S; Mubarak, S; Santulli, C; Ayirilmis, N; Karumuri, S. Effect of Process Parameters and Material Selection on the Quality of 3D Printed Products by Fused Deposition Modeling (FDM): A Review. <i>ADVANCES IN POLYMER TECHNOLOGY</i> 2024, 3480281. DOI: 10.1155/adv/3480281. WOS: 001371781500001. | WOS | 1 | 3.7 |
| Fredericks, CM; Kunihiro, JKI; Zheng, HJ; Wagh, NR; Kamkar, M. Chemical enhancements and advanced manufacturing methods of Poly (Lactic acid) for tissue engineering applications. <i>POLYMER</i> 2024, 313, 127691. DOI: 10.1016/j.polymer.2024.127691. WOS: 001347357000001.                                                                            | WOS | 1 | 5.1 |
| Daneshdoost, N; Peloquin, J; Gall, K. Structure-performance relationships of multi-material jetting polymeric composites designed at the voxel scale: Distribution and composition effects. <i>JOURNAL OF MANUFACTURING PROCESSES</i> 2024, 131, 2118-2132. DOI: 10.1016/j.jmapro.2024.10.009. WOS: 001338683500001.                                      | WOS | 1 | 7.8 |
| Kocar, O; Anac, N; Baysal, E. A New Approach in Part Design for Friction Stir Welding of 3D-Printed Parts with Different Infill Ratios and Colors. <i>POLYMERS</i> 2024, 16 (13), 1790. DOI: 10.3390/polym16131790. WOS: 001269452800001.                                                                                                                 | WOS | 1 | 5.8 |
| Besliu-Bancescu, I; Tamasag, I. Heat Treatment Effect on Some Mechanical Properties of FDM-Manufactured PCL Wood-Based Biopolymer. <i>ADVANCES IN POLYMER TECHNOLOGY</i> 2024, 7432507. DOI: 10.1155/2024/7432507. WOS: 001258096800001.                                                                                                                  | WOS | 1 | 3.7 |
| Zisopol, DG; Minescu, M; Iacob, DV. A Study on the Influence of FDM Parameters on the Tensile Behavior of Samples made of PET-G. <i>ENGINEERING TECHNOLOGY &amp; APPLIED SCIENCE RESEARCH</i> 2024, 14 (2), 13487-13492. DOI: 10.48084/etasr.6949. WOS: 001198238800038.                                                                                  | WOS | 1 |     |
| Mercado-Colmenero, JM; Martin-Doñate, C. A novel geometric predictive algorithm for assessing compressive elastic modulus in MEX additive processes, based on part nonlinearities and layers stiffness, validated with PETG and PLA materials. <i>POLYMER TESTING</i> 2024, 133, 108389. DOI: 10.1016/j.polymertesting.2024.108389. WOS: 001219004000001. | WOS | 1 | 6.4 |
| Er, AO; Aydinli, OM. Investigation of mechanical and physical properties of PLA and steel-added PLA filament materials used in melted filament manufacturing method. <i>JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY</i> 2024, 39 (2). DOI: 10.17341/gazimmfd.1276420. WOS: 001147255200014.                                 | WOS | 1 | 1   |
| Naresh, D; Raju, R; Parveen, S. Design and development of alternate layer printing method to reduce the porosity in FDM printing process. <i>INTERNATIONAL JOURNAL OF INTERACTIVE DESIGN AND MANUFACTURING - IJIDEM</i> 2024, 18 (2), 1075-1085. DOI: 10.1007/s12008-023-01624-x. WOS: 001122503700001.                                                   | WOS | 1 | 2.8 |
| Kuo, CC; Xie, ZY; Ke, JZ; Chen, WH; Huang, SH. A simple method for improving the tensile strength of fused filament fabrication part. <i>INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</i> 2023, 129 (7-8), 3513-3521. DOI: 10.1007/s00170-023-12565-w. WOS: 001099659500002.                                                                | WOS | 1 | 3.7 |
| Sultana, J; Rahman, MM; Wang, YE; Ahmed, A; Xiaohu, C. Influences of 3D printing parameters on the mechanical properties of wood PLA filament: an experimental analysis by Taguchi method. <i>PROGRESS IN ADDITIVE MANUFACTURING</i> 2024, 9 (4), 1239-1251. DOI: 10.1007/s40964-023-00516-6. WOS: 001084339800001.                                       | WOS | 1 | 5.2 |

|   |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                              |     |   |     |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
|   |                                                                                                                                                                                                                                                        | Shashikumar, S; Sreekanth, MS. Investigation on mechanical properties of polyamide 6 and carbon fiber reinforced composite manufactured by fused deposition modeling technique. <i>JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS</i> 2024, 37 (5), 1730-1747. DOI: 10.1177/08927057231200006. WOS: 001076381500001.                                                           | WOS | 1 | 4   |
|   |                                                                                                                                                                                                                                                        | Buj-Corral, I; Sivatte-Adroer, M. An Experimental Investigation about the Dimensional Accuracy and the Porosity of Copper-Filled PLA Fused Filament Fabrication Parts. <i>METALS</i> 2023, 13 (9), 1608. DOI: 10.3390/met13091608. WOS: 001079181500001.                                                                                                                     | WOS | 1 | 3.1 |
| 5 | <b>Cojocaru, V.;</b> Frunzaverde, D.; Miclosina, C.-O. On the Behavior of Honeycomb, Grid and Triangular PLA Structures under Symmetric and Asymmetric Bending. <i>Micromachines</i> 2023, 14 (1), 120. DOI: 10.3390/mi14010120. WOS: 000927276600001. | Romanczuk-Ruszk, E.; Bolesta, L.; Lysik, D.; Horowicz, J.; Budzik, G.; Sztorch, B.; Przekop, R. E. Optimizing Infill Patterns for Enhanced Durability and Resilience in Direct Ink Writing-Additive Manufacturing of Silicone Elastomers. 3D Printing and Additive Manufacturing 2026. DOI: 10.1177/23297662261459248. WoS: 001792922900001.                                 | WOS | 1 | 2.5 |
|   |                                                                                                                                                                                                                                                        | Özmen, U.; Yavuz, M. E. Bending and Impact Performance of Hybrid Sandwich Composites with Different Cellular Core Geometries. <i>Fibers and Polymers</i> 2026. DOI: 10.1007/s12221-026-01467-9. WoS: 001791719200001.                                                                                                                                                        | WOS | 1 | 3.1 |
|   |                                                                                                                                                                                                                                                        | Solomon, T. D.; Santosh, S. Mimicking the Venus Flower Basket: Bio-Inspired 3D-Printed PLA Honeycomb-Grid Structures for Lightweight Energy Absorption. <i>Progress in Additive Manufacturing</i> 2026. DOI: 10.1007/s40964-026-01688-7. WoS: 001747107800001.                                                                                                               | WOS | 1 | 5.2 |
|   |                                                                                                                                                                                                                                                        | Kumaresan, R.; Pandurangan, M. T.; Kanny, K. Mechanical and Microstructural Behavior of FDM-Printed Hyper-PLA by Optimizing Process Parameters. <i>International Journal of Advanced Manufacturing Technology</i> 2026, 143 (5-6), 2677–2693. DOI: 10.1007/s00170-026-17686-6. WoS: 001698929000001.                                                                         | WOS | 1 | 3.7 |
|   |                                                                                                                                                                                                                                                        | O'Connor, L. The Mechanical Behavior of Dual TPU/Nylon 3D Printed Parts. <i>Journal of Applied Polymer Science</i> 2026, 143 (16), e70504. DOI: 10.1002/app.70504. WoS: 001678282700001.                                                                                                                                                                                     | WOS | 1 | 3.1 |
|   |                                                                                                                                                                                                                                                        | Israr, A.; Awan, Z. U. H.; Mushtaq, A. Analyzing the Impact of Process Parameters on the Compressive Strength of Polylactic Acid Parts Fabricated via Additive Manufacturing. <i>Iranian Journal of Chemistry &amp; Chemical Engineering-International English Edition</i> 2026, 45 (1), 64–77. DOI: 10.30492/ijcce.2025.2060543.7109. WoS: 001773519600001.                 | WOS | 1 | 1.2 |
|   |                                                                                                                                                                                                                                                        | Kizilkay, U.; Aslantas, K.; Özkaya, E.; Çicek, A. Effect of Geometric Parameters on the Vibration Performance of Polymer Honeycomb Structures Produced by Additive Manufacturing. <i>Journal of the Faculty of Engineering and Architecture of Gazi University</i> 2026, 41 (1), 495–506. DOI: 10.17341/gazimmfd.1685046. WoS: 001734806100026.                              | WOS | 1 | 1   |
|   |                                                                                                                                                                                                                                                        | Saeed, G.; Abdo, G. M.; Gad, S. I.; Ibrahim, A. Investigating the Effect of Infill Parameters on the Compressive Strength and Energy Absorption Properties of 3D-Printed Polylactic Acid (PLA) Material. <i>Journal of Materials Engineering and Performance</i> 2025. DOI: 10.1007/s11665-025-12913-9. WOS:001645258300001.                                                 | WOS | 1 | 2.6 |
|   |                                                                                                                                                                                                                                                        | Martínez-López, K. D. D.; Kú-Herrera, J. D.; Morales, G.; Cervantes-Uc, J. M.; May-Pat, A.; Ramírez-López, D. M. Optimizing interlayer adhesion of FFF-printed PEEK on an accessible platform via short-beam shear testing and response surface methodology. <i>Materials Today Communications</i> 2025, 49, 114076. DOI: 10.1016/j.mtcomm.2025.114076. WOS:001604061300001. | WOS | 1 | 4.9 |
|   |                                                                                                                                                                                                                                                        | Thirugnanasambandam, A.; Nallamuthu, R.; Rangappa, S. M.; Siengchin, S.; Kumar, V. V. Material Extrusion of the Poly(lactic acid)/HAp Nanocomposite Scaffold for Bone Tissue Applications: A Comprehensive Investigation. <i>ACS Omega</i> 2025, 10 (39), 44948–44959. DOI: 10.1021/acsomega.5c02055. WOS:001572370800001.                                                   | WOS | 1 | 5.2 |

|  |                                                                                                                                                                                                                                                                                                                                                                                           |     |   |     |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
|  | Wang, H. M.; Rhiana, F.; Shi, A. Q.; Lu, Z. Y.; Li, M. K.; Wang, T.; Nguyen, T. H.; Lin, A. Physics-Informed Graph Neural Networks: Predicting the composite mechanical behavior of clay-infilled concrete structures with morphed honeycomb configurations. <i>Engineering Structures</i> 2025, 343, 121267. DOI: 10.1016/j.engstruct.2025.121267. WOS:001568927600005.                  | WOS | 1 | 7.6 |
|  | Kati, H. D.; He, F. Y.; Khan, M.; Gökdag, H.; Alshammari, Y. L. A. Effect of Printing Parameters on the Dynamic Characteristics of Additively Manufactured ABS Beams: An Experimental Modal Analysis and Response Surface Methodology. <i>Polymers</i> 2025, 17 (12), 1615. DOI: 10.3390/polym17121615. WOS:001514890900001.                                                              | WOS | 1 | 5.8 |
|  | Poljacek, S. M.; Donevski, D.; Tomasegovic, T.; Brodnjak, U. V.; Leskovsek, M. Mechanical Properties of 3D-Printed PLA Structures Observed in Framework of Different Rotational Symmetry Orders in Infill Patterns. <i>Symmetry-Basel</i> 2025, 17 (3), 466. DOI: 10.3390/sym17030466. WOS:001453774800001.                                                                               | WOS | 1 | 2.2 |
|  | Kumar, A. P.; Kumar, M. D. B.; Sreekanth, P. S. R.; Sahu, S. K.; Ma, Q. J.; Hanon, M. M.; Aman, M. Experimental investigation on the transverse crushing performance of 3D printed polymer composite filled aluminium tubes. <i>Journal of the Mechanical Behavior of Materials</i> 2025, 34 (1), 20250091. DOI: 10.1515/jmbm-2025-0091. WOS:001638587200001.                             | WOS | 1 | 2.2 |
|  | Demir, M. Exploring bending behaviour of hybrid fabric-3D printed structures with infill and raster angle for functional applications. <i>Rapid Prototyping Journal</i> 2025, 31 (4), 842–856. DOI: 10.1108/RPJ-06-2024-0257. WOS:001415108600001.                                                                                                                                        | WOS | 1 | 3.3 |
|  | Wang, H. M.; Tan, P. F. M.; Foo, Y. Z.; Owyong, S.; Lu, Z. Y.; Chen, H. T.; Nguyen, T. H.; Lin, A. Integrating graph neural networks with physics-informed loss function for mechanical response prediction of hollow concrete structures with morphed honeycomb configurations. <i>Materials &amp; Design</i> 2025, 251, 113659. DOI: 10.1016/j.matdes.2025.113659. WOS:001416805500001. | WOS | 1 | 8.2 |
|  | Lin, A.; Wang, H. M.; He, W.; Owyong, S.; Chen, H. T.; Nguyen, T. H. Bayesian enhanced graph neural networks: Refining design spaces for hollow concrete components with optimum mechanical performance. <i>Engineering Structures</i> 2025, 327, 119628. DOI: 10.1016/j.engstruct.2025.119628. WOS:001399760900001.                                                                      | WOS | 1 | 7.6 |
|  | Andrade, T. A. M.; da Silva, V. A.; Scheck, K.; Garay, T.; Sharma, R.; Willerth, S. M. 3D Bioprinting a Novel Skin Co-Culture Model Using Human Keratinocytes and Fibroblasts. <i>Journal of Biomedical Materials Research Part A</i> 2025, 113 (1). DOI: 10.1002/jbm.a.37831. WOS:001357222500001.                                                                                       | WOS | 1 | 3.8 |
|  | Eryildiz, M.; Kosa, E.; Akgun, I. C.; Yavuzer, B. Enhancing 3D-Printed PP-CF parts: A novel resin-filling technique for mechanical property optimization. <i>Journal of Thermoplastic Composite Materials</i> 2025, 38 (3), 878–892. DOI: 10.1177/08927057241259761. WOS:001242009000001.                                                                                                 | WOS | 1 | 4   |
|  | Tóth, C.; Virág, A. D.; Vas, L. M.; Kovács, N. K. Prediction and analysis of flexural stiffness for 3D-printed continuous fiber-reinforced composites with different matrix fill ratios and layer orders. <i>Polymer Testing</i> 2024, 135, 108459. DOI: 10.1016/j.polymertesting.2024.108459. WOS:001247520000001.                                                                       | WOS | 1 | 6.4 |
|  | Goh, X. Y.; Guo, K. T.; Nguyen, L. T.; Ong, R. H.; Duong, H. M. Fabrication and properties of polyethylene terephthalate (PET) aerogel composites from plastic bottle waste. <i>Materials Today Communications</i> 2023, 37, 107625. DOI: 10.1016/j.mtcomm.2023.107625. WOS:001111666400001.                                                                                              | WOS | 1 | 4.9 |

