

Anexa nr. 4 – COMISIA DE CHIMIE

STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE

Criterii generale:

| Categorie | N _{max} (*) | FIC (**) | FIC _D (***) | FIC _{AP} (****) | FIC _{AC} (*****) | h index |
|-------------------------|-------------------------|-------------|---------------------------|-----------------------------|------------------------------|---------|
| Profesor/CSI/Habilitare | 50 | 100 | 70 | 50 | 25 | 13 |
| Conferențiar/CS2 | 30 | 50 | - | 20 | - | 9 |

(*) 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.

Recomandări suplimentare:

- Activitatea didactică, cărți, manuale, cursuri, suporturi de curs se pot introduce drept criterii proprii de către universități / institute.
- Capitolele de cărți se echivalează cu articole cu FI = 2 (doi), în cărțile prezente în mai mult de 150 de biblioteci (vizibile în motorul de căutare UEFISCDI);
- Brevetele internaționale (de tipul EU, WO) se echivalează (fiecare) cu un articol cu FI = 4 (patru).

Note:

- o Este obligatoriu ca pentru poziția de profesor și pentru abilitare candidații să ilustreze prin publicații domeniile proprii de cercetare (autor de corespondență).
- o Aceste standarde sunt setul minim de standarde de concurs. Suplimentar, instituțiile (universități, institute) pot impune și alte cerințe, conform legii. În cazul universităților, asupra acestora se va pronunța un organism abilitat de către Senatul Universității și rezultatele vor fi aprobate de către Senat (Legea 1/2001 art 297, 219). În cazul institutelor asupra acestora va decide Consiliul Științific (Legea 319/2003, art 16(2)c). În ambele cazuri, CNATDCU va valida îndeplinirea setului minimal, conform legii 1/2011, art. 166(2), 219(1), 295(1)(3) și 300(4); respectiv legii 319/2003, art. 16(2)c.



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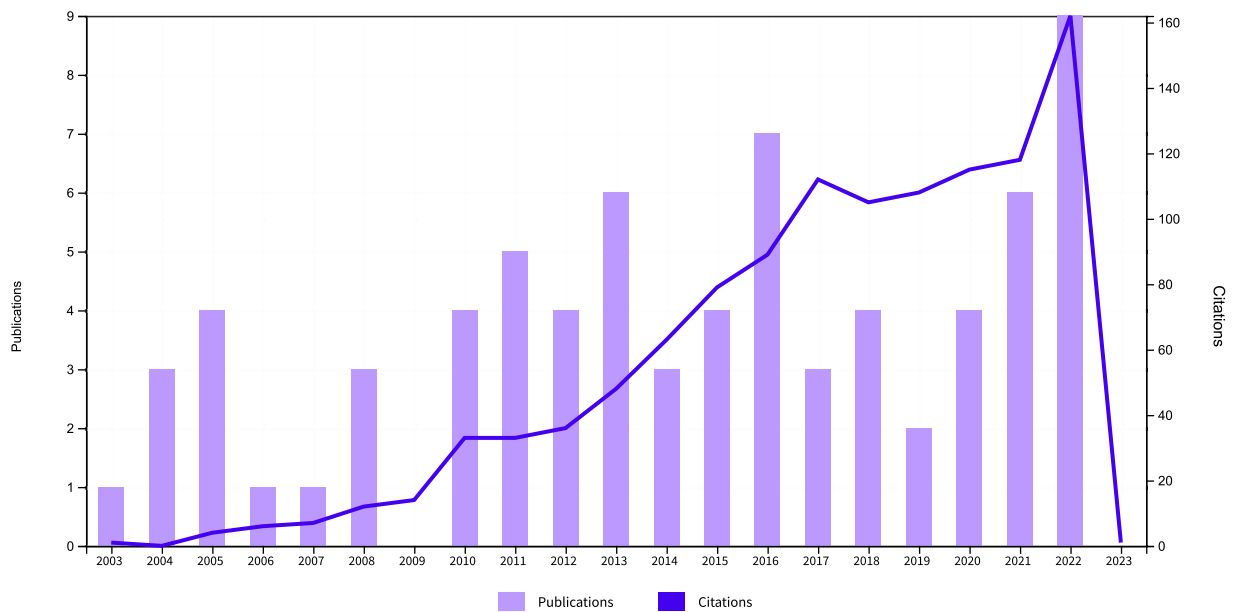
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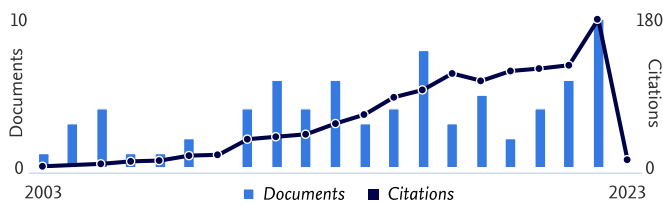
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Mitran, G., Jinga, L.I., Popescu-Pelin, G.F., Pavel, O.D.

