Director CSUD,
Prof. dr. Anca-Mirela ANDREICA

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Întocmirea fișei de verificare

a îndeplinirii standardelor Universităţii de prezentare la concurs pentru

abilitare

(în conformitate cu Anexa nr. 4 -COMISIA CHIMIE din Anexa la Ordinul ministrului Educației Naționale și Cercetării Științifice nr. 6.129/20.12.2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, publicat in Monitorul Oficial, Partea I, nr. 123 din 15 februarie 2017).

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 publicaţii în domeniile de cercetare declarate;
(****) FIC_{AP} - factorul de impact cumulat minimal din publicaţii în calitate de autor principal (prim-autor şi autor de corespondenţă);
(****) FIC_{AC} - factorul de impact cumulat minimal din publicaţii în calitate de autor de corespondenţă.

Toate criteriile CNATDCU pentru domeniul Chimie sunt îndeplinite de către Dr. ing. Lucian Cristian Pop, aşa cum rezultădin tabelul centralizator.

LISTA DE LUCRĂRI

a) **Articole/studii in extenso, publicate in reviste din fluxul stiintific international 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 BiVO4 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 WO3 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 nanoparticulatetitania 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-MoO3 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 CaTiO3 photocatalytic efficiency, 33, (2023), 101045, (IF 2021 - 5.464)			5.8
10	L.-C. Pop, S. Sfaelou, P. Lianos, Cation adsorption by mesoporoustitaniaphotoanodes and its effect on the current-voltage characteristics of photoelectrochemical cells; Electrochimica Acta, (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 Cs2SnI6 double perovskite for visible-light DSSC–supercapacitor applications, Electrochimica Acta 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; Catalysis Today, (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. Coșoveanu, A. Vulpoi, S. Simon, Zs. Pap, The photocatalytic activity of TiO2/WO3/noble metal (Au or Pt) nanoarchitectures obtained by selective photodeposition; Catalysis Today, (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, RSC Sustainability, 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, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 214, (2019), 79-85 (IF 2018 - 2.931) Domeniul SPECTROSCOPY	DA		4.6
16	L. Z. Racz, C. P.l Racz, L. C. Pop, G. Tomoaia, A.Mocanu, I. Barbu, M. Sárközi, I.Roman, A. Avram, M. Tomoaia-Cotisel, V.-A. Toma, Molecules, 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, Molecules, (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, Molecules 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 TiO2–Fe3O4 Magnetic Composites for the Photocatalytic Degradation of Paracetamol: Comparative Effect of Pure Anatase and Mixed-Phase P25 TiO2, Catalysts, 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, Biomimetics, Remineralization induced by biomimetic hydroxyapatite toothpastes on human enamel, (2023), 8 (IF 2022 - 4.5)	DA		3.9
21	A. G., Mihis, L. C. Cotet, C. Cadar, L. C. Pop, M. Todea, M. M. Rusu, I. Székely, C. A. Sălăgean, K. Magyari, 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. Mureșan, I. Perhaița, L. C. Pop, K. Saszet, L. Barbu-Tudoran, G. Borodi, Journal of Nanoparticle Research, Peculiarities on methyl orange adsorption by porous ZnIn2S4 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 Cycloheptaimidazole 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)2Hg 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
31*	Zs. Pap, E. Karácsonyi, L. Baia, L.-C. Pop, V. Danciu, K. Hernádi, K. Mogyorósi, A. Dombi, TiO2/WO3/Au/MWCNT composite materials for photocatalytic hydrogen production: Advantages and draw-backs; Physica Status Solidi B, (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; Canadian Journal of Chemistry, (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-d6disolvate; Acta Crystallographica Section E, (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, Studia Ubb Chemia, 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, Studia Ubb Chemia, 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, Studia Ubb Chemia, 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, Studia Ubb Chemia, 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

b) Publicatii reviste BDI:

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

d) Brevete de invenţie

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).

e) 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)

Data
26.05.2026

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