|   |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                      |     |   |     |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| 6 | <p>Frunzaverde, D.; <b>Cojocaru, V.*</b>; Ciubotariu, C.-R.; Miclosina, C.-O.; Ardeljan, D. D.; Ignat, E. F.; Marginean, G. The Influence of the Printing Temperature and the Filament Color on the Dimensional Accuracy, Tensile Strength, and Friction Performance of FFF-Printed PLA Specimens. <i>Polymers</i> 2022, 14 (10), 1978. DOI: 10.3390/polym14101978. WOS: 000803215300001.</p> | Gamboa, C. B.; García, FB.; Martín-Campos, J.; Martín-Béjar, S. Analysis of Geometric Deviations in Material Extrusion Additive Manufacturing Through Neural Network Optimisation. <i>Applied Sciences-Basel</i> 2026, 16 (11), No. 5263. DOI: 10.3390/app16115263                                                                                                   | WOS | 1 | 2.9 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Sherif, M.; Mekhiel, S.; Elmesalamy, A. S.; Mahmoud, H. Multi-objective Optimization of Material Extrusion Parameters to Balance Mechanical and Economic Performance. <i>Progress in Additive Manufacturing</i> 2026, 11 (6), 5973–6001. DOI: 10.1007/s40964-026-01681-0                                                                                             | WOS | 1 | 5.2 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Medrut, A. A.; Linul, E. Process-Structure Relationships Governing Dimensional Accuracy in Material-Extrusion-Printed PLA-Based Composites. <i>Polymers</i> 2026, 18 (7), No. 818. DOI: 10.3390/polym18070818                                                                                                                                                        | WOS | 1 | 5.8 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Zurnaci, E. Impact of Printing Parameters on the Surface Morphology and Thermal Stability of Sustainable FDM Filaments: A Taguchi-Based Factorial Design Study. <i>Applied Sciences-Basel</i> 2026, 16 (6), No. 2904. DOI: 10.3390/app16062904                                                                                                                       | WOS | 1 | 2.9 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Zhansitov, A.; Kurdanova, Z.; Shakhmurzova, K.; Slonov, A.; Khashirov, A.; Rzhetskaya, E.; Musov, K.; Tlupov, A.; Khashirova, S. Novel Low-Crystallinity Polyetheretherketone Copolymers for 3D Printing. <i>Polymers</i> 2026, 18 (5), No. 558. DOI: 10.3390/polym18050558                                                                                          | WOS | 1 | 5.8 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Scheuerlein, C.; Louka, F.; Chaganti, P.; Piccin, R. Effect of Radiation up to 30 MGy on Mechanical and Dielectric Properties of Polymers for Superconducting and Resistive Magnets. <i>Polymers</i> 2026, 18 (4), No. 448. DOI: 10.3390/polym18040448                                                                                                               | WOS | 1 | 5.8 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Ciobanu, R.; Rizescu, C.; Cobzac, C. I.; Rizescu, D.; Pascu, T. Study on the Utilization of Polylactic Acid as an Environmentally Sustainable Material in Gear Manufacturing. <i>Environmental Engineering and Management Journal</i> 2026, 25 (2), 397–406. DOI: 10.30638/eemj.2026.033                                                                             | WOS | 1 | 0.8 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Pacella, M.; Papa, A.; Papadia, G. Towards Intelligent Fused Filament Fabrication: Computational Verification of a Monitoring and Early-Warning Framework for Instability Mitigation. <i>Applied Sciences-Basel</i> 2026, 16 (1), 459. DOI: 10.3390/app16010459. WOS:001657151500001.                                                                                | WOS | 1 | 2.9 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Hartanti, L. P. S.; Ismail, R.; Jamari, J.; Bayuseno, A. P. A new approach of response surface-based goal programming model for additive manufacturing optimization in the biomedical field. <i>Cogent Engineering</i> 2025, 12 (1), 2524445. DOI: 10.1080/23311916.2025.2524445. WOS:001520465700001.                                                               | WOS | 1 | 2.7 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Hozdic, E.; Hozdic, E. Mechanical Parameters and Microstructural Evolution of FDM-Printed PLA and PLA plus CF Under Variable Infill Architecture and Lubricant Exposure. <i>Polymers</i> 2025, 18 (1), 72. DOI: 10.3390/polym18010072. WOS:001657299100001.                                                                                                          | WOS | 1 | 5.8 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Tan, M. R. D.; Sanserverino, A.; Rodriguez-Herrera, A.; Kumar, A.; Stewart, L. K.; Novelino, L. S. Yield and post-yield tensile behavior of 3D-printed PETG. <i>International Journal of Advanced Manufacturing Technology</i> 2026, 142 (3–4), 1649–1658. DOI: 10.1007/s00170-025-17204-0. WOS:001641973600001.                                                     | WOS | 1 | 3.7 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Chowdhury, D.; Lee, S. Foaming characterization of lightweight polylactic-acid filaments with various heating conditions to apply for additive manufacturing. <i>Fashion and Textiles</i> 2025, 12 (1), 36. DOI: 10.1186/s40691-025-00446-7. WOS:001629825300001.                                                                                                    | WOS | 1 | 3.7 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Kujawa, M. Sliding elements made from biodegradable plastic - friction and wear of poly(lactic acid) compared to polyamide 6. <i>Materials Science-Poland</i> 2025, 43 (4), 1–16. DOI: 10.2478/msp-2025-0039. WOS:001626236900001.                                                                                                                                   | WOS | 1 | 2.1 |
|   |                                                                                                                                                                                                                                                                                                                                                                                               | Gawel, A.; Setlak, K.; Szubartowski, D.; Mierzewski, D.; Liber-Knec, A. Ecological Composite Materials Based on Polylactide (PLA) and Organic Fillers: Coffee Grounds and Hen Eggshells Produced by the FDM Method: Mechanical, Thermal Properties, Stress Relaxation and Creep. <i>Materials</i> 2025, 18 (21), 4918. DOI: 10.3390/ma18214918. WOS:001612881100001. | WOS | 1 | 3.7 |

|                                                                                                                                                                                                                                                                                                                                                                                                |     |   |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Timofticiuc, I. A.; Grigore, A. G.; Tomescu, E. T.; Vlaicu, T. M.; Dragosloveanu, S.; Scheau, A. E.; Caruntu, A.; Dragosloveanu, C. D. M.; Badarau, I. A.; Didilescu, A. C.; Caruntu, C.; Scheau, C. Advances in 3D-Printed Drug Delivery and Screening Platforms for Bone Disease Therapy. <i>Pharmaceutics</i> 2025, 17 (11), 1372. DOI: 10.3390/pharmaceutics17111372. WOS:001623711200001. | WOS | 1 | 6.9 |
| Kulshreshtha, S.; Taufik, M. Design and Development of Oblique Filament Making Machine for Fused Filament Fabrication 3D Printing Process. <i>Journal of Materials Engineering and Performance</i> 2025. DOI: 10.1007/s11665-025-12368-y. WOS:001592012200001.                                                                                                                                 | WOS | 1 | 2.6 |
| Ashok, N. D.; Avalappa, M. G.; Deshpande, A. S.; Puttaswamy, J. T.; Kumar, M. Assessment of Dimensional Fidelity in 3D Printed PLA Casting Patterns via Laser Scanning. <i>Engineering Reports</i> 2025, 7 (10), e70421. DOI: 10.1002/eng2.70421. WOS:001606158100006.                                                                                                                         | WOS | 1 | 2.9 |
| Bouchetara, M.; Belhabib, S.; Melelli, A.; Perrin, J.; Weitkamp, T.; Koubaa, A.; Tahlaiti, M.; Nouri, M.; Guessasma, S. Effect of Printing Temperature on the Microstructure and Tensile Properties of Polylactic Acid-Magnetic Iron Composites Manufactured by Material Extrusion. <i>Polymers</i> 2025, 17 (18), 2485. DOI: 10.3390/polym17182485. WOS:001579912000001.                      | WOS | 1 | 5.8 |
| Sudin, M. N.; Saleman, A. R.; Daud, N. M.; Zakaria, K. A.; Munir, F. A. Experimental Analysis of Color Influence on Optimized FDM Parameters for PLA using the Taguchi Method. <i>Jurnal Kejuruteraan</i> 2025, 37 (6), 2739–2748. DOI: 10.17576/jkukm-2025-37(6)-13. WOS:001617203900012.                                                                                                     | WOS | 1 | 0.8 |
| John, P.; Komma, V. R.; Bhore, S. P. Revolutionizing metal 3D printing with fabrication of copper components via metal fused filament fabrication: A study on the effect of shaping parameters. <i>Proceedings of the Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering</i> 2025. DOI: 10.1177/09544089251372273. WOS:001563627900001.                      | WOS | 1 | 2   |
| Ardeljan, D. D.; Frunzaverde, D.; Cojocaru, V.; Turiac, R. R.; Bacescu, N.; Ciubotariu, C. R.; Marginean, G. The Impact of Elevated Printing Speeds and Filament Color on the Dimensional Precision and Tensile Properties of FDM-Printed PLA Specimens. <i>Polymers</i> 2025, 17 (15), 2090. DOI: 10.3390/polym17152090. WOS:001548741800001.                                                 | WOS | 1 | 5.8 |
| Liu, M. M.; Li, X. R.; Li, J. C.; Zhong, Y.; Lei, Y.; Liu, A. L. Investigating Hepatic Glucose Metabolism in Insulin Resistance Cell Model Using 3D-Printed Open Microfluidic Chip. <i>Biotechnology Journal</i> 2025, 20 (7), e70076. DOI: 10.1002/biot.70076. WOS:001524752700001.                                                                                                           | WOS | 1 | 3.7 |
| John, P.; Komma, V. R.; Bhore, S. P. Effect of printing parameters on the properties and quality of 3D-printed 316L SS-polymer composite parts in metal fused filament fabrication: A one-factor-at-a-time approach. <i>Proceedings of the Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering</i> 2025. DOI: 10.1177/09544089251355228. WOS:001524720300001. | WOS | 1 | 2   |
| Ciobanu, R.; Arhip, G.; Dontu, O.; Rizescu, C. I.; Gramescu, B. Additive Manufacturing Meets Gear Mechanics: Understanding Abrasive Wear Evolution in FDM-Printed Gears. <i>Polymers</i> 2025, 17 (13), 1810. DOI: 10.3390/polym17131810. WOS:001526181800001.                                                                                                                                 | WOS | 1 | 5.8 |
| Machado, A. C.; Costa, A. F.; Rodrigues, A. R.; Moreira, P. F.; Duarte, F. M.; Pontes, A. J. Waste Coffee Silver Skin as a Natural Filler in PLA-Based Filaments for Fused Filament Fabrication (FFF) Printing. <i>Polymers</i> 2025, 17 (13), 1766. DOI: 10.3390/polym17131766. WOS:001527129200001.                                                                                          | WOS | 1 | 5.8 |
| Li, Y. F.; Molazem, A.; Kuo, H.; Ahmadi, V.; Shastri, V. P. Comparative Analysis of Dimensional Accuracy in PLA-Based 3D Printing: Effects of Key Printing Parameters and Related Variables. <i>Polymers</i> 2025, 17 (12), 1698. DOI: 10.3390/polym17121698. WOS:001514926300001.                                                                                                             | WOS | 1 | 5.8 |

|                                                                                                                                                                                                                                                                                                                                                                                                                           |     |   |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Zhang, P. Y.; He, F. Y.; Khan, M. Optimization of Printing Parameters for Self-Lubricating Polymeric Materials Fabricated via Fused Deposition Modelling. <i>Polymers</i> 2025, 17 (10), 1401. DOI: 10.3390/polym17101401. WOS:001495659000001.                                                                                                                                                                           | WOS | 1 | 5.8 |
| Kónya, G.; Tóth, L.; Gerse, P.; Palásti, F.; Hansághy, P.; Ronkay, F. Cutting tests and performance evaluation of recycled PET in fused filament fabrication. <i>Materials Today Sustainability</i> 2025, 31, 101126. DOI: 10.1016/j.mtsust.2025.101126. WOS:001510427200001.                                                                                                                                             | WOS | 1 | 9.4 |
| Sestini, M.; Puppi, D.; Braccini, S.; Macchi, T.; Matungano, B.; Macolic, S.; Guazzini, T.; Parrini, G.; Milazzo, M.; Danti, S. Elasticity in Porous 3D-Printed Polylactic Acid Scaffolds for Biomedical Applications: A Predictive Approach. <i>Polymers</i> 2025, 17 (7), 836. DOI: 10.3390/polym17070836. WOS:001463647100001.                                                                                         | WOS | 1 | 5.8 |
| Jayakumar, N.; Senthilkumar, G.; Kumar, M. Investigation on geometric, dimensional accuracy and surface roughness for 3D printed PLA via fused deposition modelling (FDM) process. <i>Proceedings of the Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering</i> 2025. DOI: 10.1177/09544089241312637. WOS:001401634400001.                                                              | WOS | 1 | 2   |
| Quan, R. X.; Liu, F. Y.; Chinchilla, S. C. Integrating machine learning and finite element simulation for interpretable prediction of 3D-printed bone scaffold mechanics. <i>International Journal of Bioprinting</i> 2025, 11 (6), 327–348. DOI: 10.36922/IJB025270257. WOS:001638641300015.                                                                                                                             | WOS | 1 | 5   |
| Carbajal-Casique, M. N.; Pérez-Sánchez, L.; Alvarez-Perez, M. A.; Rayo-López, G. D.; Reyes-Esqueda, J. A.; Marichi-Rodríguez, F.; Bello, J. S. Influence of white pigment on the properties of polylactic acid scaffolds for 3D printing: in vitro and in vivo analysis. <i>AIMS Bioengineering</i> 2025, 12 (2), 225–248. DOI: 10.3934/bioeng.2025011. WOS:001517303100001.                                              | WOS | 1 | 1.6 |
| Cheng, J. T. Y.; Tan, E. C. K.; Kang, L. F. Pharmacy 3D printing. <i>Biofabrication</i> 2025, 17 (1), 012002. DOI: 10.1088/1758-5090/ad837a. WOS:001341571700001.                                                                                                                                                                                                                                                         | WOS | 1 | 8.2 |
| Abd-El Nabi, A. M.; Mahmoud, M.; Marzouk, W.; Nafea, M.; Elsheikh, A.; Mourad, A. H. I.; Ibrahim, A. M. M. Tribological characteristics of porous 3D-printed PLA plus with anaerobic methacrylate self-impregnated lubricant. <i>Progress in Additive Manufacturing</i> 2024. DOI: 10.1007/s40964-024-00903-7. WOS:001382051200001.                                                                                       | WOS | 1 | 5.2 |
| Allegue, L.; Ftoutou, E.; Marouani, H.; Hassine, T.; Fouad, Y.; Mrad, H. Effect of Infill Density Percentage and Printing Direction on Bending Fatigue Properties of Polylactide Specimens Manufactured by Fused Filament Fabrication. <i>Journal of Materials Engineering and Performance</i> 2025, 34 (17), 18712–18725. DOI: 10.1007/s11665-024-10579-3. WOS:001379331700001.                                          | WOS | 1 | 2.6 |
| Passeraub, P. A.; Allen, Q.; Clark, E.; Miles, M.; Berns, S.; Pearson, M.; Allred, S.; Brooks, J.; Hugon, S. A Study of Fit and Friction Force as a Function of the Printing Process for FFF 3D-Printed Piston-Cylinder Assembly. <i>Journal of Manufacturing and Materials Processing</i> 2024, 8 (6), 249. DOI: 10.3390/jmmp8060249. WOS:001386025400001.                                                               | WOS | 1 | 4   |
| Solouki, A.; Aliha, M. R. M.; Makui, A.; Choupani, N.; Seiti, H. Analyzing the effects of printing parameters to minimize the dimensional deviation of polylactic acid parts by applying three different decision-making approaches. <i>Scientific Reports</i> 2024, 14 (1), 27674. DOI: 10.1038/s41598-024-78952-9. WOS:001354064300044.                                                                                 | WOS | 1 | 4.9 |
| Khan, W. A.; Hassan, M.; Ahmed, I.; Xiao, M. H.; Faraz, M. I.; Li, K.; Khan, I.; Muhammad, R.; Wu, H. Y.; Hussain, G. Insights into flexural and impact properties of polymer based materials printed through fused filament fabrication: Progress in the last decade. <i>International Journal of Lightweight Materials and Manufacture</i> 2024, 7 (6), 925–957. DOI: 10.1016/j.ijlmm.2024.05.011. WOS:001508614900001. | WOS | 1 | 6.9 |