Industrial and Engineering Chemistry Research, 2022, 61(49), pp. 17810–17820

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New MgFeAl-LDH Catalysts for Claisen–Schmidt Condensation

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Zăvoianu, R., Tudorache, M., Parvulescu, V.I., Cojocaru, B., Pavel, O.D.

Molecules, 2022, 27(23), 8391

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Tailored texture synthesized LDH catalysts in the presence of quaternary ammonium salts

1

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Cojocaru, B., Jurca, B.C., Zăvoianu, R., ...Părvulescu, V.I., Pavel, O.D.

Catalysis Communications, 2022, 170, 106485

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ÎNDEPLINIRE STANDARDE MINIMALE PENTRU HABILITARE

PAVEL DUMITRU-OCTAVIAN

Universitatea din București; Șef Lucrări dr.

Web of Science (<https://www.webofscience.com/wos/woscc/summary/794f35a4-ba78-442c-aab3-dd44f6314f1f-4dd78d3a/relevance/1>):

h-index **19**; Publicații **74**; Citari total **1146** și fără autocitari **958**

Web of Science ResearcherID B-5845-2011

<https://www.webofscience.com/wos/author/record/B-5845-2011>

Scopus (<https://www.scopus.com/authid/detail.uri?authorId=6601997287>):

h-index: **19**; Publicații **77**; Citări **1225**

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| Nr. Crt. | Titlul articolului | Jurnal (link) ^a | Categorie (JCR) ^b | Factor de impact ^c | | | |
|----------|--|---|------------------------------|-------------------------------|------------------|-------------------|-------------------|
| | | | | FIC | FIC _D | FIC _{AP} | FIC _{AC} |
| 1 | Selective oxidation of 5-hydroxymethyl furfural over non-precious metal heterogeneous catalysts <i>F. Neatu, R.S. Marin, M. Florea, N. Petrea, O.D. Pavel, Vasile I. Pârvulescu</i> | Applied Catalysis B: Environmental 180 (2016) 751 – 757 (link) | Chimie | 9.446 | 9.446 | - | - |
| 2 | Catalytic behavior of Li-Al-LDH prepared <i>via</i> mechanochemical and co-precipitation routes for cyanoethylation reaction <i>O.D. Pavel*</i> , A.-E. Stamate, E. Bacalum, B. Cojocaru, R. Zavoianu, V.I. Parvulescu | Catalysis Today 366 (2021) 227 – 234 (link) | Chimie | 6.562 | 6.562 | 6.562 | 6.562 |
| 3 | Synthesis and characterization of hematite-based nanocomposites as promising catalysts for indigo carmine oxidation <i>A.C. Kuncser, A.M. Rostas, R. Zavoianu, O.D. Pavel*</i> , I.D. Vlaicu, M. Badea, D.C. Culita, A. Tirsoaga, R. Olar | Nanomaterials 12 (2022) 2511 (link) | Chimie | 5.719 | 5.719 | 5.719 | 5.719 |
| 4 | Mechano-chemical versus co-precipitation for the preparation of | Applied Catalysis A: General 605 | Chimie | 5.706 | 5.706 | 5.706 | 5.706 |

