

Universitatea “Babes-Bolyai” din Cluj Napoca

Facultatea de Chimie și Inginerie Chimică

Departamentul de Inginerie Chimică

Lect. dr. ing. Lucian Cristian Pop

LISTA DE LUCRĂRI

a) Articole publicate în reviste din fluxul științific internațional principal ISI:

| Nr. crt. | Autori/Titlu articol/Revista | PA | AC | IF |
|----------|--|----|----|------|
| 1 | A.-A.Someșan, L. C. Pop, Beyond inertness: silicone grease as an unintentional reagent, Coordination Chemistry Reviews, 562, (2), 2026, 218013 (IF 2025 - 23.5) | DA | DA | 23.5 |
| 2 | L.-C. Pop, M. Saito, Serendipitous Reactions Involving a Silicone Grease; Coordination Chemistry Reviews, (2016), 314, 64–70 (IF 2014 - 12.239) | DA | | 23.5 |
| 3 | O. Monfort, L.-C. Pop, S. Sfaelou, T. Plecenik, T. Roch, V. Dracopoulos, E. Stathatos, G. Plesch, P. Lianos, Photoelectrocatalytic hydrogen production by water splitting using BiVO ₄ photoanode, Chemical Engineering Journal, (2016), 286, 91–97 (IF 2014 – 4.321) | | | 13.2 |
| 4 | L.-C. Pop, I. Tantis, P. Lianos, Photoelectrocatalytic hydrogen production using nitrogen containing water soluble wastes; International Journal of Hydrogen Energy, (2015), 40, 8304–8310 (IF 2014 - 3.313) | DA | | 8.3 |
| 5 | S. Sfaelou, L.-C. Pop, O. Monfort, V. Dracopoulos, P. Lianos, Mesoporous WO ₃ photoanodes for hydrogen production by water splitting and PhotoFuelCell operation, International Journal of Hydrogen Energy, (2016), 41, 5902–5907 (IF 2014 - 3.313) | | | 8.3 |
| 6 | L.-C. Pop, V. Dracopoulos, P. Lianos, Photoelectrocatalytic hydrogen production using nanoparticulatetitanium and a novel Pt/Carbon electrocatalyst: The concept of the “Photoelectrocatalytic Leaf”; Applied Surface Science, (2015), 333, 147–151 (IF 2014 - 2.711) | DA | | 6.9 |
| 7 | M. Popa, L.C. Pop, G. Schmerber, C. Bouillet, O. Ersen, Applied Surface Science, Impact of the structural properties of holmium doped ZnO thin films grown by sol–gel method on their optical properties, 562, (2021), 150159 (IF 2019 - 6.218) | | DA | 6.9 |
| 8 | E.-Z.Kedves, C.Fodor, Á. Fazekas, I. Székely, Á. Szamosvölgyi, A. Sápi, Z. Kónya, L. C. Pop, L. Baia, Zs. Pap, Applied Surface Science, α -MoO ₃ with inhibitive properties in Fenton reactions and insights on its general impact on OH radical based advanced oxidation processes, 624, (2023), 156914 (IF 2021 - 7.392) | | | 6.9 |
| 9 | B. Boga, V.-M. Cristea, I. Székely, F.Lorenz, T. Gyulavári, L. C. Pop, L. Baia, Z. Pap, N. Steinfeldt, J. Strunk, Sustainable Chemistry and Pharmacy, Experimental data-driven and phenomenological modeling approaches targeting the enhancement of CaTiO ₃ photocatalytic efficiency, 33, (2023), 101045, (IF 2021 - 5.464) | | | 5.8 |