|                                                                                                                                                                                                                                                                                                                                                                             |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Pathek, I. A., Jr.; da Silva, J. R. F.; Lima, D. D.; Limberger, I. F.; Buenos, A. A.; Scheuer, C. J. Assessment of carbon fiber incorporation effects on overall characteristics and properties of 3D-printed PLA. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> 2024, 46 (11), 640. DOI: 10.1007/s40430-024-05233-x. WOS:001329439000005. | WOS | 1 | 2.7 |
| Turan, M. K.; Sabirli, M. U.; Bakirci, A.; Kartal, E.; Karpat, F. A comprehensive study on the effects of printing parameters on the mechanical properties of PLA. <i>Rapid Prototyping Journal</i> 2025, 31 (1), 174–183. DOI: 10.1108/RPJ-03-2024-0137. WOS:001324767900001.                                                                                              | WOS | 1 | 3.3 |
| Kouassi, M. C.; Kallel, A.; Abdallah, A. B.; Nouira, S.; Ballut, S.; Fitoussi, J.; Shirinbayan, M. Assessment of fused deposition modeling (FDM) parameters for fabrication of solid and hollow microneedles using polylactic acid (PLA). <i>Polymers for Advanced Technologies</i> 2024, 35 (8), e6548. DOI: 10.1002/pat.6548. WOS:001294722700001.                        | WOS | 1 | 3.8 |
| Musa, N. H.; Mazlan, N. N.; Yusuf, S. M.; Redzuan, F. L. B. M.; Nordin, N. A.; Mazlan, S. A. Influence of nozzle temperatures on the microstructures and physical properties of 316L stainless steel parts additively manufactured by material extrusion. <i>Rapid Prototyping Journal</i> 2024, 30 (10), 2021–2032. DOI: 10.1108/RPJ-07-2023-0244. WOS:001294348700001.    | WOS | 1 | 3.3 |
| Saravanamuthukumar, P.; Kaaviya, J.; Palaniyappan, S.; Sivakumar, N. K.; Bodaghi, M.; Rahaman, M.; Pandiaraj, S. Compressive strength performance of 3D printed PLA/almond shell particles reinforced PLA multi-material composite. <i>Journal of Elastomers and Plastics</i> 2024, 56 (6), 786–806. DOI: 10.1177/00952443241270804. WOS:001286096700001.                   | WOS | 1 | 2.4 |
| Thornell, T. L.; Wedgeworth, D. N.; Antwine, M. D.; Burroughs, J. F. Influence of Carbonyl Iron Particles (CIP) and Glass Microspheres on Thermal Properties of Poly(lactic acid) (PLA). <i>Polymers</i> 2024, 16 (15), 2194. DOI: 10.3390/polym16152194. WOS:001287056000001.                                                                                              | WOS | 1 | 5.8 |
| Öngül, F. F.; Kandemir, I.; Öngül, E. P. Experimental Comparison of Fastener Implementation Approaches in Fused Deposition Modeling. <i>Applied Sciences-Basel</i> 2024, 14 (12), 5172. DOI: 10.3390/app14125172. WOS:001254402300001.                                                                                                                                      | WOS | 1 | 2.9 |
| Portoaca, A. I.; Tanase, M. Exploring Shore D Hardness Variations Under Different Printing Conditions and Post-processing Treatments. <i>Jordan Journal of Mechanical and Industrial Engineering</i> 2024, 18 (2), 421–429. DOI: 10.59038/jjmie/180214. WOS:001246670000014.                                                                                                | WOS | 1 |     |
| Minh, P. S.; Nguyen, V. T.; Uyen, T. M. T.; Do, T. T.; Van, A. D. T.; Dang, H. N. L. The effects of 3D printing designs on PLA polymer flexural and fatigue strength. <i>Journal of Micromechanics and Microengineering</i> 2024, 34 (6), 065004. DOI: 10.1088/1361-6439/ad4b2a. WOS:001230473600001.                                                                       | WOS | 1 | 2.5 |
| Portoaca, A. I.; Dinita, A.; Tanase, M.; Savulescu, A.; Sirbu, E. E.; Calin, C.; Branoiu, G. Analyzing Sustainable 3D Printing Processes: Mechanical, Thermal, and Crystallographic Insights. <i>Polymers</i> 2024, 16 (10), 1364. DOI: 10.3390/polym16101364. WOS:001231651000001.                                                                                         | WOS | 1 | 5.8 |
| Cadete, M. S.; Gomes, T. E. P.; Gonçalves, I.; Neto, V. Influence of 3D-printing deposition parameters on crystallinity and morphing properties of PLA-based materials. <i>Progress in Additive Manufacturing</i> 2025, 10 (1), 127–137. DOI: 10.1007/s40964-024-00608-x. WOS:001200397000003.                                                                              | WOS | 1 | 5.2 |
| Guessasma, S.; Belhabib, S. Effect of the Printing Angle on the Microstructure and Tensile Performance of Iron-Reinforced Polylactic Acid Composite Manufactured Using Fused Filament Fabrication. <i>Journal of Manufacturing and Materials Processing</i> 2024, 8 (2), 65. DOI: 10.3390/jmmp8020065. WOS:001210396900001.                                                 | WOS | 1 | 4   |
| Ciobanu, R.; Rizescu, C. I.; Rizescu, D.; Gramescu, B. Surface Durability of 3D-Printed Polymer Gears. <i>Applied Sciences-Basel</i> 2024, 14 (6), 2531. DOI: 10.3390/app14062531. WOS:001191798300001.                                                                                                                                                                     | WOS | 1 | 2.9 |



|                                                                                                                                                                                                                                                                                                                                                                                   |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Bulderberga, O.; Zile, E.; Joffe, R.; Sevcenko, J.; Aniskevich, A. Mechanical Characteristics of Thermoplastic Polymers for 3D Printed Hybrid Structures. <i>Mechanics of Composite Materials</i> 2024, 60 (1), 17–32. DOI: 10.1007/s11029-024-10172-8. WOS:001167944800003.                                                                                                      | WOS | 1 | 1.6 |
| Fu, Z.; Salo, T.; Calvo Guzman, R.; Vanhala, J.; Mäntysalo, M. Hybrid Material Extrusion Process Optimization for Printability and Adhesion in 3D-Printed Electronics. <i>Advanced Engineering Materials</i> 2024, 26 (6). DOI: 10.1002/adem.202301714. WOS:001149790600001.                                                                                                      | WOS | 1 | 3.6 |
| Equbal, A.; Murmu, R.; Kumar, V.; Equbal, M. A. A recent review on advancements in dimensional accuracy in fused deposition modeling (FDM) 3D printing. <i>AIMS Materials Science</i> 2024, 11 (5), 950–990. DOI: 10.3934/materci.2024046. WOS:001339570000001.                                                                                                                   | WOS | 1 | 2.1 |
| Kowalski, L.; Bembenek, M.; Uhrynski, A.; Bajda, S. Comparative study of experimental thermographic data and finite element analysis on temperature evolution of PET-G layer deposition during additive manufacturing process. <i>Bulletin of the Polish Academy of Sciences-Technical Sciences</i> 2023, 71 (6), e147926. DOI: 10.24425/bpasts.2023.147926. WOS:001140388900022. | WOS | 1 | 1.1 |
| Acierno, D.; Patti, A. Fused Deposition Modelling (FDM) of Thermoplastic-Based Filaments: Process and Rheological Properties—An Overview. <i>Materials</i> 2023, 16 (24), 7664. DOI: 10.3390/ma16247664. WOS:001131318100001.                                                                                                                                                     | WOS | 1 | 3.7 |
| Gebrehiwot, S. Z.; Espinosa-Leal, L.; Linderbäck, P.; Remes, H. Optimising the mechanical properties of additive-manufactured recycled polylactic acid (rPLA) using single and multi-response analyses methods. <i>International Journal of Advanced Manufacturing Technology</i> 2023. DOI: 10.1007/s00170-023-12623-3. WOS:001099902300002.                                     | WOS | 1 | 3.7 |
| Portoaca, A. I.; Ripeanu, G. R.; Nae, I.; Tanase, M. The influence of 3D printing parameters and heat treatment on tribological behavior. <i>Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering</i> 2023, 66 (5), 537–546. WOS:001267255200037.                                                                                                        | WOS | 1 | 0.1 |
| Zisopol, D. G.; Portoaca, A. I.; Tanase, M. Improving the Impact Resistance through Annealing in PLA 3D Printed Parts. <i>Engineering Technology &amp; Applied Science Research</i> 2023, 13 (5), 11768–11772. DOI: 10.48084/etasr.6281. WOS:001106870500001.                                                                                                                     | WOS | 1 |     |
| Zisopol, D. G.; Tanase, M.; Portoaca, A. I. Innovative Strategies for Technical-Economical Optimization of FDM Production. <i>Polymers</i> 2023, 15 (18), 3787. DOI: 10.3390/polym15183787. WOS:001078224400001.                                                                                                                                                                  | WOS | 1 | 5.8 |
| Thakur, V.; Singh, R.; Kumar, R. On investigation of flexural, morphological, and shape memory properties for 3D printed PLA-PVDF NFs-PLA interleave composite structures for smart gripper applications. <i>Journal of Thermoplastic Composite Materials</i> 2024, 37 (4), 1407–1428. DOI: 10.1177/08927057231193350. WOS:001043436800001.                                       | WOS | 1 | 4   |
| Portoaca, A. I.; Ripeanu, R. G.; Dinita, A.; Tanase, M. Optimization of 3D Printing Parameters for Enhanced Surface Quality and Wear Resistance. <i>Polymers</i> 2023, 15 (16), 3419. DOI: 10.3390/polym15163419. WOS:001056403300001.                                                                                                                                            | WOS | 1 | 5.8 |
| Orgeldinger, C.; Seynstahl, A.; Rosnitschek, T.; Tremmel, S. Surface Properties and Tribological Behavior of Additively Manufactured Components: A Systematic Review. <i>Lubricants</i> 2023, 11 (6), 257. DOI: 10.3390/lubricants11060257. WOS:001014694300001.                                                                                                                  | WOS | 1 | 3.6 |
| Seyedzavvar, M. A hybrid ANN/PSO optimization of material composition and process parameters for enhancement of mechanical characteristics of 3D-printed sample. <i>Rapid Prototyping Journal</i> 2023, 29 (6), 1270–1288. DOI: 10.1108/RPJ-10-2022-0338. WOS:000939472100001.                                                                                                    | WOS | 1 | 3.3 |

|   |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            |     |   |      |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|------|
|   |                                                                                                                                                                                                                                                                                            | Patti, A.; Acierno, S.; Cicala, G.; Acierno, D. Predicting the Printability of Poly(Lactide) Acid Filaments in Fused Deposition Modeling (FDM) Technology: Rheological Measurements and Experimental Evidence. <i>ChemEngineering</i> 2023, 7 (1), 1. DOI: 10.3390/chemengineering7010001. WOS:000939262900001.                                            | WOS | 1 | 3.7  |
|   |                                                                                                                                                                                                                                                                                            | Ahmad, N. N.; Wong, Y. H.; Ghazali, N. N. N. A systematic review of fused deposition modeling process parameters. <i>Soft Science</i> 2022, 2 (3), 11. DOI: 10.20517/ss.2022.08. WOS:001320448600001.                                                                                                                                                      | WOS | 1 | 15.9 |
| 7 | Cojocaru, V.; Frunzaverde, D.; Miclosina, C.-O.; Marginean, G. The Influence of the Process Parameters on the Mechanical Properties of PLA Specimens Produced by Fused Filament Fabrication-A Review. <i>Polymers</i> 2022, 14 (5), 886. DOI: 10.3390/polym14050886. WOS: 000769207600001. | Salem, R.; Alsoruji, G.; Basha, M.; Othman, R. A compression-shear specimen for mechanical characterization of 3D-printed polylactic acid (PLA). <i>Green Materials</i> 2026. DOI: 10.1680/jgrma.25.00034 WOS: 001804277400001                                                                                                                             | WOS | 1 | 1.9  |
|   |                                                                                                                                                                                                                                                                                            | Ancio, F.; Távora, L.; Ferreira, L. M. Process-Induced Anisotropy and Fracture Behavior of Pellet-3D Printed PLA and PLA/Flax Biocomposites. <i>Polymer Composites</i> 2026. DOI: 10.1002/pc.71361 WOS: 001804722000001                                                                                                                                    | WOS | 1 | 4.9  |
|   |                                                                                                                                                                                                                                                                                            | Gopan, G. V.; George, S. F.; Ragini, D. D.; Velayudhan, S. Effect of infill pattern and density on the mechanical properties of PLA structures fabricated via pellet extrusion 3D printing. <i>Bulletin of Materials Science</i> 2026, 49 (3), Article 116. DOI: 10.1007/s12034-026-03628-1 WOS: 001797478400001                                           | WOS | 1 | 2.1  |
|   |                                                                                                                                                                                                                                                                                            | Saha, R. Kumar; Islam, M.; Haque, S.; Paul, B.; Hassan, M. Fabrication and mechanical-physical characterization of 3D printed PLA-based eco-friendly composites reinforced with jute/banana fiber. <i>Next Materials</i> 2026, 12, Article 102529. DOI: 10.1016/j.nxmate.2026.102529 WOS: 001799408000001                                                  | WOS | 1 | 4.7  |
|   |                                                                                                                                                                                                                                                                                            | Sentürk, E.; Alparslan, C.; Ötügen, R.; Erhan, M. F.; Bayraktar, S. Drilling Characteristics of Additively Manufactured PLA/17-4 PH Stainless Steel Hybrid Composite: Thrust Force, Surface Roughness, Vibration and Temperature Change. <i>Polymers</i> 2026, 18 (12), Article 1434. DOI: 10.3390/polym18121434 WOS: 001802300900001                      | WOS | 1 | 5.8  |
|   |                                                                                                                                                                                                                                                                                            | Gerdes, S.; Heck, P. M.; Langer, S. C.; Vietor, T. Frequency-Dependent Effects of Material Extrusion Parameters on the Storage Modulus and Loss Factor of PETG. <i>Polymers</i> 2026, 18 (11), Article 1412. DOI: 10.3390/polym18111412 WOS: 001790431000001                                                                                               | WOS | 1 | 5.8  |
|   |                                                                                                                                                                                                                                                                                            | Crapnell, R. D.; Bernalte, E.; Banks, C. E. Advances in Additive Manufacturing Electrochemistry. <i>Chemical Reviews</i> 2026, 126 (12), 6963–7003. DOI: 10.1021/acs.chemrev.5c00984 WOS: 001786416800001                                                                                                                                                  | WOS | 1 | 64.2 |
|   |                                                                                                                                                                                                                                                                                            | Mencarelli, M.; Puggelli, L.; Volpe, Y.; Innocenti, B. SENSITIVITY ON 3D-PRINTED PARAMETERS OF STIFFNESS AND YOUNG'S MODULUS OF FDM-PRINTED PLA, STONEFIL™ GRANITE AND WOODFILL FILAMENTS: A COMPARATIVE ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> 2026, 26 (05), Article 2540054. DOI: 10.1142/S0219519425400548 WOS: 001783150500004 | WOS | 1 | 0.6  |
|   |                                                                                                                                                                                                                                                                                            | Gonabadi, H.; Chen, Y.; Sareh, P. Multiscale Prediction of Anisotropic Plasticity in Additively Manufactured Lattices. <i>Advanced Theory and Simulations</i> 2026, 9 (5), Article e70418. DOI: 10.1002/adts.70418 WOS: 001770708000001                                                                                                                    | WOS | 1 | 3.2  |
|   |                                                                                                                                                                                                                                                                                            | Hanzelic, B.; Necemer, B.; Glodez, S.; Harih, G. Experimental and Numerical Thermo-Mechanical Characterization of Polylactic Acid Fabricated by Fused Filament Fabrication. <i>Polymer Engineering and Science</i> 2026. DOI: 10.1002/pen.70610 WOS: 001766943600001                                                                                       | WOS | 1 | 3.6  |
|   |                                                                                                                                                                                                                                                                                            | Gupta, N.; Singh, I. Functionally graded properties of PA6/recycled milled carbon fiber composites through filament design in fused filament fabrication (FFF) process. <i>Journal of Manufacturing Processes</i> 2026, 165, 101–117. DOI: 10.1016/j.jmapro.2026.03.005 WOS: 001712952500001                                                               | WOS | 1 | 7.8  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| <p>Țisari, V.; Mihalache, M.A.; Nagiț, G.; Ermolai, V.; Irimia, A.-I.; Grădinaru, C.-G.; Spiridon, A.-A.; Crăciun, E.; Hobjălă, R.-G.; Slătineanu, L. The Influence of Certain Operating Conditions of the FDM Process on the Mechanical Properties of Polymeric Materials—A Review. <i>Polymers</i> 2026, 18, 1183. <a href="https://doi.org/10.3390/polym18101183">https://doi.org/10.3390/polym18101183</a>, WOS:001774496300001</p> | WOS | 1 | 5.8 |
| <p>Lahiani, C.; Jabeur, M.; Daassi, D.; Souissi, S.; Chamkha, M. Hydrothermal durability of 3D-printed PLA-carbon fiber composites: assessing mechanical degradation in distilled and ocean water. <i>Euro-Mediterranean Journal for Environmental Integration</i> 2026, 11 (5), Articol 172. DOI: 10.1007/s41207-026-01142-8 WOS: 001756401900003</p>                                                                                  | WOS | 1 | 2.4 |
| <p>Kyalo, W. M.; Maurya, G.; Singh, J. Machine learning-based parameter significance for wear performance and process-wear-sustainability correlations of 3D-printed polylactic acid. <i>Rapid Prototyping Journal</i> 2026. DOI: 10.1108/RPJ-04-2025-0132 WOS: 001754027200001</p>                                                                                                                                                     | WOS | 1 | 3.3 |
| <p>Sherif, M.; Mekhiel, S.; Elmesalamy, A. S.; Mahmoud, H. Multi-objective optimization of material extrusion parameters to balance mechanical and economic performance. <i>Progress in Additive Manufacturing</i> 2026, 11 (6), 5973–6001. DOI: 10.1007/s40964-026-01681-0 WOS: 001751875300001</p>                                                                                                                                    | WOS | 1 | 5.2 |
| <p>Efstathiadis, A.; Symeonidou, I.; Tsongas, K.; Tzimitzimis, E. K.; Tzetzis, D. Generative Design of 3D-Printed Biomimetic Interlocking Blocks Inspired by the Cellular 3D Puzzle Structure of the Walnut Shell. <i>Biomimetics</i> 2026, 11 (4), Articol 289. DOI: 10.3390/biomimetics11040289 WOS: 001749908200001</p>                                                                                                              | WOS | 1 | 4.2 |
| <p>Rodríguez Reyna, S.; Díaz Aguilera, J.; Acevedo Parra, H.; García, C.; Tapia, F. Topological Optimization of 3D Printed Nylon: Influence of Infill on Fatigue, UTS, and Porosity. <i>Fatigue &amp; Fracture of Engineering Materials &amp; Structures</i> 2026, 49 (7), 2475–2488. DOI: 10.1111/ffe.70284 WOS: 001740468600001</p>                                                                                                   | WOS | 1 | 3.2 |
| <p>Panagos, P.; Kantaros, A.; Ganetsos, T.; Papoutsidakis, M. Dimensional Fidelity and Slicer Mass Prediction Bias in FFF-Printed UAV Micro-Frames: A Material-Dependent Comparative Study. <i>Materials</i> 2026, 19 (8), Articol 1507. DOI: 10.3390/ma19081507 WOS: 001750143500001</p>                                                                                                                                               | WOS | 1 | 3.7 |
| <p>Pazarcikci, A.; Özsoy, K.; Aksoy, B. Machine Learning-Driven Prediction of Manufacturing Parameters and Analysis of Mechanical Properties of PC-ABS Specimens Produced by the Fused Deposition Modeling Additive Manufacturing Method. <i>Polymers</i> 2026, 18 (7), Articol 886. DOI: 10.3390/polym18070886 WOS: 001738620500001</p>                                                                                                | WOS | 1 | 5.8 |
| <p>Chen, J. X.; Xue, S. Y.; Zhang, R. Q.; Zheng, B. T.; Shen, H.; Zhang, H. G. Synergy between dynamic crosslinking and sacrificial bonding in bio-elastomers towards highly ductile and mechanically robust poly (lactic acid) (PLA). <i>Industrial Crops and Products</i> 2026, 243, Articol 123139. DOI: 10.1016/j.indcrop.2026.123139 WOS: 001731910100001</p>                                                                      | WOS | 1 | 6.4 |
| <p>Zurnaci, E. Impact of Printing Parameters on the Surface Morphology and Thermal Stability of Sustainable FDM Filaments: A Taguchi-Based Factorial Design Study. <i>Applied Sciences-Basel</i> 2026, 16 (6), Articol 2904. DOI: 10.3390/app16062904 WOS: 001725056700001</p>                                                                                                                                                          | WOS | 1 | 2.9 |
| <p>Solek, C.; Crespo-Sánchez, J.; del Toro, S. F.; Ayllón, J.; Frigione, M.; Camacho, A. M.; Rodríguez-Hernández, J.; Rodríguez-Prieto, A. Degradation and Long-Term Response Evaluation of Polymeric Components Produced by Additive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> 2026, 10 (3), Articol 102. DOI: 10.3390/jmmp10030102 WOS: 001725711400001</p>                                             | WOS | 1 | 4   |
| <p>Sahithi, V. V. D.; Ammisetti, D. K. Experimental and machine learning studies on flexural properties of 3D-printed PLA/wood composites. <i>Journal of Reinforced Plastics and Composites</i> 2026. DOI: 10.1177/07316844261435056 WOS: 001715045700001</p>                                                                                                                                                                           | WOS | 1 | 2.3 |