| | | | | | | | |
|----|--|---|--------|-------|-------|-------|-------|
| | Y-modified LDHs for cyclohexene oxidation and Claisen-Schmidt condensations <i>O.D. Pavel*</i> , <i>A.-E. Stamate</i> , <i>R. Zăvoianu</i> , <i>I.C. Bucur</i> , <i>R. Bîrjega</i> , <i>E. Angelescu</i> , <i>V.I. Pârvulescu</i> | (2020) 117797 (link) | | | | | |
| 5 | The influence of the preparation method on the physico-chemical properties and catalytic activities of Ce-modified LDH structures used as catalysts in condensation reactions <i>A.-E. Stamate</i> , <i>R. Zăvoianu</i> , <i>O.D. Pavel</i> , <i>R. Bîrjega</i> , <i>A. Matei</i> , <i>M. Dumitru</i> , <i>I. Brezeştean</i> , <i>M. Osiac</i> , <i>I.-C. Marcu</i> | Molecules 26 (2021) 6191 (link) | Chimie | 4.927 | 4.927 | - | - |
| 6 | New MgFeAl-LDH catalysts for Claisen–Schmidt condensation <i>R. Zavoianu</i> , <i>M. Tudorache</i> , <i>V.I. Parvulescu</i> , <i>B. Cojocar</i> , <i>O.D. Pavel*</i> | Molecules 27 (2022) 8391 (link) | Chimie | 4.927 | 4.927 | 4.927 | 4.927 |
| 7 | Mechanochemical versus coprecipitated synthesized lanthanum-doped layered materials for olefin oxidation <i>O.D. Pavel</i> , <i>R. Zăvoianu</i> , <i>R. Bîrjega</i> , <i>E. Angelescu</i> , <i>V.I. Pârvulescu</i> | Applied Catalysis A: General 542 (2017) 10 – 20 (link) | Chimie | 4.521 | 4.521 | 4.521 | - |
| 8 | Green epoxidation of olefins with Zn _x Al/Mg _x Al-LDH compounds: influence of the chemical composition <i>R. Zavoianu</i> , <i>A. Cruceanu</i> , <i>O.D. Pavel*</i> , <i>C. Bradu</i> , <i>M. Florea</i> , <i>R. Bîrjega</i> | Catalysts 12 (2022) 145 (link) | Chimie | 4.501 | 4.501 | 4.501 | 4.501 |
| 9 | An advanced approach for MgZnAl-LDH catalysts synthesis used in Claisen-Schmidt condensation <i>R. Zăvoianu</i> , <i>S.-D. Mihăilă</i> , <i>B. Cojocar</i> , <i>M. Tudorache</i> , <i>V.I. Pârvulescu</i> , <i>O.D. Pavel*</i> , <i>S. Oikonomopoulos</i> , <i>E.E. Jacobsen</i> | Catalysts 12 (2022) 759 (link) | Chimie | 4.501 | 4.501 | 4.501 | 4.501 |
| 10 | Use of photocatalytically active supramolecular organic–inorganic magnetic composites as efficient route to remove β -lactam antibiotics from water <i>S.G. Ion</i> , <i>O.D. Pavel</i> , <i>N. Guzo</i> , <i>M. Tudorache</i> , <i>S.M. Coman</i> , | Catalysts 12 (2022) 1044 (link) | Chimie | 4.501 | 4.501 | - | - |

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|----|--|---|--------|-------|-------|-------|-------|
| | <i>V.I. Parvulescu, B. Cojocaru, E.E. Jacobsen</i> | | | | | | |
| 11 | The activity of yttrium-modified Mg,Al hydrotalcites in the epoxidation of styrene with hydrogen peroxide <i>O.D. Pavel, B. Cojocaru, E. Angelescu, V.I. Pârvulescu</i> | Applied Catalysis A: General 403 (2011) 83 – 90 (link) | Chimie | 3.903 | 3.903 | 3.903 | - |
| 12 | Ce-containing MgAl-layered double hydroxide-graphene oxide hybrid materials as multifunctional catalysts for organic transformations <i>A.-E. Stamate, O.D. Pavel, R. Zavoianu, I. Brezestean, A. Ciorita, R. Birjega, K. Neubauer, A. Koeckritz, I.-C. Marcu</i> | Materials 14 (2021) 7457 (link) | Chimie | 3.748 | 3.748 | - | - |
| 13 | Functional layered double hydroxides and their catalytic activity for 1,4-addition of n-octanol to 2-propenenitrile <i>R. Zăvoianu, O.D. Pavel, A. Cruceanu, M. Florea, R. Birjega</i> | Applied Clay Science 146 (2017) 411 – 422 (link) | Chimie | 3.641 | 3.641 | - | - |
| 14 | A comparative study on the catalytic activity of ZnAl, NiAl, and CoAl mixed oxides derived from LDH obtained by mechanochemical method in the synthesis of 2-methylpyrazine <i>F. Teodorescu, A.I. Slabu, O.D. Pavel, R. Zăvoianu</i> | Catalysis Communications 133 (2020) 105829 (link) | Chimie | 3.626 | 3.626 | - | - |
| 15 | Tailored texture synthesized LDH catalysts in the presence of quaternary ammonium salts <i>B. Cojocaru, B.C. Jurca, R. Zavoianu, R. Birjega, V.I. Parvulescu, O.D. Pavel*</i> | Catalysis Communications 170 (2022) 106485 (link) | Chimie | 3.510 | 3.510 | 3.510 | 3.510 |
| 16 | The impact of the “memory effect” on the catalytic activity of Mg/Al; Mg,Zn/Al; Mg/Al,Ga hydrotalcite-like compounds used as catalysts for cyclohexene epoxidation <i>E. Angelescu, O.D. Pavel, R. Birjega, M. Florea, R. Zavoianu</i> | Applied Catalysis A: General 341 (2008) 50 – 57 (link) | Chimie | 3.190 | 3.190 | - | - |
| 17 | Detection of copper ions from aqueous solutions using layered double hydroxides thin films | Applied Surface Science 352 (2015) 184 – 188 | Chimie | 3.150 | 3.150 | - | - |