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|-----|--|----|----|-----|
| 10 | L.-C. Pop, S. Sfaelou, P. Lianos, Cation adsorption by mesoporoustitaniaphotoanodes and its effect on the current-voltage characteristics of photoelectrochemical cells; <i>Electrochimica Acta</i> , (2015), 156, 223–227 (IF 2014 - 4.504) | DA | | 5.6 |
| 11 | S. L. Choon, H. N. Lim, W. N. W. M. Abd Kalam, I. Ibrahim, C. H. Ng, C. Y. Haw, A. C. Mot, L. C. Pop, Rapid synthesis of stable Cs ₂ SnI ₆ double perovskite for visible-light DSSC–supercapacitor applications, <i>Electrochimica Acta</i> 548 (2026) 147975 (IF 2024 - 5.6) | | | 5.6 |
| 12 | L.-C. Pop, L. Sygellou, V. Dracopoulos, K. S. Andrikopoulos, S. Sfaelou, P. Lianos, One-step electrodeposition of CdSe on nanoparticulatetitania films and their use as sensitized photoanodes for photoelectrochemical hydrogen production; <i>Catalysis Today</i> , (2015), 252, 157-161 (IF 2014 - 3.893) | DA | | 5.3 |
| 13 | E. Karácsonyi, L. Baia, A. Dombi, V. Danciu, K. Mogyorósi, L.-C. Pop, G. Kovács, V. Coşoveanu, A. Vulpoi, S. Simon, Zs. Pap, The photocatalytic activity of TiO ₂ /WO ₃ /noble metal (Au or Pt) nanoarchitectures obtained by selective photodeposition; <i>Catalysis Today</i> , (2013), 208, 19-27 (IF 2014 - 3.893) | | | 5.3 |
| 14 | I. Rigo, A. Bunge, L.-C. Pop, N.Terenti, A. Nan, Sustainable eco-friendly scale-up synthesis of polytartaric acid using renewable feedstocks, <i>RSC Sustainability</i> , 2025, 3, 5241-5248. (IF 2024 - 4.9) | | | 4.9 |
| 15* | C. Balan, L.-C. Pop, M. Baia, IR, Raman and SERS analysis of amikacin combined with DFT-based calculations, <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 214, (2019), 79-85 (IF 2018 - 2.931) Domeniul SPECTROSCOPY | DA | | 4.6 |
| 16 | L. Z. Racz, C. P.I Racz, L. C. Pop, G. Tomoaia, A.Mocanu, I. Barbu, M. Sárközi, I.Roman, A. Avram, M. Tomoaia-Cotisel, V.-A. Toma, <i>Molecules</i> , Strategies for Improving Bioavailability, Bioactivity, and Physical-Chemical Behavior of Curcumin, (2022), 27(20), 6854, (IF 2021 - 4.927) | | | 4.6 |
| 17 | M. Stroe, M. Cristea, E. Matei, A. Galatanu, L.C. Cotet, L.C. Pop, M. Baia, V. Danciu, I. Anghel, L. Baia, A.M. Baibarac, Optical properties of composites based on graphene oxide and polystyrene, <i>Molecules</i> , (2020), 25(10), 2419 (IF 2018 - 3.098) | | | 4.6 |
| 18 | C.-A.Moldoveanu, M.Tomoaia-Cotisel, A. Sevastre-Berghian, G. Tomoaia, A. Mocanu, C. Pal-Racz, V.-A. Toma, I. Roman, M.A. Ujica, L.-C. Pop, A Review on Current Aspects of Curcumin-Based Effects in Relation to Neurodegenerative, Neuroinflammatory and Cerebrovascular Diseases, <i>Molecules</i> 2025, 30, 43. (IF 2024 - 4.6) | | DA | 4.6 |
| 19 | K. Saszet, S. Guliman, L. Szalma, I. Szekely, R. Tetean, M. Todea, A. Szamosvolgyi, M. Muresan-Pop, L. Barbu-Tudoran, K. Magyari, L.-C. Pop, Z. Pap, L. Baia, Recyclable TiO ₂ –Fe ₃ O ₄ Magnetic Composites for the Photocatalytic Degradation of Paracetamol: Comparative Effect of Pure Anatase and Mixed-Phase P25 TiO ₂ , <i>Catalysts</i> , 2025, 15, 839. (IF 2024 - 4.0) | | | 4 |
| 20 | A.-D. Florea, L. C. Pop, H.-R.-C. Benea, G. Tomoaia, Cs.-P. Racz, A. Mocanu, C.-T. Dobrota, R. Balint, O. Soritau, M. Tomoaia-Cotisel, <i>Biomimetics</i> , Remineralization induced by biomimetic hydroxyapatite toothpastes on human enamel, (2023), 8 (IF 2022 - 4.5) | DA | | 3.9 |