|                                                                                                                                                                                                                                                                                                                                                          |     |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| González, A. G.; Zambrano-Robledo, PC.; Avila, D.; Rivas, M.; Quiza, R. Multi-Objective Optimization of Mechanical and Geometric Properties of 3D-Printed PLA Porous Scaffolds for Biomedical Applications. <i>Materials</i> 2026, 19 (5), Articol 1008. DOI: 10.3390/ma19051008 WOS: 001714454700001                                                    | WOS | 1 | 3.7 |
| Stanciu, M. D.; Teodorescu, H. D.; Tesula, I.; Georgescu, S. V.; Dinulica, F. Experimental and Numerical Investigation of Mechanical Properties of Hyper Polylactic Acid (HPLA). <i>Polymers</i> 2026, 18 (5), Articol 624. DOI: 10.3390/polym18050624 WOS: 001713553500001                                                                              | WOS | 1 | 5.8 |
| Ciganas, J.; Kalinauskis, T.; Cigane, U. Thermo-Mechanical and Fatigue Behavior of 3D-Printed PA12 CF15 for Engineering Application. <i>Polymers</i> 2026, 18 (5), Articol 563. DOI: 10.3390/polym18050563 WOS: 001713565900001                                                                                                                          | WOS | 1 | 5.8 |
| Polomoshnova, D.; Bulavskaya, A.; Miloichikova, I.; Opoku, F. N.; Stuchebrov, S. Validating photon beam delivery by 3D-printed head phantom. <i>Radiation Physics and Chemistry</i> 2026, 243, Articol 113683. DOI: 10.1016/j.radphyschem.2026.113683 WOS: 001686226000001                                                                               | WOS | 1 | 3.5 |
| Khmissi, B.; Belhi, G.; Hamida, B.; Srivastava, V.; Reis, P. N. B. Optimization of fused deposition modeling parameters for enhanced tensile performance of PLA using Taguchi and ANOVA approaches. <i>International Journal of Advanced Manufacturing Technology</i> 2026, 142 (11-12), 6093–6104. DOI: 10.1007/s00170-026-17534-7 WOS: 001673920600001 | WOS | 1 | 3.7 |
| Cvetkoski, M.; Zadeh, H. N. Exploring commercial PHA filament for more eco-friendly 3D printing. <i>Manufacturing Letters</i> 2026, 47, 32–37. DOI: 10.1016/j.mfglet.2025.12.005. WOS:001668249200001.                                                                                                                                                   | WOS | 1 | 2.8 |
| Kumar, P.; Ghangas, G.; Dhull, S. Exploring the Impact of Process Parameters on 3D Printing: A Comprehensive Review for Enhanced Product Quality. <i>Journal of Polymer &amp; Composites</i> 2026, 14 (SI), S975–S996. WOS: 001755367200024                                                                                                              | WOS | 1 | 0.3 |
| Radzuan, N. A. M.; Subrain, I.; Foudzi, F. M.; Sulong, A. B. Printing Layer Thickness Effect of Bulk Polylactic Acid via Fused Deposited Modeling On Mechanical Performance: Comparative Study For High Temperature Condition. <i>Jurnal Kejuruteraan</i> 2026, 38 (1), 217–226. DOI: 10.17576/jkukm-2026-38(1)-21 WOS: 001688084700021                  | WOS | 1 | 0.8 |
| Bashtani, M.; Etemadi, E.; Lezgy-Nazargah, M.; Alderson, A. Design and evaluation of a modified arrow-head auxetic structure (pinehead) for enhanced energy absorption. <i>Smart Materials and Structures</i> 2026, 35 (1), 015015. DOI: 10.1088/1361-665X/ae2f0b. WOS:001651338600001.                                                                  | WOS | 1 | 3.8 |
| Arikan, V.; Dogan, A. Multivariable assessment of infill strategies for enhanced mechanical properties in 3D-printed curved beams. <i>Rapid Prototyping Journal</i> 2025. DOI: 10.1108/RPJ-04-2025-0144. WOS:001643351200001.                                                                                                                            | WOS | 1 | 3.3 |
| Wu, Q.; Djouda, J. M.; Smaniotto, B.; Legroux, R.; Hild, F. Investigations of raster layup effect on mechanical and fracture properties of material extruded ABS samples under biaxial loadings. <i>International Journal of Advanced Manufacturing Technology</i> 2026, 142 (1–2), 377–397. DOI: 10.1007/s00170-025-17115-0. WOS:001630617300001        | WOS | 1 | 3.7 |
| de Assis, C. L. F.; Tiene, K. D.; Magosse, G. B. Dimensional Stability and Mechanical Performance of Thermally Conditioned High-Heat Polylactic Acid Parts Produced by Fused Filament Fabrication. <i>Polymer Engineering and Science</i> 2025. DOI: 10.1002/pen.70250. WOS:001615304700001                                                              | WOS | 1 | 3.6 |
| Lee, J. T.; Lee, D.; Jung, Y. S.; Lee, S. H.; Kim, S.; Kim, B.; Han, D. W. Optimized 3D-Printed Polylactic Acid/Graphene Oxide Scaffolds for Enhanced Bone Regeneration. <i>Bioengineering-Basel</i> 2025, 12 (11), 1192. DOI: 10.3390/bioengineering12111192. WOS:001624026200001                                                                       | WOS | 1 | 4.4 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Khalil, C.; Ben Ayad, A.; El Otmani, R.; Boutaous, M.; Kandoussi, K. Simulation of thermally induced crystallization kinetics during fused deposition modeling of thermoplastics: competing effects of interlayer and intralayer filament deposition. <i>Progress in Additive Manufacturing</i> 2026, 11 (1), 843–861. DOI: 10.1007/s40964-025-01384-y. WOS:001596866400001                                                                                    | WOS | 1 | 5.2 |
| Andrzejewski, J.; Skórczewska, K.; Barczewski, M. Evaluation of Thermomechanical Properties of Polymer Blends Intended for Additive Manufacturing Processing: Comparative Study of Poly(Lactic Acid) and Poly(Lactic Acid)/Polyhydroxyalkanoate Blends. <i>Polymers</i> 2025, 17 (18), 2454. DOI: 10.3390/polym17182454. WOS:001581457000001                                                                                                                   | WOS | 1 | 5.8 |
| Jayaram, R. S.; Saravanamuthukumar, P.; Abdullah, A. B.; Krishnamoorthy, R.; Kumar, S.; Yong, X.; Prabhakar, S. Machine learning driven optimization of compressive strength of 3D printed bio polymer composite material. <i>PLoS One</i> 2025, 20 (8), e0330625. DOI: 10.1371/journal.pone.0330625. WOS:001560804400009                                                                                                                                      | WOS | 1 | 2.8 |
| Gonçalves, V. P. D.; de Lima, E. B.; Vieira, C. M. F.; Simonassi, N. T.; Coto, N. P.; Berard, L. T.; Colorado, H. A.; Lopes, F. P. D. Impact of Raster Angles on the Mechanical Performance of 3D Printed Face Shield. <i>Dental Traumatology</i> 2025. DOI: 10.1111/edt.70013. WOS:001554650100001                                                                                                                                                            | WOS | 1 | 4.8 |
| Kumar, R.; Kumar, S. Effects of Raster Angle, Printing Speed, and Layer Height on Mechanical Properties of Fused Deposition Modeling-Printed Polylactic Acid Samples for Biomedical Applications. <i>Journal of Materials Engineering and Performance</i> 2025. DOI: 10.1007/s11665-025-11812-3. WOS:001553782100001.                                                                                                                                          | WOS | 1 | 2.6 |
| Fu, T. H.; Li, D. R. Real-time process monitoring and error correction in material extrusion-based additive manufacturing via multi-output machine learning. <i>Journal of Manufacturing Processes</i> 2025, 152, 638–656. DOI: 10.1016/j.jmapro.2025.08.025. WOS:001553425400003.                                                                                                                                                                             | WOS | 1 | 7.8 |
| Petousis, M.; David, C.; Sagris, D.; Nasikas, N. K.; Papadakis, V.; Argyros, A.; Efstratiadis, V. S.; Gaganatsiou, A.; Michailidis, N.; Vidakis, N. Reinforced PHA/CNC Biocomposites in Extrusion-Based Additive Manufacturing. <i>ACS Omega</i> 2025, 10 (32), 36613–36630. DOI: 10.1021/acsomega.5c05743. WOS:001544468500001.                                                                                                                               | WOS | 1 | 5.2 |
| Garcia, P. F.; Ramalho, A.; Vasco, J. C.; Ruben, R. B.; Capela, C. Determination of Dynamic Elastic Properties of 3D-Printed Nylon 12CF Using Impulse Excitation of Vibration. <i>Polymers</i> 2025, 17 (15), 2135. DOI: 10.3390/polym17152135. WOS:001548730500001.                                                                                                                                                                                           | WOS | 1 | 5.8 |
| Afshar, R.; Ebi, N.; Abali, B. E. Predicting the long-term viscoelastic response by short-term tests in polymers. <i>Discover Applied Sciences</i> 2025, 7 (8), 828. DOI: 10.1007/s42452-025-07468-2. WOS:001535219400001.                                                                                                                                                                                                                                     | WOS | 1 | 3.8 |
| Abou-Taleb, K. A. A.; Elkelish, A.; Mahdi, N. Z.; Lotfy, M. F.; Adss, A. M.; Taha, T. H.; Aljameel, S. S.; Mohamed, M. Y.; Albalwe, F. M.; Ahmed, R. F. Maximizing Polylactic Acid Bioplastic Yield from <i>Lactobacillus rhamnosus</i> L6 via Response Surface Methodology: Evaluating Antimicrobial Effectiveness, Physical, and Chemical Properties of PLA. <i>ACS Omega</i> 2025, 10 (29), 32038–32052. DOI: 10.1021/acsomega.5c03643. WOS:001530057300001 | WOS | 1 | 5.2 |
| Mencarelli, M.; Puggelli, L.; Volpe, Y.; Innocenti, B. SENSITIVITY ON 3D-PRINTED PARAMETERS OF STIFFNESS AND YOUNG'S MODULUS OF FDM-PRINTED PLA, STONEFILTM GRANITE AND WOODFILL FILAMENTS: A COMPARATIVE ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> 2025. DOI: 10.1142/S0219519425400548. WOS:001519100300001                                                                                                                              | WOS | 1 | 0.6 |