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|----|---|--|-------------------|-------|-------|-------|-------|
| | deposited by PLD <i>A. Vlad, R. Birjega, A. Matei, C. Luculescu, A. Nedelcea, M. Dinescu, R. Zavoianu, O.D. Pavel</i> | (link) | | | | | |
| 18 | The effect of ageing step elimination on the memory effect presented by Mg _{0.75} Al _{0.25} hydrotalcites (HT) and their catalytic activity for cyanoethylation reaction <i>O.D. Pavel*</i> , <i>R. Zăvoianu, R. Birjega, E. Angelescu</i> | Catalysis Communications 12 (2011) 845 – 850 (link) | Chimie | 2.986 | 2.986 | 2.986 | 2.986 |
| 19 | Epoxidation of cyclohexene with O ₂ and isobutyraldehyde catalysed by cobalt modified hydrotalcites <i>E. Angelescu, R. Ionescu, O.D. Pavel, R. Zavoianua, R. Birjega, C.R. Luculescu, M. Florea, R. Olar</i> | Journal of Molecular Catalysis A: General 315 (2010) 178 – 186 (link) | Chimie | 2.872 | 2.872 | - | - |
| 20 | The activity of Mg/Al reconstructed hydrotalcites by “memory effect” in the cyanoethylation reaction <i>O.D. Pavel*</i> , <i>R. Birjega, M. Che, G. Costentin, E. Angelescu, S. Serban</i> | Catalysis Communications 9 (2008) 1974 – 1978 (link) | Chimie | 2.791 | 2.791 | 2.791 | 2.791 |
| 21 | Hydrotalcite like compounds with low Mo-loading active catalysts for selective oxidation of cyclohexene with hydrogen peroxide <i>R. Zavoianu, R. Birjega, O.D. Pavel, A. Cruceanu, M. Alifanti</i> | Applied Catalysis A: General 286 (2005) 211 – 220 (link) | Chimie | 2.728 | 2.728 | - | - |
| 22 | Retention of heavy metals on layered double hydroxides thin films deposited by pulsed laser deposition <i>A. Vlad, R. Birjega, A. Matei, C. Luculescu, B. Mitu, M. Dinescu, R. Zavoianu, O.D. Pavel</i> | Applied Surface Science 302 (2014) 99 – 104 (link) | Chimie | 2.711 | 2.711 | - | - |
| 23 | Curcumin incorporation into Zn ₃ Al layered double hydroxides - preparation, characterization and curcumin release <i>O.D. Pavel, A. Serban, R. Zavoianu, E. Bacalum, R. Birjega</i> | Crystals 10 (2020) 244 (link) | Multi-disciplinar | 2.589 | 2.589 | 2.589 | - |
| 24 | Exploring an alternative route for meixnerite synthesis. The impact | Applied Clay Science 104 (2015) | Chimie | 2.586 | 2.586 | 2.586 | - |