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|----|---|----|----|-----|
| 21 | A. G., Mihiş, L. C. Cotet, C. Cadar, L. C. Pop, M. Todea, M. M. Rusu, I. Székely, C. A. Sălăgean, K. Magyar, M. Muresan-Pop, Cadar, O., M. Baia, I. E. Sofran, G. Lisa, I. Anghel, M. Baibarac, V. Danciu, L. Baia, J Mater Sci, Structural and flame retardancy properties of GO-DOPO-HAK composite, 58, (2023) 7025–7047 (IF 2021 - 4.682) | | | 3.9 |
| 22 | A. Mocanu, M. A. Ujica, O. Horovitz, G. Tomoaia, O. Soritau, C. T. Dobrota, C. R. Popa, A. Kun, H.-R.-C. Benea, I. M. Mang, G. Borodi, V. Raischi, M. Roman, L. C. Pop, M. Tomoaia-Cotisel, Enhanced Stability of Multi-Functionalized Gold Nanoparticles and Potential Anticancer Efficacy on Human Cervical Cancer Cells, Biomedicines, 2025, 13, 1861. (IF 2023 - 3.9) | | DA | 3.9 |
| 23 | A.-D. Florea, C.T. Dobrota, R.Carpa, Cs.-P. Racz, Gh. Tomoaia, A. Mocanu, A. Avram, O. Soritau, L. C. Pop, M. Tomoaia-Cotisel, Optimization of Functional Toothpaste Formulation Containing Nano-Hydroxyapatite and Birch Extract for Daily Oral Care, Materials, (2023), 16, 7143. (IF 2021 - 3.748) | | | 3.2 |
| 24 | M. Tomoaia-Cotisel, A.-Z. Kun, C.-Pál Rácz, G. Tomoaia, A. Mocanu, E. Forizs, A. Avram, L.-Z. Rácz, L.-C. Pop, M. Sarkosi, .C. Várhelyi, Enhanced stability of curcumin and polyethylene glycol composites in the presence of flavonoids and whey protein concentrate: synthesis, structural evaluation and thermal analysis, Journal of Thermal Analysis and Calorimetry (2025) 150, 4093–4105. (IF 2024 - 3.39) | | DA | 3.1 |
| 25 | M. M. Rusu, A. Vulpoi, I. Maurin, L. C. Cotet, L. C. Pop, C. I. Fort, M. Baia, L. Baia, I. Florea, Microscopy and Microanalysis, Thermal Evolution of C–Fe–Bi Nanocomposite System: From Nanoparticle Formation to Heterogeneous Graphitization Stage, (2022), 1–13 (IF 2019 - 3.414) | | | 3 |
| 26 | A. I. Cadiş, L. E. Mureşan, I. Perhaiţa, L. C. Pop, K. Saszet, L. Barbu-Tudoran, G. Borodi, Journal of Nanoparticle Research, Peculiarities on methyl orange adsorption by porous ZnIn ₂ S ₄ prepared in different conditions, (2022), 24:74, (IF 2020 - 2.253) | | | 2.6 |
| 27 | X. Zarate, L.-C. Pop, M. Treto-Suárez, J. Tapiace, E. Schott, Structure and Electronic Properties of Benzimidazole and Cycloheptimidazole Gold N-heterocyclic Carbenes, Polyhedron, (2021), 115259 (IF 2019 - 2.343) | | | 2.6 |
| 28 | A. POP, C. SILVESTRU, L. C. POP, L. KISS, Synthesis, spectroscopic and structural study of a copper(II) complex with the (3-py) ₂ Hg linker. A zig-zagchain paddle-wheels coordination polymer, Crystals, 2026, 67 (IF 2024 - 2.4) | DA | DA | 2.4 |
| 29 | L. C. Pop, Sz.Szima, Sz.Fogarasi, Recovery of critical metals from waste printed circuit boards for sustainable energy transition, Crystals, 16, 2026, 67 (IF 2024 - 2.4) | DA | DA | 2.4 |
| 30 | L.-C. Pop, N. Kurokawa, H. Ebata, K.Tomizawa,T. Tajima, M. Saito, Synthesis and Structures of Sterically Encumbered Group 14 Monolithio Compounds and Unexpected Differences in Their Reactivity, European Journal of Inorganic Chemistry, (2017), 43, 4969–4975 (IF 2016 - 2.444) | DA | | 2 |