|                                                                                                                                                                                                                                                                                                                                                                                                     |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Kalaithendral, K.; Karuppudaiyan, S.; Roy, S. Evaluating the lattice structures performance under mechanical loading for the application of mandible scaffolds: An experimental study. <i>Proceedings of the Institution of Mechanical Engineers Part C-Journal of Mechanical Engineering Science</i> 2025, 239 (17), 6804–6815. DOI: 10.1177/09544062251342061. WOS:001508855800001                | WOS | 1 | 1.8 |
| Fontana, L.; Minetola, P.; Khandpur, M. S.; Giubilini, A. Evaluating Self-Produced PLA Filament for Sustainable 3D Printing: Mechanical Properties and Energy Consumption Compared to Commercial Alternatives. <i>Journal of Manufacturing and Materials Processing</i> 2025, 9 (6), 172. DOI: 10.3390/jmmp9060172. WOS:001516766100001.                                                            | WOS | 1 | 4   |
| Pozorski, Z.; Andrzejewski, J. Experimental determination of mechanical properties of 3D printed PLA. Methodology for testing orthotropic materials. <i>Polymer Testing</i> 2025, 149, 108860. DOI: 10.1016/j.polymertesting.2025.108860. WOS:001498571200001.                                                                                                                                      | WOS | 1 | 6.4 |
| Siyoun, Y. B.; Kindie, F. G.; Gebeyehu, M. A. A review of current research and prospects of fused deposition modelling: application, materials, performance, process variables, parameter optimization, and numerical study. <i>International Journal of Advanced Manufacturing Technology</i> 2025, 138 (5–6), 1675–1711. DOI: 10.1007/s00170-025-15615-7. WOS:001483439300001.                    | WOS | 1 | 3.7 |
| Ng, K. Y.; Muhammad, N.; Noor, S. N. F. M.; Rahim, S. Z. A.; Saleh, M. S.; Muhammad, N. A.; Ahmad, A. H.; Muduli, K. Effects of fused deposition modeling (FDM) printing parameters on quality aspects of polycaprolactone (PCL) for coronary stent applications: A review. <i>Journal of Biomaterials Applications</i> 2025, 40 (3), 327–344. DOI: 10.1177/08853282251334880. WOS:001469383900001. | WOS | 1 | 2.4 |
| García-Vilana, S.; Adrover-Monserrat, B.; Sánchez-Molina, D.; Llumà, J.; Jerez-Mesa, R.; Travieso-Rodríguez, J. A.; Martínez-González, E. Using acoustic emission to assess stiffness loss in thermoplastics processed through additive manufacturing. <i>Progress in Additive Manufacturing</i> 2025, 10 (10), 8053–8063. DOI: 10.1007/s40964-025-01092-7. WOS:001464438300001.                    | WOS | 1 | 5.2 |
| Lukoschek, S.; Frankenbach, L. A.; Cherif, C. Sustainable polymers for biobased yarns: process development in melt spinning for Nylon 6.10 and PLA. <i>Journal of the Textile Institute</i> 2025, 116 (12), 3275–3284. DOI: 10.1080/00405000.2025.2491394. WOS:001489819200001.                                                                                                                     | WOS | 1 | 1.6 |
| Tóth, C.; Molnár, K.; Virág, A. D. Short fiber reinforcement in material extrusion 3D printing: A meta-analysis review with insights into sustainable alternatives. <i>Polymer Composites</i> 2025, 46 (S2), S9–S47. DOI: 10.1002/pc.29850. WOS:001459810800001.                                                                                                                                    | WOS | 1 | 4.9 |
| Akgün, R. O.; Kaya, U. Production and Perceptions of 3D-Printed Bone Models in Undergraduate Anatomy Practical Educations. <i>International Journal of Morphology</i> 2025, 43 (2), 606–613. WOS:001505179700034.                                                                                                                                                                                   | WOS | 1 | 0.6 |
| Wang, X. Z.; Yuan, Q. M.; Qian, Q. N.; Wang, J. C.; Zhang, C. Y.; Qi, H. Electrospun PLA/DTAC Bicomponent Membranes for Low-Resistance and Antibacterial Air Filtration. <i>Polymers</i> 2025, 17 (6), 767. DOI: 10.3390/polym17060767. WOS:001452137400001.                                                                                                                                        | WOS | 1 | 5.8 |
| Mencarelli, M.; Sisella, M.; Puggelli, L.; Innocenti, B.; Volpe, Y. Sensitivity Analysis of 3D Printing Parameters on Mechanical Properties of Fused Deposition Modeling-Printed Polylactic Acid Parts. <i>Applied Mechanics</i> 2025, 6 (1), 17. DOI: 10.3390/applmech6010017. WOS:001453523600001.                                                                                                | WOS | 1 | 1.8 |
| Vendittoli, V.; Polini, W.; Walter, M. S. J. Multi-response optimization of the dimensional and mechanical properties of 3D-printed polylactic acid part by response surface methodology. <i>Progress in Additive Manufacturing</i> 2025, 10 (9), 6855–6872. DOI: 10.1007/s40964-025-01013-8. WOS:001422949400001.                                                                                  | WOS | 1 | 5.2 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Asahara, H.; Wu, W. T.; Asoh, T. A.; Hsu, Y.-I.; Inoue, T.; Uyama, H. Surface modification of polylactic acid using a photo-activated chlorine dioxide process: surface properties and dissimilar adhesion. <i>Materials Advances</i> 2025, 6 (5). DOI: 10.1039/d4ma01275e. WOS:001426926000001.                                                                                                                                                               | WOS | 1 | 5.8 |
| Guo, Y. M.; Wu, M. Z.; Ye, X. J.; Wei, S. C.; Huang, L. M.; Guo, H. L. High-Efficiency and Low-Resistance Melt-Blown/Electrospun PLA Composites for Air Filtration. <i>Polymers</i> 2025, 17 (3), 424. DOI: 10.3390/polym17030424. WOS:001418354200001.                                                                                                                                                                                                        | WOS | 1 | 5.8 |
| Gallardo, Y. N. R.; Karayazgan, B.; Mukai, E.; Soto, C. P.; Sukotjo, C.; Nima, G. Accuracy of fused deposition modeling using biodegradable material: A comparative study with four resin-based additive manufacturing methods. <i>Journal of Dentistry</i> 2025, 161, 105972. DOI: 10.1016/j.jdent.2025.105972. WOS:001549788800001.                                                                                                                          | WOS | 1 | 5.8 |
| Kumar, V.; Bharat, N.; Mishra, V.; Veeman, D.; Vellaisamy, M. Flexural Strength Evolution of 3D-Printed PLA Structures: An Experimental Investigation. <i>JOM</i> 2025, 77 (4), 2043–2053. DOI: 10.1007/s11837-024-07092-2. WOS:001394087200001.                                                                                                                                                                                                               | WOS | 1 | 2.3 |
| Valean, C.; Linul, E.; Rajak, D. K. Compressive performance of 3D-printed lightweight structures: Infill pattern optimization via Multiple-Criteria Decision Analysis method. <i>Results in Engineering</i> 2025, 25, 103936. DOI: 10.1016/j.rineng.2025.103936. WOS:001411097700001.                                                                                                                                                                          | WOS | 1 | 9.4 |
| Aveen, K. P.; Shivaramu, H. T.; Praveen, K. C.; Sridhar, D. R.; Thoran. Optimization of mechanical properties in 3D-printed PLA parts with honeycomb and cubic infill patterns using taguchi method. In <i>Materials Joining and Manufacturing Processes</i> , MJMP 2025; Satyanarayan, Hokamoto, K., Suresh, P. S., Swamy, M. C. K., Ed.; Materials Research Proceedings, Vol. 55; 2025; pp 118–129. DOI: 10.21741/9781644903612-18 WOS: 001747763500018      | WOS | 1 |     |
| Cheniour, H.; Yangui, M.; Vernieres-Hassimi, L.; El Hami, A.; Bouaziz, S. Effect of Filling Velocity Uncertainty on Additive Manufacturing Output Metrics. In <i>Advances in Integrated Design and Production III</i> , CPI 2024; Feki, N., BenAmar, M., Hentati, T., Saka, A., Zolghadri, M., Bouaziz, Z., BenSouf, M. A., Haddar, M., Ed.; Lecture Notes in Mechanical Engineering; 2025; pp 519–530. DOI: 10.1007/978-3-032-04742-7_52 WOS: 001709347400052 | WOS | 1 |     |
| Saldaña-Robles, A.; Sánchez-Angeles, A.; Balvantín-García, A. de J.; Núñez-Altamirano, D. A.; Capilla-González, G. Mechanical behavior of 3D printed polymers under tensile and bending loads. <i>Advances in Science and Technology-Research Journal</i> 2025, 19 (10), 371–384. DOI: 10.12913/22998624/207989. WOS:001564171100029.                                                                                                                          | WOS | 1 | 1.5 |
| Sahithi, V. V. D.; Srilatha, N. Optimization of FDM 3D Printer Process Parameters For PETG Material Using TOPSIS Technique. <i>Journal of Polymer &amp; Composites</i> 2025, 13, S601–S609. WOS:001461596000006.                                                                                                                                                                                                                                               | WOS | 1 | 0.3 |
| Hadziomerovic, N.; Sunje-Rizvan, A.; Maksimovic, A.; Satrovic, L.; Tandir, F. Use of 3D printed low-cost models for veterinary clinical skills training. <i>Open Veterinary Journal</i> 2025, 15 (2), 863–870. DOI: 10.5455/OVJ.2025.v15.i2.35. WOS:001451437100011.                                                                                                                                                                                           | WOS | 1 | 1.6 |
| Plamadiala, I.; Croitoru, C.; Pop, M. A.; Roata, I. C. Enhancing Polylactic Acid (PLA) Performance: A Review of Additives in Fused Deposition Modelling (FDM) Filaments. <i>Polymers</i> 2025, 17 (2), 191. DOI: 10.3390/polym17020191. WOS:001403796700001.                                                                                                                                                                                                   | WOS | 1 | 5.8 |
| Khan, W. A.; Hassan, M.; Ahmed, I.; Xiao, M. H.; Faraz, M. I.; Li, K.; Khan, I.; Muhammad, R.; Wu, H. Y.; Hussain, G. Insights into flexural and impact properties of polymer based materials printed through fused filament fabrication: Progress in the last decade. <i>International Journal of Lightweight Materials and Manufacture</i> 2024, 7 (6), 925–957. DOI: 10.1016/j.ijlmm.2024.05.011. WOS:001508614900001.                                      | WOS | 1 | 6.9 |

|                                                                                                                                                                                                                                                                                                                                                                |     |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Valean, C.; Marsavina, L.; Linul, E. Compressive behavior of additively manufactured lightweight structures: Infill density optimization based on energy absorption diagrams. <i>Journal of Materials Research and Technology-JMR&amp;T</i> 2024, 33, 4952–4967. DOI: 10.1016/j.jmrt.2024.10.143. WOS:001343319200001.                                         | WOS | 1 | 7.3 |
| Abbas, A.; Park, E. J.; Guo, J. Y.; Teo, Y. C.; Teo, P. Performance of bioresorbable peptide incorporated polymers produced for fused deposition modelling (FDM). <i>Next Materials</i> 2024, 5, 100223. DOI: 10.1016/j.nxmte.2024.100223. WOS:001466554300009.                                                                                                | WOS | 1 | 4.7 |
| Vochozka, V.; Cerny, P.; Sramhauser, K.; Spalek, F.; Kriz, P.; Cech, J.; Zoubek, T.; Bartos, P.; Kresan, J.; Stehlik, R. Fused Filament Fabrication 3D Printing Parameters Affecting the Translucency of Polylactic Acid Parts. <i>Polymers</i> 2024, 16 (20), 2862. DOI: 10.3390/polym16202862. WOS:001342648600001.                                          | WOS | 1 | 5.8 |
| de la Rosa, S.; Rodríguez-Parada, L.; Ponce, M. B.; Ares, P. F. M. The Abrasive Water Jet Cutting Process of Carbon-Fiber-Reinforced Polylactic Acid Samples Obtained by Additive Manufacturing: A Comparative Analysis. <i>Journal of Composites Science</i> 2024, 8 (10), 437. DOI: 10.3390/jcs8100437. WOS:001341840800001.                                 | WOS | 1 | 4.6 |
| Faroze, F.; Srivastava, V.; Batish, A. Experimental investigations and dimensional analysis modeling for mechanical properties of polycarbonate samples developed by fused filament fabrication process. <i>International Journal of Advanced Manufacturing Technology</i> 2024, 134 (11–12), 5537–5558. DOI: 10.1007/s00170-024-14446-2. WOS:001318029100001. | WOS | 1 | 3.7 |
| Obaidat, S.; Tamimi, M. F.; Mumani, A.; Alkhaleel, B. An artificial neural network-based predictive model for tensile behavior estimation under uncertainty for fused deposition modeling. <i>Rapid Prototyping Journal</i> 2024, 30 (10), 2056–2070. DOI: 10.1108/RPJ-04-2024-0168. WOS:001310761500001.                                                      | WOS | 1 | 3.3 |
| Vendittoli, V.; Polini, W.; Walter, M. S. J. Two performance indices of parts in Polylactic Acid manufactured through a material extrusion process: analysis of their dependence on process parameters. <i>International Journal of Advanced Manufacturing Technology</i> 2024, 134 (9–10), 4689–4699. DOI: 10.1007/s00170-024-14380-3. WOS:001313599300001.   | WOS | 1 | 3.7 |
| Barrera-Quintero, V.; Correa-Gómez, E.; Caballero-Ruiz, A.; Ruiz-Huerta, L. Influence of Infill Patterns on the Shape Memory Effect of Cold-Programmed Additively Manufactured PLA. <i>Polymers</i> 2024, 16 (17), 2460. DOI: 10.3390/polym16172460. WOS:001311470100001.                                                                                      | WOS | 1 | 5.8 |
| Porcaro, R.; Fontana, F.; Ciotti, M.; Mele, M.; Pisaneschi, G.; Campana, G.; Zucchelli, A.; Fiorini, M. Warpage evaluation and mechanical characterisation of modified polyamide-6 specimens produced by Arburg plastic freeformer. <i>Progress in Additive Manufacturing</i> 2025, 10 (4), 2383–2395. DOI: 10.1007/s40964-024-00756-0. WOS:001297256400001.   | WOS | 1 | 5.2 |
| Kouassi, M. C.; Kallel, A.; Abdallah, A. B.; Nouira, S.; Ballut, S.; Fitoussi, J.; Shirinbayan, M. Assessment of fused deposition modeling (FDM) parameters for fabrication of solid and hollow microneedles using polylactic acid (PLA). <i>Polymers for Advanced Technologies</i> 2024, 35 (8), e6548. DOI: 10.1002/pat.6548. WOS:001294722700001.           | WOS | 1 | 3.8 |
| Saravanamuthukumar, P.; Kaaviya, J.; Palaniyappan, S.; Sivakumar, N. K.; Bodaghi, M.; Rahaman, M.; Pandiaraj, S. Compressive strength performance of 3D printed PLA/almond shell particles reinforced PLA multi-material composite. <i>Journal of Elastomers and Plastics</i> 2024, 56 (6), 786–806. DOI: 10.1177/00952443241270804. WOS:001286096700001.      | WOS | 1 | 2.4 |