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|----|---|--|-------------------|-------|-------|-------|-------|
| | of the gaseous environment on the reconstruction of the lamellar structure and the catalytic performances <i>O.D. Pavel, R. Zăvoianu, R. Bîrjega, E. Angelescu, G. Costentin, M. Che</i> | 59 – 65 (link) | | | | | |
| 25 | Comparison between Me ^{II} Mg/Al hydrotalcites and hydrotalcite-supported Me(II) acetylacetonates (Me(II) = Co, Cu or Ni) catalysts for the epoxidation of cyclohexene with molecular oxygen <i>R. Zăvoianu, R. Ionescu, O.D. Pavel, R. Bîrjega, E. Angelescu</i> | Applied Clay Science 52 (2011) 1 – 10 (link) | Chimie | 2.474 | 2.474 | - | - |
| 26 | Effect of hydration temperature on the structure reconstruction of Mg-Al-Y layered materials <i>R. Zavoianu, R. Bîrjega, E. Angelescu, O.D. Pavel*</i> | Comptes Rendus Chimie 21 (2018) 318 – 326 (link) | Chimie | 2.366 | 2.366 | 2.366 | 2.366 |
| 27 | Acido-basic and catalytic properties of transition-metal containing Mg–Al hydrotalcites and their corresponding mixed oxides <i>O.D. Pavel, D. Tichit, I.-C. Marcu</i> | Applied Clay Science 61 (2012) 52 – 58 (link) | Chimie | 2.342 | 2.342 | 2.342 | - |
| 28 | Addition of alcohols to acrylic compounds catalyzed by Mg–Al LDH <i>F. Teodorescu, M. Deaconu, E. Bartha, R. Zavoianu, O.D. Pavel</i> | Catalysis Letters 144 (2014) 117 – 122 (link) | Chimie | 2.307 | 2.307 | - | - |
| 29 | Impact of the memory effect on the catalytic activity of Li–Al hydrotalcite-like compounds for the cyanoethylation reaction <i>O.D. Pavel*, R. Zavoianu, R. Bîrjega, E. Angelescu</i> | Materials Research Bulletin 45 (2010) 1106 – 1111 (link) | Multi-disciplinar | 2.146 | 2.146 | 2.146 | 2.146 |
| 30 | Adsorption properties of Mg–Al layered double hydroxides thin films grown by laser based techniques <i>A. Matei, R. Bîrjega, A. Vlad, M. Filipescu, A. Nedelcea, C. Luculescu, R. Zavoianu, O.D. Pavel, M. Dinescu</i> | Applied Surface Science 258 (2012) 9466 – 9470 (link) | Chimie | 2.112 | 2.112 | - | - |
| 31 | Memory effect of hydrotalcites and its impact on cyanoethylation reaction <i>F. Teodorescu, A.-M. Paladuta,</i> | Materials Research Bulletin 48 (2013) 2055 – 2059 (link) | Multi-disciplinar | 1.968 | 1.968 | 1.968 | 1.968 |

| | <i>O.D. Pavel*</i> | | | | | | |
|----|--|--|-------------------|---------|---------|--------|--------|
| 32 | Epoxidation of cyclohexene with H ₂ O ₂ and Acetonitrile catalyzed by Mg–Al hydrotalcite and cobalt modified hydrotalcites <i>R. Ionescu, O.D. Pavel, R. Birjega, R. Zavoianu, E. Angelescu</i> | Catalysis Letters 134 (2010) 309 – 317 (link) | Chimie | 1.907 | 1.907 | - | - |
| 33 | Vapor phase synthesis of alkylpyrazines over ZnAl mixed oxide derived from layered double hydroxides obtained by the mechanochemical method <i>F. Teodorescu, A.I. Slabu, O.D. Pavel</i> | Reaction Kinetics, Mechanisms and Catalysis 133 (2021) 863 – 877 (link) | Chimie | 1.843 | 1.843 | - | - |
| 34 | Pulsed laser deposition of Mg–Al layered double hydroxide with Ag nanoparticles <i>A. Matei, R. Birjega, A. Vlad, C. Luculescu, G. Epurescu, F. Stokker-Cheregi, M. Dinescu, R. Zavoianu, O.D. Pavel</i> | Applied Physics A volume 110 (2013) 841 – 846 (link) | Multi-disciplinar | 1.694 | 1.694 | - | - |
| | Factor impact cumulativ candidat | | | 120.201 | 120.201 | 63.624 | 47.683 |
| | Standarde minimale Comisia de Chimie | | | 100.000 | 70.000 | 50.000 | 25.000 |

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^b categorie cf. *Journal Citation Reports™, Clarivate Web of Science*

^c valoare din anul publicării articolului, cf. *Journal Citation Reports™, Clarivate Web of Science*

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