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|-----|---|----|----|-----|
| 31* | Zs. Pap, E. Karácsnyai, L. Baia, L.-C. Pop, V. Danciu, K. Hernádi, K. Mogyorósi, A. Dombi, TiO ₂ /WO ₃ /Au/MWCNT composite materials for photocatalytic hydrogen production: Advantages and draw-backs; <i>Physica Status Solidi B</i> , (2012), 12, 2592-2595 (IF 2014 - 1.470) Domeniul PHYSICS, CONDENSED MATTER | | | 1.8 |
| 32 | L.-C. Pop, N. Kurokawa, H. Ebata, K. Tomizawa, T. Tajima, M. Ikeda, M. Yoshioka, M. Biesemans, R. Willem, M. Minoura, M. Saito, Synthesis and Structures of Monomeric Group 14 Triols and their Reactivity; <i>Canadian Journal of Chemistry</i> , (2014), 92(6), 542-548 (IF 2014 - 1.061, 5-Year IF: 1.130) | DA | | 1 |
| 33 | L.-C. Pop, M. Preite, J. Manuel Manriquez, A. Vega, I. Chavez, 1,1':4',1''-Terphenyl-2',5'-dicarboxylic acid dimethyl sulfoxide-d ₆ disolvate; <i>Acta Crystallographica Section E</i> , (2012), E68, o1192 (IF 2011 - 0.347) | DA | | 0.6 |
| 34 | A. Mocanu, D. A. Florea, G. Tomoaia, L.-C. Pop, A. Danistean, S. Rapuntean, O. Horovitz, M Tomoaia-Cotisela, <i>Studia Ubb Chemia</i> , Nanocomposite based on hydroxyapatite and silver with antibacterial activity LXVIII, 3, (2023), 7-18 (IF 2021 - 0.558) | | DA | 0.5 |
| 35 | D. A. Florea, A. Mocanu, L. C. Pop, Gh. Tomoaia, C.-T. Dobrota, Cs. Varhelyi Jr., M. Tomoaia-Cotisel, <i>Studia Ubb Chemia</i> , Remineralization of tooth enamel with hydroxyapatite nanoparticles: an in vitro study, LXVIII, 2, (2023) 99-113 (IF 2021 - 0.558) | | DA | 0.5 |
| 36 | L. C. Pop, G. Barta, L. C. Cotet, K. Magyari, M. Baia, L. B. Tudoran, R. Ungur, D. Vodnar, L. Baia, V. Danciu, <i>Studia Ubb Chemia</i> , Antimicrobial activity of graphene oxide-coated Polypropylene surfaces, LXVII, 1, (2022), 281-296 (IF 2021 - 0.558) | DA | | 0.5 |
| 37 | L. Z. Racz, G.-A. Paltinean, I. Petean, G. Tomoaia, L. C. Pop, G. Arghir, E. Levei, A. Mocanu, C.-P. Racz, M. Tomoaia-Cotisel, <i>Studia Ubb Chemia</i> , Curcumin and whey protein binding and structural characteristics of their complex evidenced by atomic force microscopy, (2022), LXVII, 3, (2022), 61-74 (IF 2021 - 0.558) | | | 0.5 |

PA - Prim Autor, AU – Autor Corespondență, IF – Factor de Impact indicat de WoS în mai 2026, *articole 15 (IF 4.6) și 31 (IF 1.8) nu sunt în domeniul chimie

| TABEL CENTRALIZATOR | | | | | | |
|--|------------------|-------|------------------|-------------------|-------------------|---------------------|
| Categorie: Profesor/CSI/Habilitare | N _{max} | FIC | FIC _D | FID _{AP} | FIC _{AC} | H _{index} |
| Criterii minimale CNADTCU | 50 | 100 | 70 | 50 | 25 | 13 |
| Criterii CNADTCU realizate Lucian C. Pop | | 190,8 | 184,4 | 131,3 | 47.8 | 15 (GS) 14 (WoS) |
| Grad de indeplinire (%) | - | 188 | 263,4 | 262,6 | 191,2 | |

(*) N_{max} - primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

(**) FIC - factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză;

(***) FIC_D - factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate;

(****) FIC_{AP} - factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

(****) FIC_{AC} - factorul de impact cumulat minimal din publicații în calitate de autor de corespondență.

a1) Articole publicate în reviste din fluxul științific internațional principal ISI în timpul tezei de doctorat:

- L.-C. Pop**, N. Katir, A. Castel, L. Silaghi-Dumitrescu, F. Delpech, I. Silaghi-Dumitrescu, H. Gornitzka, D. MacLeod-Carey, N. Saffon, [N,N' and N,O chelated phosphoniumcations containing aminotroponimate or aminotroponate units](#); Journal of Organometallic Chemistry (2009), 694(9-10), 1562-1566 (IF 2014 - 2.173, 5-Year IF: 2.056)
- L.-C. Pop**, D. MacLeod-Carey, A. Munoz-Castro, L. Silaghi-Dumitrescu, A. Castel, R. Arratia-Perez, [Relativistic Calculations of Aminotroponimate complexes containing group 15 \(P, As, Sb, Bi\) elements](#); Polyhedron (2011), 30, 841-845 (IF 2014 - 2.011, 5-Year IF: 1.952)
- L.-C. Pop**, A. Castel, L. Silaghi-Dumitrescu, N. Saffon, [Aminotroponimate and aminotroponate complexes of group 15 \(P, As\) elements: syntheses, X-ray diffraction analyses and reactivity](#); European Journal of Inorganic Chemistry, (2011), 22, 3357-3364

b) Teza de doctorat:

[“N,N'- and N,O-chelated pnictogenium cations \(P, As, Sb\) and germynes: syntheses, structural studies and reactivity”](#)

Teză în cotutelă între Paul Sabatier University, Toulouse, France și “Babes-Bolyai” University of Cluj-Napoca, Romania, The Faculty of Chemistry and Chemical Engineering

Coordonatori: Prof. Dr. Luminița Silaghi Dumitrescu și Dr. Annie Castel

c) Brevete de invenție

L.C. Cotet, L.G. Baia, C.I. Fort, **L.C. Pop**, M. Rusu, Material composite obtaining process of nanoporous carbon/graphene/bismuth and iron nanoparticles/titanium dioxide with analytical and photodegradation properties, Romanian National Patent requirement: OSIM No. a 2017 00826, Proprietar: Babes-Bolyai University (Romania).

d) Carte/Capitole de carte:

Carte: 1. L. Pop, A. Mocanu, Z. Andrei, M. Tomoaia-Cotisel, Modele experimentale in termodinamica chimica, Editura: Editura Presa Universitara Clujana, 2021, ISBN 978-606-37-1125-1

Capitole de carte: 1. P. Lianos, S. Sfaelou, **L.-C. Pop**, book title [Photocatalysis: Fundamentals and Perspectives](#) (Series RSC Energy and Environment Series), chapter title Photocatalysis and Photoelectrocatalysis for Energy Generation Using PhotoFuelCells published by The Royal Society of Chemistry (2016)

2. L.C. Cotet, C.I. Fort, **L.-C. Pop**, M. Baia, L. Baia, book title [Dye-Sensitized Solar Cells - Mathematical Modeling, and Materials Design and Optimization](#), chapter title Insights Into Graphene-Based Materials as Counterelectrodes for Dye-Sensitized Solar Cells, published by Academic Press, Elsevier (2019)

3. C.I. Fort, **L.-C. Pop**, book title [Advanced Nanostructures for Environmental Health](#), chapter title Heavy metals and metalloids electrochemical detection by composite nanostructures, published by Elsevier (2019)

4. L.C. Cotet, C.I. Fort, **L.-C. Pop**, M. Baia, L. Baia, book title "Graphene - Chemistry and Applications", chapter title [Advanced graphene based materials for electrochemical biomarker and protein detection](#), published by IntechOpen, UK (2023)

Alte lucrări științifice - journals from international data base:

1. **L.C. Pop**, M. Baibarac, I. Anghel, L. Baia, Gypsum composite boards incorporating phase change materials: A review, Journal of Nanoscience and Nanotechnology, 21, (2021), 2269–2277

2. L.C. Coteț, C. Cadar, A. Mihiș, K. Magyari, M. Muresan-Pop, **L.C. Pop**, et al., Mixture of graphene oxide/phosphoric acid/melamine as coating for improved fire protective

performance and enhancement of surface electrical properties on wood chipboard, Journal of Nanoscience and Nanotechnology, 21, (2021), 2312–2322

3. C.I. Fort, M.M. Rusu, **L.-C. Pop**, L.C. Cotet, A. Vulpoi, M. Baia, L. Baia, Preparation and characterization of carbon xerogel based composites for electrochemical sensing and photocatalytic degradation, Journal of Nanoscience and Nanotechnology, 21, (2021), 2323–2333

g) Alte lucrări și contribuții științifice;

1. Prezentare orală la 93rd “Spring Annual Meeting” organized by Chemical Society of Japan, titlul prezentării “Synthesis and Structure of Lithiostannane Bearing a Bulky Ligand and its Unusual Reactivity”, Kyoto, Japan, 22-25 martie 2013

2. Prezentare orală la Conferința Științifică Națională de Toamna, AOSR, Cluj-Napoca, Romania “Detection of Curcumin Binding to Whey Protein Nanoparticles Using Atomic Force Microscopy”, 3-5 noiembrie 2022

Alte 55 participări la conferințe naționale și internaționale (prezentări orale sau poster)

Data

26.05.2026

Dr. Eng. Lucian Cristian Pop