|                                                                                                                                                                                                                                                                                                                                                                             |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Kouassi, M. C.; Ben Abdallah, A.; Nouira, S.; Ballut, S.; Fitoussi, J.; Shirinbayan, M.; Kallel, A. FDM printing of microneedles based on biocompatible and biodegradable thermoplastic polymers. <i>Journal of Applied Polymer Science</i> 2024, 141 (41). DOI: 10.1002/app.56067. WOS:001284646800001.                                                                    | WOS | 1 | 3.1 |
| Johann, K. S.; Böhm, F.; Kapernaum, N.; Giesselmann, F.; Bonten, C. Orientation of Liquid Crystalline Polymers after Filament Extrusion and after Passing through a 3D Printer Nozzle. <i>ACS Applied Polymer Materials</i> 2024, 6 (16), 10006–10018. DOI: 10.1021/acsapm.4c01921. WOS:001284139600001.                                                                    | WOS | 1 | 5.2 |
| El Mehtedi, M.; Buonadonna, P.; El Mohtadi, R.; Loi, G.; Aymerich, F.; Carta, M. Optimizing Milling Parameters for Enhanced Machinability of 3D-Printed Materials: An Analysis of PLA, PETG, and Carbon-Fiber-Reinforced PETG. <i>Journal of Manufacturing and Materials Processing</i> 2024, 8 (4), 131. DOI: 10.3390/jmmp8040131. WOS:001305647100001.                    | WOS | 1 | 4   |
| Boloz, L. Generating Models for Numerical Strength Tests of 3D Printed Elements. <i>Management Systems in Production Engineering</i> 2024, 32 (3), 372–379. DOI: 10.2478/mspe-2024-0035. WOS:001307941400006.                                                                                                                                                               | WOS | 1 | 1.6 |
| Thornell, T. L.; Wedgeworth, D. N.; Antwine, M. D.; Burroughs, J. F. Influence of Carbonyl Iron Particles (CIP) and Glass Microspheres on Thermal Properties of Poly(lactic acid) (PLA). <i>Polymers</i> 2024, 16 (15), 2194. DOI: 10.3390/polym16152194. WOS:001287056000001.                                                                                              | WOS | 1 | 5.8 |
| Shi, L. K.; Li, P. C.; Liu, C. R.; Zhu, J. X.; Zhang, T. H.; Xiong, G. An improved tensile strength and failure mode prediction model of FDM 3D printing PLA material: Theoretical and experimental investigations. <i>Journal of Building Engineering</i> 2024, 90, 109389. DOI: 10.1016/j.jobbe.2024.109389. WOS:001235177800004.                                         | WOS | 1 | 8.1 |
| Ranaiefar, M.; Singh, M.; Salem, J. A.; Halbig, M. C. Compressive Properties of Additively Manufactured Metal-Reinforced PLA and ABS Composites. <i>Polymers</i> 2024, 16 (14), 2008. DOI: 10.3390/polym16142008. WOS:001277686700001.                                                                                                                                      | WOS | 1 | 5.8 |
| Martins, R. F.; Branco, R.; Martins, M.; Macek, W.; Marciniak, Z.; Silva, R.; Trindade, D.; Moura, C.; Franco, M.; Malça, C. Mechanical Properties of Additively Manufactured Polymeric Materials-PLA and PETG-For Biomechanical Applications. <i>Polymers</i> 2024, 16 (13), 1868. DOI: 10.3390/polym16131868. WOS:001269721300001.                                        | WOS | 1 | 5.8 |
| Besliu-Bancescu, I.; Tamasag, I. Heat Treatment Effect on Some Mechanical Properties of FDM-Manufactured PCL Wood-Based Biopolymer. <i>Advances in Polymer Technology</i> 2024, 2024, 7432507. DOI: 10.1155/2024/7432507. WOS:001258096800001.                                                                                                                              | WOS | 1 | 3.7 |
| Öztürk, O.; Sen, M. A.; Aydin, M. THE INFLUENCE OF FUSED FILAMENT FABRICATION PARAMETERS ON THE FRACTURE BEHAVIOR OF PLA SPECIMENS CONSIDERING ENERGY CONSUMPTION. <i>Konya Journal of Engineering Sciences</i> 2024, 12 (2). DOI: 10.36306/konjes.1402235. WOS:001312977700012.                                                                                            | WOS | 1 | 0.6 |
| Fal, J.; Bulanda, K.; Oleksy, M.; Zyla, G. Effect of Bentonite on the Electrical Properties of a Polylactide-Based Nanocomposite. <i>Polymers</i> 2024, 16 (10), 1372. DOI: 10.3390/polym16101372. WOS:001233207800001.                                                                                                                                                     | WOS | 1 | 5.8 |
| Parnian, P.; Russo, P.; Squillace, A.; D'Amore, A. The process-structure-property relationship of 3D printed G-Polymer using fused filament fabrication technique. <i>Polymer Engineering and Science</i> 2024, 64 (7), 3073–3087. DOI: 10.1002/pen.26748. WOS:001201836100001.                                                                                             | WOS | 1 | 3.6 |
| Hawthorn, B.; Mummery, A.; Mahmoodi, N.; Khan, M. F.; Triantaphyllou, A.; Dyson, R. J.; Thomas-Seale, L. E. J. Tailoring surface roughness through the temporal variation of additive manufacturing process parameters. <i>International Journal of Advanced Manufacturing Technology</i> 2024, 132 (7–8), 3553–3566. DOI: 10.1007/s00170-024-13532-9. WOS:001201329800003. | WOS | 1 | 3.7 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Rufo-Martín, C.; Mantecón, R.; Youssef, G.; Miguelez, H.; Díaz-Alvarez, J. Multiscale characterization of additively manufactured PMMA: the influence of sterilization. <i>Rapid Prototyping Journal</i> 2024, 30 (4), 798–810. DOI: 10.1108/RPJ-10-2023-0364. WOS:001199758700001.                                                                                                                                                    | WOS | 1 | 3.3 |
| Golubovic, Z.; Bojovic, B.; Kirin, S.; Milovanovic, A.; Petrov, L.; Andelkovic, B.; Sofrenic, I. Effect of Aging on Tensile and Chemical Properties of Polylactic Acid and Polylactic Acid-Like Polymer Materials for Additive Manufacturing. <i>Polymers</i> 2024, 16 (8), 1035. DOI: 10.3390/polym16081035. WOS:001210426300001.                                                                                                     | WOS | 1 | 5.8 |
| Ciobanu, R.; Rizescu, C. I.; Rizescu, D.; Gramescu, B. Surface Durability of 3D-Printed Polymer Gears. <i>Applied Sciences-Basel</i> 2024, 14 (6), 2531. DOI: 10.3390/app14062531. WOS:001191798300001.                                                                                                                                                                                                                                | WOS | 1 | 2.9 |
| Fu, Z.; Salo, T.; Guzman, R. C.; Vanhala, J.; Mäntysalo, M. Hybrid Material Extrusion Process Optimization for Printability and Adhesion in 3D-Printed Electronics. <i>Advanced Engineering Materials</i> 2024, 26 (6). DOI: 10.1002/adem.202301714. WOS:001149790600001.                                                                                                                                                              | WOS | 1 | 3.6 |
| Maheshwari, S.; Alam, Z.; Singh, S. S. Investigating the large strain compression properties of PLA parts manufactured by FDM using experiments and constitutive modeling. <i>Rapid Prototyping Journal</i> 2024, 30 (3), 555–570. DOI: 10.1108/RPJ-08-2023-0286. WOS:001146870700001.                                                                                                                                                 | WOS | 1 | 3.3 |
| Valean, C.; Baban, M.; Rajak, D. K.; Linul, E. Effect of multiple process parameters on optimizing tensile properties for material extrusion-based additive manufacturing. <i>Construction and Building Materials</i> 2024, 414, 135015. DOI: 10.1016/j.conbuildmat.2024.135015. WOS:001168925700001.                                                                                                                                  | WOS | 1 | 8.9 |
| Ekim, O.; Bakici, C.; Akçay, A.; Algin, O.; Oto, C. The Efficiency of 3D-Printed Dog Brain Ventricular Models from 3 Tesla (3T) Magnetic Resonance Imaging (MRI) for Neuroanatomy Education. <i>Pakistan Veterinary Journal</i> 2024, 44 (2), 430–436. DOI: 10.29261/pakvetj/2024.168. WOS:001267786500005.                                                                                                                            | WOS | 1 | 6.5 |
| Simunovic, L.; Jurela, A.; Sudarevic, K.; Bacic, I.; Haramina, T.; Mestrovic, S. Influence of Post-Processing on the Degree of Conversion and Mechanical Properties of 3D-Printed Polyurethane Aligners. <i>Polymers</i> 2024, 16 (1), 17. DOI: 10.3390/polym16010017. WOS:001140478300001.                                                                                                                                            | WOS | 1 | 5.8 |
| Markovic, M. P.; Cingesar, I. K.; Vrsaljko, D. Maximizing Mechanical Performance of 3D Printed Parts Through Process Parameter Optimization. <i>3D Printing and Additive Manufacturing</i> 2024, 11 (6), E2062–E2074. DOI: 10.1089/3dp.2023.0170. WOS:001150703400001.                                                                                                                                                                 | WOS | 1 | 2.5 |
| Tientcheu, S. W. T.; Djouda, J. M.; Bouaziz, M. A.; Lacazedieu, E. A review on fused deposition modeling materials with analysis of key process parameters influence on mechanical properties. <i>International Journal of Advanced Manufacturing Technology</i> 2024, 130 (5–6), 2855–2876. DOI: 10.1007/s00170-023-12823-x. WOS:001133102900003.                                                                                     | WOS | 1 | 3.7 |
| da Silva Fortes, A. G. D.; de Abreu, I. R.; de Sousa Nascimento Junior, R.; de Franca, R. A.; dos Santos Rosa, A. C. F. D.; de Farias Braz, C. J.; de Carvalho, L. H.; Barbosa, R.; Alves, T. S. Development of biodegradable filaments based on agro-industrial waste and evaluation of process parameters in final properties. <i>Polymer Composites</i> 2024, 45 (4), 3683–3699. DOI: 10.1002/pc.28020. WOS:001125042400001.        | WOS | 1 | 4.9 |
| Rodríguez-Reyna, S. L.; Díaz-Aguilera, J. H.; Acevedo-Parra, H. R.; García, C. J.; Gutierrez-Castañeda, E. J.; Tapia, F. Design and optimization methodology for different 3D processed materials (PLA, ABS and carbon fiber reinforced nylon PA12) subjected to static and dynamic loads. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> 2024, 150, 106257. DOI: 10.1016/j.jmbbm.2023.106257. WOS:001134462600001. | WOS | 1 | 4.1 |

|                                                                                                                                                                                                                                                                                                                                                                                   |     |   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Kowalski, L.; Bemberek, M.; Uhrynski, A.; Bajda, S. Comparative study of experimental thermographic data and finite element analysis on temperature evolution of PET-G layer deposition during additive manufacturing process. <i>Bulletin of the Polish Academy of Sciences-Technical Sciences</i> 2023, 71 (6), e147926. DOI: 10.24425/bpasts.2023.147926. WOS:001140388900022. | WOS | 1 | 1.1 |
| Gkartzou, E.; Kontiza, A.; Zafeiris, K.; Mantzavinou, E.; Charitidis, C. A. A Methodological Framework for Assessing the Influence of Process Parameters on Strand Stability and Functional Performance in Fused Filament Fabrication. <i>Materials</i> 2023, 16 (24), 7530. DOI: 10.3390/ma16247530. WOS:001131420900001.                                                        | WOS | 1 | 3.7 |
| Wang, Y. Q.; Tang, M. K.; Zhou, Z.; Wang, C. J. Study on the temperature field distribution of the interface and process parameter optimization for material extrusion of PLA. <i>Polymer Engineering and Science</i> 2024, 64 (2), 718–732. DOI: 10.1002/pen.26579. WOS:001111706500001.                                                                                         | WOS | 1 | 3.6 |
| Kargar, E.; Ghasemi-Ghalebahman, A. Experimental investigation on fatigue life and tensile strength of carbon fiber-reinforced PLA composites based on fused deposition modeling. <i>Scientific Reports</i> 2023, 13 (1), 18194. DOI: 10.1038/s41598-023-45046-x. WOS:001095925700004.                                                                                            | WOS | 1 | 4.9 |
| Portoaca, A. I.; Ripeanu, G. R.; Nae, I.; Tanase, M. THE INFLUENCE OF 3D PRINTING PARAMETERS AND HEAT TREATMENT ON TRIBOLOGICAL BEHAVIOR. <i>Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering</i> 2023, 66 (5), 537–546. WOS:001267255200037.                                                                                                        | WOS | 1 | 0.1 |
| Zisopol, D. G.; Portoaca, A. I.; Tanase, M. Improving the Impact Resistance through Annealing in PLA 3D Printed Parts. <i>Engineering Technology &amp; Applied Science Research</i> 2023, 13 (5), 11768–11772. DOI: 10.48084/etasr.6281. WOS:001106870500001.                                                                                                                     | WOS | 1 |     |
| Al-Tamimi, A. A.; Pandzic, A.; Kadric, E. Investigation and Prediction of Tensile, Flexural, and Compressive Properties of Tough PLA Material Using Definitive Screening Design. <i>Polymers</i> 2023, 15 (20), 4169. DOI: 10.3390/polym15204169. WOS:001097781700001.                                                                                                            | WOS | 1 | 5.8 |
| Thomazi, E.; Roman, C., Jr.; Gamba, T. O.; Perottoni, C. A.; Zorzi, J. E. PLA-based ceramic composites for 3D printing of anthropomorphic simulators. <i>International Journal of Advanced Manufacturing Technology</i> 2023, 128 (11–12), 5289–5300. DOI: 10.1007/s00170-023-12206-2. WOS:001059647300002.                                                                       | WOS | 1 | 3.7 |
| Bakhtiari, H.; Nikzad, M.; Tolouei-Rad, M. Influence of Three-Dimensional Printing Parameters on Compressive Properties and Surface Smoothness of Polylactic Acid Specimens. <i>Polymers</i> 2023, 15 (18), 3827. DOI: 10.3390/polym15183827. WOS:001072617500001.                                                                                                                | WOS | 1 | 5.8 |
| Croccolo, D.; De Agostinis, M.; Fini, S.; Mele, M.; Olmi, G.; Campana, G. Effects of infill temperature on the tensile properties and warping of 3D-printed polylactic acid. <i>Progress in Additive Manufacturing</i> 2024, 9 (4), 919–934. DOI: 10.1007/s40964-023-00492-x. WOS:001059917100001.                                                                                | WOS | 1 | 5.2 |
| Mecheter, A.; Tarlochan, F. Fused Filament Fabrication Three-Dimensional Printing: Assessing the Influence of Geometric Complexity and Process Parameters on Energy and the Environment. <i>Sustainability</i> 2023, 15 (16), 12319. DOI: 10.3390/su151612319. WOS:001055914700001.                                                                                               | WOS | 1 | 4.1 |
| Zisopol, D. G.; Portoaca, A. I.; Tanase, M. Dimensional Accuracy of 3D Printed Dog-bone Tensile Samples: A Case Study. <i>Engineering Technology &amp; Applied Science Research</i> 2023, 13 (4), 11400–11405. DOI: 10.48084/etasr.6060. WOS:001049834500050.                                                                                                                     | WOS | 1 |     |
| Faidallah, R. F.; Hanon, M. M.; Vashist, V.; Habib, A.; Szakál, Z.; Oldal, I. Effect of Different Standard Geometry Shapes on the Tensile Properties of 3D-Printed Polymer. <i>Polymers</i> 2023, 15 (14), 3029. DOI: 10.3390/polym15143029. WOS:001038983300001.                                                                                                                 | WOS | 1 | 5.8 |

|                                                                                                                                                                                                                                                                                                                                                                                    |     |   |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| Stojkovic, J. R.; Turudija, R.; Vitkovic, N.; Gorski, F.; Pacurar, A.; Plesa, A.; Ianosi-Andreeva-Dimitrova, A.; Pacurar, R. An Experimental Study on the Impact of Layer Height and Annealing Parameters on the Tensile Strength and Dimensional Accuracy of FDM 3D Printed Parts. <i>Materials</i> 2023, 16 (13), 4574. DOI: 10.3390/ma16134574. WOS:001028415000001.            | WOS | 1 | 3.7 |
| Petousis, M.; Moutsopoulou, A.; Korlos, A.; Papadakis, V.; Mountakis, N.; Tsikritzis, D.; Ntintakis, I.; Vidakis, N. The Effect of Nano Zirconium Dioxide Optimized Content in Polyamide 12 (PA12) and Polylactic Acid (PLA) Matrices on Their Thermomechanical Response in 3D Printing. <i>Nanomaterials</i> 2023, 13 (13), 1906. DOI: 10.3390/nano13131906. WOS:001028200700001. | WOS | 1 | 4.8 |
| Frunzaverde, D.; Cojocaru, V.; Bacescu, N.; Ciubotariu, C.-R.; Miclosina, C.-O.; Turiac, R. R.; Marginean, G. The Influence of the Layer Height and the Filament Color on the Dimensional Accuracy and the Tensile Strength of FDM-Printed PLA Specimens. <i>Polymers</i> 2023, 15 (10), 2377. DOI: 10.3390/polym15102377. WOS:000997089300001.                                    | WOS | 1 | 5.8 |
| Gebrehiwot, S. Z. Z.; Espinosa-Leal, L.; Andersson, M.; Remes, H. On the Short-Term Creep and Recovery Behaviors of Injection Molded and Additive-Manufactured Tough Polylactic Acid Polymer. <i>Journal of Materials Engineering and Performance</i> 2023, 32 (22), 10412–10430. DOI: 10.1007/s11665-023-08278-6. WOS:000986846700006.                                            | WOS | 1 | 2.6 |
| Dezaki, M. L.; Bodaghi, M.; Serjouei, A.; Zolfagharian, A. Green 3D-printed lattice-shaped suspension arms for RC cars. <i>Progress in Additive Manufacturing</i> 2024, 9 (1), 69–83. DOI: 10.1007/s40964-023-00439-2. WOS:000964986700001.                                                                                                                                        | WOS | 1 | 5.2 |
| Benamira, M.; Benhassine, N.; Ayad, A.; Dekhane, A. Investigation of printing parameters effects on mechanical and failure properties of 3D printed PLA. <i>Engineering Failure Analysis</i> 2023, 148, 107218. DOI: 10.1016/j.engfailanal.2023.107218. WOS:000969533800001.                                                                                                       | WOS | 1 | 7   |
| Foroughi, A. H.; Valeri, C.; Jiang, D. Y.; Ning, F. D.; Razavi, M.; Razavi, M. J. Understanding compressive viscoelastic properties of additively manufactured PLA for bone-mimetic scaffold design. <i>Medical Engineering &amp; Physics</i> 2023, 114, 103972. DOI: 10.1016/j.medengphy.2023.103972. WOS:000972446100001.                                                        | WOS | 1 | 2.4 |
| Hua, L. Q.; Wang, X.; Ding, L. N.; Zeng, S. H.; Liu, J. X.; Wu, Z. S. Effects of fabrication parameters on the mechanical properties of short basalt-fiber-reinforced thermoplastic composites for fused deposition modeling-based 3D printing. <i>Polymer Composites</i> 2023, 44 (6), 3341–3357. DOI: 10.1002/pc.27325. WOS:000955819600001.                                     | WOS | 1 | 4.9 |
| Dreier, T.; Riaz, A.; Ahrend, A.; Polley, C.; Bode, S.; Milkereit, B.; Seitz, H. 3D printing of aluminum oxide via composite extrusion modeling using a ceramic injection molding feedstock. <i>Materials &amp; Design</i> 2023, 227, 111806. DOI: 10.1016/j.matdes.2023.111806. WOS:001060562300001.                                                                              | WOS | 1 | 8.2 |
| Ulkir, O. Energy-Consumption-Based Life Cycle Assessment of Additive-Manufactured Product with Different Types of Materials. <i>Polymers</i> 2023, 15 (6), 1466. DOI: 10.3390/polym150601466. WOS:000958544200001.                                                                                                                                                                 | WOS | 1 | 5.8 |
| Ceretti, D. V. A.; Edeleva, M.; Cardon, L.; D'hooge, D. R. Molecular Pathways for Polymer Degradation during Conventional Processing, Additive Manufacturing, and Mechanical Recycling. <i>Molecules</i> 2023, 28 (5), 2344. DOI: 10.3390/molecules28052344. WOS:000947831300001.                                                                                                  | WOS | 1 | 5.1 |
| Patterson, A. E.; Chadha, C.; Jasiuk, I. M.; Allison, J. T. Tensile behavior of individual fibers and films made via material extrusion additive manufacturing. <i>Next Materials</i> 2023, 1 (1), 100002. DOI: 10.1016/j.nxmte.2023.100002. WOS:001466488000004.                                                                                                                  | WOS | 1 | 4.7 |

|   |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                     |     |   |      |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|------|
|   |                                                                                                                                                                                                                                                                                                                      | Wu, Y. Z.; Fang, J. G.; Wu, C.; Li, C. Y.; Sun, G. Y.; Li, Q. Additively manufactured materials and structures: A state-of-the-art review on their mechanical characteristics and energy absorption. <i>International Journal of Mechanical Sciences</i> 2023, 246, 108102. DOI: 10.1016/j.ijmecsci.2023.108102. WOS:000935277200001.               | WOS | 1 | 11.4 |
|   |                                                                                                                                                                                                                                                                                                                      | Moradi, M.; Dezaki, M. L.; Kheyri, E.; Rasouli, S. A.; Attar, M. A.; Bodaghi, M. Simultaneous FDM 4D printing and magnetizing of iron-filled polylactic acid polymers. <i>Journal of Magnetism and Magnetic Materials</i> 2023, 568, 170425. DOI: 10.1016/j.jmmm.2023.170425. WOS:000961147500001.                                                  | WOS | 1 | 3    |
|   |                                                                                                                                                                                                                                                                                                                      | Orellana-Barrasa, J.; Ferrández-Montero, A.; Boccaccini, A. R.; Ferrari, B.; Pastor, J. Y. The Mechanical, Thermal, and Chemical Properties of PLA-Mg Filaments Produced via a Colloidal Route for Fused-Filament Fabrication. <i>Polymers</i> 2022, 14 (24), 5414. DOI: 10.3390/polym14245414. WOS:000904148500001.                                | WOS | 1 | 5.8  |
|   |                                                                                                                                                                                                                                                                                                                      | Sola, A.; Chong, W. J.; Simunec, D. P.; Li, Y.; Trinch, A.; Kyratzis, I.; Wen, C. Open challenges in tensile testing of additively manufactured polymers: A literature survey and a case study in fused filament fabrication. <i>Polymer Testing</i> 2023, 117, 107859. DOI: 10.1016/j.polymertesting.2022.107859. WOS:000935580100002.             | WOS | 1 | 6.4  |
|   |                                                                                                                                                                                                                                                                                                                      | Selvam, A.; Mayilswamy, S.; Whenish, R.; Naresh, K.; Shanmugam, V.; Das, O. Multi-objective optimization and prediction of surface roughness and printing time in FFF printed ABS polymer. <i>Scientific Reports</i> 2022, 12 (1), 16887. DOI: 10.1038/s41598-022-20782-8. WOS:000865124900034.                                                     | WOS | 1 | 4.9  |
|   |                                                                                                                                                                                                                                                                                                                      | Puppi, D.; Pecorini, G.; Parrini, G. Additive Manufacturing of Anatomical Poly(D,L-lactide) Scaffolds. <i>Polymers</i> 2022, 14 (19), 4057. DOI: 10.3390/polym14194057. WOS:000867303000001.                                                                                                                                                        | WOS | 1 | 5.8  |
|   |                                                                                                                                                                                                                                                                                                                      | Picha, T.; Papezova, S.; Picha, S. Evaluation of Relative Permittivity and Loss Factor of 3D Printing Materials for Use in RF Electronic Applications. <i>Processes</i> 2022, 10 (9), 1881. DOI: 10.3390/pr10091881. WOS:000858818800001.                                                                                                           | WOS | 1 | 3.4  |
|   |                                                                                                                                                                                                                                                                                                                      | Velmurugan, C.; Kumar, V. P. Steady state thermal analysis of debinding process used in metal fused filament fabrication (MF3). <i>Advances in Materials and Processing Technologies</i> 2024, 10 (1), 131–141. DOI: 10.1080/2374068X.2022.2106652. WOS:000834940200001.                                                                            | WOS | 1 | 2.3  |
|   |                                                                                                                                                                                                                                                                                                                      | da Silva, M. A.; Junior, B. A.; Brito Medeiros, R. R.; Pinheiro, P. R. A Neuroevolutionary Model to Estimate the Tensile Strength of Manufactured Parts Made by 3D Printing. <i>Algorithms</i> 2022, 15 (8), 263. DOI: 10.3390/a15080263. WOS:000846423700001.                                                                                      | WOS | 1 | 2.6  |
|   |                                                                                                                                                                                                                                                                                                                      | Butt, J.; Bhaskar, R.; Mohaghegh, V. Investigating the Influence of Material Extrusion Rates and Line Widths on FFF-Printed Graphene-Enhanced PLA. <i>Journal of Manufacturing and Materials Processing</i> 2022, 6 (3), 57. DOI: 10.3390/jmmp6030057. WOS:000816550700001.                                                                         | WOS | 1 | 4    |
|   |                                                                                                                                                                                                                                                                                                                      | Billah, K. M. M.; Sarker, M. R.; Gonzalez, M. B.; Ramirez, J. A.; Hamidi, Y. K. IMPACT OF PROCESSING PARAMETERS IN MECHANICAL PROPERTIES OF THE ADDITIVELY MANUFACTURED ACRYLONITRILE STYRENE ACRYLATE. <i>Proceedings of ASME 2022 International Mechanical Engineering Congress and Exposition, IMECE2022, Vol 2A 2022</i> . WOS:001215391900014. | WOS | 1 |      |
|   |                                                                                                                                                                                                                                                                                                                      | Zhai, X. Y.; Jin, L. C.; Jiang, J. C. A survey of additive manufacturing reviews. <i>Materials Science in Additive Manufacturing</i> 2022, 1 (4), 21. DOI: 10.18063/msam.v1i4.21. WOS:001343444900004.                                                                                                                                              | WOS | 1 | 4.4  |
| 8 | Cojocaru, V.; Frunzaverde, D.; Nedelcu, D.; Miclosina, C.-O.; Marginean, G. Study Regarding the Influence of the Printing Orientation Angle on the Mechanical Behavior of Parts Manufactured by Material Jetting. <i>Materiale Plastice</i> 2021, 58 (3), 198–209. DOI: 10.37358/MP.21.3.5517. WOS: 000705010100007. | I. Singh, D.; Singh, M. P.; Shrivastava, Y. Influence of part orientation on the quality and performance of 3D printed components: a comprehensive review. <i>Progress in Additive Manufacturing</i> 2025, 10 (12), 10649–10684. DOI: 10.1007/s40964-025-01256-5. WOS: 001530182900001.                                                             | WOS | 1 | 5.2  |

|    |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                        |     |   |      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|------|
|    |                                                                                                                                                                                                                                                                      | 2. Kazimierska-Drobny, K.; Szala, G.; Musial, J.; Macko, M.; Karasiewicz, T.; Lewandowski, J. Mechanical Properties and Material Characteristics of 3D-Printed Titanium Capsules for Cancer Drug Delivery Applications. <i>Materials</i> 2025, <i>18</i> (13), 2969. DOI: 10.3390/ma18132969. WOS: 001526390300001.                                    | WOS | 1 | 3.7  |
|    |                                                                                                                                                                                                                                                                      | 3. Bellamkonda, P. N.; Dwivedy, M. Influence of printing orientation on properties of 3D-printed parts produced by polymer jetting technology. <i>Journal of Elastomers and Plastics</i> 2025, <i>57</i> (4), 407–429. DOI: 10.1177/00952443251317089. WOS: 001409133000001.                                                                           | WOS | 1 | 2.4  |
| 9  | Nedelcu, D.; <b>Cojocaru, V.*</b> ; Avasiloaie, R.-C. Numerical Investigation of Nozzle Jet Flow in a Pelton Microturbine. <i>Machines</i> 2021, <i>9</i> (8), 158. DOI: 10.3390/machines9080158. WOS: 000689390300001.                                              | Satyaj, S.; Neopane, HP; Chitrakar, S.; Abregu, J.; Bhattarai, BS; Dahlhaug, OG Experimental study for investigation of pressure distribution in a Pelton injector under needle erosion. <i>Engineering Failure Analysis</i> 2026, 191, Article No. 110760. DOI: 10.1016/j.engfailanal.2026.110760. WoS: 001722733400001.                              | WOS | 1 | 7    |
|    |                                                                                                                                                                                                                                                                      | Wang, XD; Wang, X.; Hu, SD; Wang, WQ; Yan, Y. Study on the hydrodynamic characteristics of a six-nozzle ultra-large capacity Pelton turbine during the switching of the operating nozzles. <i>Energy</i> 2026, 347, Article No. 140328. DOI: 10.1016/j.energy.2026.140328. WoS: 001691599300007.                                                       | WOS | 1 | 10.1 |
|    |                                                                                                                                                                                                                                                                      | Hua, H.; Ning, C. Z.; Li, L. H.; Lu, J. X.; Shen, T. Y.; Liu, X. B. Investigation of the runner water film hydraulic instability and structural crack on the Pelton turbine runner. <i>Flow Measurement and Instrumentation</i> 2026, 108, 103160. DOI: 10.1016/j.flowmeasinst.2025.103160. WOS: 001645217000001.                                      | WOS | 1 | 3.3  |
|    |                                                                                                                                                                                                                                                                      | Liu, Y. X.; Zheng, Q.; Guo, L. H.; Wei, X. Z.; Xu, B.; Wang, H. M.; Qin, D. Q.; Han, L. Investigation of the Effects of the Jet Impingement Angle on Torque Generation at the Suction Surface of a Pelton Turbine Bucket. <i>Journal of Applied Fluid Mechanics</i> 2025, 18 (10), 2535–2549. DOI: 10.47176/jafm.18.10.3435. WOS: 001545823000007.     | WOS | 1 | 1.7  |
|    |                                                                                                                                                                                                                                                                      | Li, C. X.; Li, F.; Shen, P. R.; Guo, P. C. Knowledge discovery of injector geometry effects on Pelton turbine erosion: Approaches for efficient high-head water utilization. <i>Renewable Energy</i> 2025, 252, 123524. DOI: 10.1016/j.renene.2025.123524. WOS: 001504093100003.                                                                       | WOS | 1 | 9.1  |
|    |                                                                                                                                                                                                                                                                      | Wang, X. D.; Huang, X. W.; Hu, S. D.; Wang, X.; Wang, W. Q.; Yan, Y. Numerical study on the transient flow in a six-nozzle Pelton turbine during the load rejection process. <i>Physics of Fluids</i> 2025, 37 (4), 045159. DOI: 10.1063/5.0267358. WOS: 001476938300003.                                                                              | WOS | 1 | 3.8  |
|    |                                                                                                                                                                                                                                                                      | Geeri, S.; Kolakoti, A.; Samuel, O. D.; Abbas, M.; Aigba, P. A.; Ajimotokan, H. A.; Enweremadu, C. C.; Elboughdiri, N.; Mujtaba, M. A. Investigation of flow behaviour in the nozzle of a Pelton wheel: Effects and analysis of influencing parameters. <i>Heliyon</i> 2024, 10 (8), e28986. DOI: 10.1016/j.heliyon.2024.e28986. WOS: 001233194000001. | WOS | 1 | 3.6  |
|    |                                                                                                                                                                                                                                                                      | Han, L.; Guo, C. L.; Yuan, Y. F.; Li, D. Y.; Liu, Y. X.; Iranzo, A.; Qin, D. Q. Investigation on sediment erosion in bucket region of Pelton turbine considering cavitation. <i>Physics of Fluids</i> 2024, 36 (2), 023305. DOI: 10.1063/5.0179387. WOS: 001156433000012.                                                                              | WOS | 1 | 3.8  |
|    |                                                                                                                                                                                                                                                                      | Huang, Y.; Deng, F. X.; Deng, H. M.; Qing, Q. W.; Qin, M. J.; Liu, J. T.; Yu, Z. S.; Pang, J. Y.; Liu, X. B. Study on Internal Flow Characteristics and Abrasive Wear of Pelton Turbine in Sand Laden Water. <i>Processes</i> 2023, 11 (5), 1570. DOI: 10.3390/pr11051570. WOS: 000996574100001.                                                       | WOS | 1 | 3.4  |
|    |                                                                                                                                                                                                                                                                      | Chen, L. H.; Cheng, M. Z.; Cai, Y.; Guo, L. W.; Gao, D. R. Design and Optimization of High-Pressure Water Jet for Coal Breaking and Punching Nozzle Considering Structural Parameter Interaction. <i>Machines</i> 2022, 10 (1), 60. DOI: 10.3390/machines10010060. WOS: 000747303700001.                                                               | WOS | 1 | 3    |
| 10 | Gerocs, A.; Korka, Z. I.; Biro, I.; <b>Cojocaru, V.</b> Analytical investigation of an inertial propulsion system using rotating masses. <i>Journal of Physics Conference Series</i> 2020, 1426, 012031. DOI: 10.1088/1742-6596/1426/1/012031. WOS: 000649150700031. | Provatidis, C. G. Inertial Propulsion Devices: A Review. <i>Eng</i> 2024, 5 (2), 851–880. DOI: 10.3390/eng5020046. WOS: 001256240900001.                                                                                                                                                                                                               | WOS | 1 | 3.5  |

|    |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                      |     |   |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|
| 11 | Miclosina, C. O.; <b>Cojocaru, V.</b> ; Korka, Z. I. Analysis of a 6-DOF parallel robot motion simulation. Journal of Physics Conference Series 2020, 1426, 012003. DOI: 10.1088/1742-6596/1426/1/012003. WOS: 000649150700003.   | Wen, S. K.; Ji, A. H.; Che, L. X.; Wu, H. P.; Wu, S. T.; Sun, Y.; Xu, Y. Z.; Zhen, H. Dimensional Optimization of Parallel Mechanisms Based on Differential Evolution. Journal of Mechanical Design 2025, 147 (12), Article No. 124501. DOI: 10.1115/1.4068550. WoS: 001703841100008.                                                | WOS | 1 | 3.3 |
|    |                                                                                                                                                                                                                                   | Pu, H. Y.; Cheng, H.; Wang, G.; Ma, J.; Zhao, J. L.; Bai, R. Q.; Luo, J.; Yi, J. Dexterous workspace optimization for a six degree-of-freedom parallel manipulator based on surrogate-assisted constrained differential evolution. Applied Soft Computing 2023, 139, 110228. DOI: 10.1016/j.asoc.2023.110228. WOS: 001030380200001.  | WOS | 1 | 7.8 |
| 12 | Nedelcu, D.; <b>Cojocaru, V.*</b> ; Micu, L. M.; Florea, D.; Hluscu, M. Using of Polymers for Rapid Prototyping of an Axial Microturbine Runner and Wicked Gates. Materiale Plastice 2019, 56 (2), 454–459. WOS: 000476641000033. | Majca-Nowak, N.; Pyrzanowski, P. The Analysis of Mechanical Properties and Geometric Accuracy in Specimens Printed in Material Jetting Technology. Materials 2023, 16 (8), 3014. DOI: 10.3390/ma16083014. WOS: 000977102600001.                                                                                                      | WOS | 1 | 3.7 |
|    |                                                                                                                                                                                                                                   | Palinkas, I.; Pekez, J.; Desnica, E.; Rajic, A.; Nedelcu, D. Analysis and Optimization of UAV Frame Design for Manufacturing from Thermoplastic Materials on FDM 3D Printer. Materiale Plastice 2021, 58 (4), 238–249. DOI: 10.37358/MP.21.4.5549. WOS: 000756908700002.                                                             | WOS | 1 | 0.8 |
|    |                                                                                                                                                                                                                                   | Vasilescu, M. D. Influence of Constructive and Technological Parameters at Generated Spiral Parts with DLP 3D Printing Process. Materiale Plastice 2019, 56 (4), 801–811. WOS: 000509920700018.                                                                                                                                      | WOS | 1 | 0.8 |
|    |                                                                                                                                                                                                                                   | Sovaiala, G.; Chirita, A.-P.; Anghel, S.; Manea, D. Rapid Prototyping of the Injection Device Piston Used for Fertigation Using 3D Printing Technology. Materiale Plastice 2019, 56 (4), 825–830. WOS: 000509920700021.                                                                                                              | WOS | 1 | 0.8 |
|    |                                                                                                                                                                                                                                   | Savu, I. D.; Savu, S. V.; Simion, D.; Sirbu, N.-A.; Ciornei, M.; Ratiu, S. A. PP in 3D Printing - Technical and Economic Aspects. Materiale Plastice 2019, 56 (4), 931–936. WOS: 000509920700035.                                                                                                                                    | WOS | 1 | 0.8 |
|    |                                                                                                                                                                                                                                   | Chirita, A.-P.; Bere, P.-P.; Radoi, R. I.; Dumitrescu, L. Aspects Regarding the Use of 3D Printing Technology and Composite Materials for Testing and Manufacturing Vertical Axis Wind Turbines. Materiale Plastice 2019, 56 (4), 910–917. WOS: 000509920700032.                                                                     | WOS | 1 | 0.8 |
|    |                                                                                                                                                                                                                                   | Popa, A.; Faur, N.; Hluscu, M.; Belin, C. Evaluation of the Mechanical Properties of the Samples Made by FDM 3D Printing. Materiale Plastice 2019, 56 (3), 500–504. WOS: 000487764000001.                                                                                                                                            | WOS | 1 | 0.8 |
| 13 | Korka, Z. I.; <b>Cojocaru, V.</b> ; Miclosina, C.-O. Modal - Based Design Optimization of a Gearbox Housing. Romanian Journal of Acoustics and Vibration 2019, 16 (1), 58–65. WOS: 000502625500008.                               | Rong, X. W.; Shi, D. H.; Wang, S. H. A comprehensive review of transient gear-shifting control for automotive transmissions. Proceedings of the Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering 2026. DOI: 10.1177/09544089261460308. WoS: 001799806700001.                                     | WOS | 1 | 2   |
|    |                                                                                                                                                                                                                                   | Yang, Y.; Chen, B. M.; Li, G. Q.; Wang, J. L.; Fei, Y. B.; Chu, Y. C. A Novel Gearbox Strength Check Method by Finite Element Analysis. Tehnicki Vjesnik-Technical Gazette 2024, 31 (3), 894–899. DOI: 10.17559/TV-20231221001226. WOS: 001223343100001.                                                                             | WOS | 1 | 1.3 |
|    |                                                                                                                                                                                                                                   | Geröcs, A.; Muncut (Wisznovszky), E.; Komjaty, A.; Lile, R.; Bíró, I. Kinematic and Dynamic Study of an Inertial System Transforming Rotational Motion into Unidirectional Linear Motion. Tehnicki Vjesnik-Technical Gazette 2023, 30 (3), 980–987. DOI: 10.17559/TV-20220915105456. WOS: 000975513400036.                           | WOS | 1 | 1.3 |
|    |                                                                                                                                                                                                                                   | Beigmoradi, S.; Vahdati, M. Enhancement of Vibration Characteristics of an Air Filter Box Utilizing Numerical Analysis. Romanian Journal of Acoustics and Vibration 2020, 17 (2), 85–90. WOS: 000605242000002.                                                                                                                       | WOS | 1 | 0.7 |
| 14 | Korka, Z. I.; <b>Cojocaru, V.</b> ; Miclosina, C.-O. Shape Improvement of a Gearbox Housing Using Modal Analysis. Romanian Journal of Acoustics and Vibration 2018, 15 (1), 47–52. WOS: 000444766100008.                          | Zhang, J. Q.; Zhou, J. X.; Wang, S. N.; Wang, H. W.; Lu, F. X. Research on dynamic characteristics and radiation noise of a helicopter main reducer based on finite element and boundary element method. Journal of Mechanical Science and Technology 2023, 37 (9), 4489–4505. DOI: 10.1007/s12206-023-0807-9. WOS: 001061438200004. | WOS | 1 | 2.2 |
| 15 | Korka, Z. I.; <b>Cojocaru, V.</b> ; Gillich, N.; Miclosina, C. O. Comparative Assessment of Noise Reduction in Helical Gearboxes. Journal of Vibration Engineering & Technologies 2017, 5 (3), 263–268. WOS: 000404371400008.     | Korka, Z. I.; Gillich, N. Modal Analysis of Helical Gear Pairs with Various Ratios and Helix Angles. Romanian Journal of Acoustics and Vibration 2017, 14 (2), 91–96. WOS: 000424498300006.                                                                                                                                          | WOS | 1 | 0.7 |

|    |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |   |       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-------|
|    |                                                                                                                                                                                                                                                                                                                                                                      | Korka, Z. I.; Bara, A.; Clavac, B.; Filip, L. Gear Pitting Assessment Using Vibration Signal Analysis. Romanian Journal of Acoustics and Vibration 2017, 14 (1), 44–49. WOS: 000415587800009.                                                                                                                                                                                                                                                                                     | WOS | 1 | 0.7   |
| 16 | Nedelcu, D.; <b>Cojocaru, V.</b> ; Ghican, A.; Peris-Bendu, F.; Avasilaoie, R. Considerations Regarding the Use of Polymers for the Rapid Prototyping of the Hydraulic Turbine Runners Designed for Experimental Research on the Model. Materiale Plastice 2015, 52 (4), 475–479. WOS: 000368971900011.                                                              | Maurya, N. K.; Rastogi, V.; Singh, P. Effect of process parameters on surface roughness, dimensional accuracy and flatness of VeroBlue RGD840 rigid opaque materials. International Journal of Materials Research 2022, 113 (11), 935–950. DOI: 10.1515/ijmr-2020-8059. WOS: 000865520600001.                                                                                                                                                                                     | WOS | 1 | 1.2   |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Majca-Nowak, N.; Pyrzowski, P. The Analysis of Mechanical Properties and Geometric Accuracy in Specimens Printed in Material Jetting Technology. Materials 2023, 16 (8), 3014. DOI: 10.3390/ma16083014. WOS: 000977102600001.                                                                                                                                                                                                                                                     | WOS | 1 | 3.7   |
| 17 | Nedelcu, D.; <b>Cojocaru, V.</b> ; Nedeloni, M.; Peris-Bendu, F.; Ghican, A. Failure analysis of a Ti-6Al-4V ultrasonic horn used in cavitation erosion tests. Mechanika 2015, 4, 272–276. DOI: 10.5755/j01.mech.21.3.10023. WOS: 000361845600003.                                                                                                                   | Yang, R.; Tian, Y.; Liu, Y.; Li, H. Effect of Cr Doping on Mechanical and Tribological Properties of MoN Coatings. China Surface Engineering 2024, 37 (6), 164–204. DOI: 10.11933/j.issn.1007-9289.20231229001. WOS: 001412867600008.                                                                                                                                                                                                                                             | WOS | 1 | 1.1   |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Posavcic, H.; Vouk, D.; Halkijevic, I. THE EFFECTS OF ULTRASOUND AND ELECTROCOAGULATION ON REMOVAL OF MANGANESE FROM WASTEWATER. Engineering Review 2022, 42 (2), 50–58. DOI: 10.30765/er.1734. WOS: 000944861300005.                                                                                                                                                                                                                                                             | WOS | 1 | 0.9   |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Ahmad, S.; Zhang, J. F.; Feng, P. F.; Yu, D. W.; Wu, Z. J.; Ke, M. Processing technologies for Nomex honeycomb composites (NHCs): A critical review. Composite Structures 2020, 250, 112545. DOI: 10.1016/j.compstruct.2020.112545. WOS: 000562368300002.                                                                                                                                                                                                                         | WOS | 1 | 7.8   |
| 18 | <b>Cojocaru, V.</b> ; Frunzaverde, D.; Campian, C. V.; Marginean, G.; Ciubotariu, R.; Pittner, A.-M. Cavitation erosion investigations on thermal spray coatings. In Mathematics and Computers in Science and Engineering; Latest Trends on Engineering Mechanics, Structures, Engineering Geology 2010; pp 177–+. WOS: 000288686900033.                             | Ciubotariu, C.-R.; Frunzaverde, D. Cavitation Resistance of Elastomeric Coatings Deposited by Different Methods. Materiale Plastice 2019, 56 (4), 875–881. WOS: 000509920700028.                                                                                                                                                                                                                                                                                                  | WOS | 1 | 0.8   |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Frunzaverde, D.; Ciubotariu, C. R.; Secosan, E. R.; Campian, C. V.; Fania, C. Study on the Use of Elastomeric Coatings for Protection of Hydraulic Turbine Components Against Cavitation Erosion. Materiale Plastice 2016, 53 (3), 557–560. WOS: 000384870300048.                                                                                                                                                                                                                 | WOS | 1 | 0.8   |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Ciubotariu, C.-R.; Secosan, E.; Marginean, G.; Frunzaverde, D.; Campian, V. C. Experimental Study Regarding the Cavitation and Corrosion Resistance of Stellite 6 and Self-Fluxing Remelted Coatings. Strojnicki Vestnik-Journal of Mechanical Engineering 2016, 62 (3), 154–162. DOI: 10.5545/sv-jme.2015.2663. WOS: 000372211200002.                                                                                                                                            | WOS | 1 | 1.6   |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Ciubotariu, R. C.; Secosan, E. R.; Serban, V. A.; Frunzaverde, D. Microstructural Characterization of Self-Fluxing Alloy Coatings Before and After Flame Remelting. Metalurgia International 2013, 18 (Special Issue 2), 19–23. WOS: 000315312100004.                                                                                                                                                                                                                             | WOS | 1 | 0.134 |
| 19 | Pittner, A.-M.; Campian, C. V.; Nedelcu, D.; Frunzaverde, D.; <b>Cojocaru, V.</b> Stress concentration factors for pin lever of runner blade mechanism from Kaplan turbines. In Mathematics and Computers in Science and Engineering; Latest Trends on Engineering Mechanics, Structures, Engineering Geology 2010; pp 181–+. WOS: 000288686900034.                  | Nedeloni, L.; Pedrali, P. C.; Cindea, L.; Petrica, A. V.; Budai, A. M.; Conciatu, I. L.; Bara, A. Dry sliding wear research on C45 carbon steel, 41Cr4 alloyed steel and X3CrNi13-4 martensitic stainless steel. IOP Conference Series-Materials Science and Engineering 2019, 477, 012053. DOI: 10.1088/1757-899X/477/1/012053. WOS: 000461184100053.                                                                                                                            | WOS | 1 |       |
|    |                                                                                                                                                                                                                                                                                                                                                                      | Miclosina, C. O.; Balint, D. I.; Campian, C. V.; Frunzaverde, D.; Ion, I. A method to combine hydrodynamics and constructive design in the optimization of the runner blades of Kaplan turbines. In 26th IAHR Symposium on Hydraulic Machinery and Systems, Pts 1-7; Wu, Y., Wang, Z., Liu, S., Yuan, S., Luo, X., Wang, F., Eds.; IOP Conference Series-Earth and Environmental Science; 2013, 15, Article No. 032015. DOI: 10.1088/1755-1315/15/3/032015. WoS: 000324782300045. | WOS | 1 |       |
| 20 | <b>Cojocaru, V.</b> ; Campian, C. V.; Frunzaverde, D.; Ion, I.; Cuzmos, A.; Dumbrava, C. Laboratory tests concerning the influence of surface hardening on the cavitation erosion resistance. In Mathematics and Computers in Science and Engineering; Latest Trends on Engineering Mechanics, Structures, Engineering Geology 2010; pp 210–+. WOS: 000288686900040. | Nedeloni, L.; Pedrali, P. C.; Cindea, L.; Petrica, A. V.; Budai, A. M.; Conciatu, I. L.; Bara, A. Dry sliding wear research on C45 carbon steel, 41Cr4 alloyed steel and X3CrNi13-4 martensitic stainless steel. IOP Conference Series-Materials Science and Engineering 2019, 477, 012053. DOI: 10.1088/1757-899X/477/1/012053. WOS: 000461184100053.                                                                                                                            | WOS | 1 |       |



|                                                                                            |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |     |            |                 |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|-----------------|
|                                                                                            |                                                                                                                                                                                   | Hatiegan, C.; Gillich, E.-V.; Vasile, O.; Nedeloni, M.-D.; Jurcu, M.; Magheti, P. Finite Element Analysis of thin plates clamped on the rim of different geometric forms. Part II: The Absolute and Relative Variation of Natural Frequencies. Romanian Journal of Acoustics and Vibration 2015, 12 (1), 81–86. WOS: 000415189400015. | WOS | 1          | 0.7             |
| 21                                                                                         | <b>Cojocaru, V.</b> Aspects Concerning the Development of Hybrid Propulsion Systems for Mobile Robots. Annals of DAAAM and Proceedings 2009, 20, 1899–1900. WOS: 000282335600950. | Shala, A.; Likaj, R.; Bruqi, M.; Bajrami, X. Propulsion Effect Analysis of 3Dof Robot under Gravity. Procedia Engineering 2015, 100, 206–212. DOI: 10.1016/j.proeng.2015.01.359. WOS: 000380551900001.                                                                                                                                | WOS | 1          |                 |
| Numărul de citări <b>C1</b>                                                                |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |     | <b>347</b> |                 |
| Suma factorilor de impact al publicațiilor WOS în care apar citările <b>S<sub>FI</sub></b> |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |     |            | <b>1449.834</b> |
| <b>Total</b> punctaj indicator <b>C = C1 + S<sub>FI</sub></b>                              |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |     |            | <b>1796.834</b> |

Observație: Toți factorii de impact sunt luați la data raportării (iulie 2026), din JCR 2026

17.07.2026

Ș.I.dr.ing. Vasile Cojocaru

Director Școala Doctorală de Inginerie,  
Conf. univ. dr. ing. Zoltan-Iosif KORKA

Director CSUD,  
Prof.dr. Anca-Mirela ANDREICA