

FIȘA DE VERIFICARE
a îndeplinirii standardelor naționale minimale pentru obținerea atestatului de ABILITARE

Domeniul: **CHIMIE**

Candidat: **CIOBANU D. MARGARETA GABRIELA** / Data nașterii: **14.09.1961**, Funcția actuală: **profesor universitar**, Data numirii în funcția actuală:
01.10.2014, Instituția: **Universitatea Tehnică "Gheorghe Asachi" din Iași**

Comisia de **CHIMIE**

Criterii generale minimale						
	N_{max}	FIC	FIC _D	FIC _{AP}	FIC _{AC}	h index
Profesor / Abilitare	50	100	70	50	25	13
Margareta Gabriela CIOBANU	50	122,52	85,24	66,82	78,84	15

unde:

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.

Toate criteriile prevăzute în standardele minimale CNATDCU

sunt ÎNDEPLINITE

DETALIERE INDICATORI

- standarde minimale naționale (CNATDCU) -

Domeniul științific: CHIMIE

Direcția de cercetare principală este studierea (obținerea, caracterizarea) unor **Materiale micro- și nanostructurate**, respectiv *Biomateriale apatitice* (în special cele pe bază de hidroxiapatită) și *Materiale poroase membranare*, cu aplicații în medicină și protecția mediului.

criteriul N_{max}

criteriul FIC

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7	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., <i>Preparation and characterization of polymer – zeolite nanocomposite membranes</i> , <i>Materials Science and Engineering C - Materials for Biological Applications</i> , 27 (5-8), pp. 1138-1140, 2007	4.959
8	Carja G., Niiyama H., Gabriela Ciobanu , Aida T., <i>Towards new drugs formulations: gentamicin – anionic clay as nanohybrids</i> , <i>Materials Science and Engineering C - Materials for Biological Applications</i> , 27 (5-8), pp. 1129-1132, 2007	4.959

9	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., <i>Structure of mixed matrix membranes made with SAPO-5 zeolite in polyurethane matrix</i> , Microporous and Mesoporous Materials , 115 (1-2), pp. 61-66, 2008	4.182
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15	Maria Harja, Gabriela Buema, Laura Bulgariu, Dumitru Bulgariu, Daniel Mircea Sutiman, Gabriela Ciobanu , <i>Removal of cadmium(II) from aqueous solution by adsorption onto modified algae and ash</i> ; Korean Journal of Chemical Engineering , 32(9), pp. 1804-1811, 2015	2.476
16	Rusu L., Harja M., Simion A.I., Suteu D., Gabriela Ciobanu , Favier L.; <i>Removal of Astrazone Blue from aqueous solutions onto brown peat. Equilibrium and kinetics studies</i> ; Korean Journal of Chemical Engineering , 31 (6), pp. 1008-1015, 2014	2.476
17	Gabriela Ciobanu (autor corespondent), Harja M., Rusu L., Mocanu A.M., Luca C., <i>Acid Black 172 dye adsorption from aqueous solution by hydroxyapatite as low-cost adsorbent</i> , Korean Journal of Chemical Engineering , 31 (6), pp. 1021-1027, 2014	2.476
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20	Gabriela Ciobanu (autor corespondent), Ana Maria Bargan, Constantin Luca, <i>New bismuth-substituted hydroxyapatite nanoparticles for bone tissue engineering</i> , JOM , 67 (11), pp. 2534–2542, 2015	2.305
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22	Maria Harja, Gabriela Ciobanu , Tatjana Juzsakova, Igor Cretescu, <i>New approaches in modeling and simulation of CO2 absorption reactor by activated potassium carbonate solution</i> , Processes , 7(2), 78, 1-21, 2019	1.963
23	Gabriela Ciobanu (autor corespondent), Simona Ilisei, Maria Harja, <i>Kinetic and equilibrium studies on adsorption of Reactive Blue 19 dye from aqueous solutions by nanohydroxyapatite adsorbent</i> , Archives of Environmental Protection , vol. 42, no. 2, pp. 3–11, 2016	1.689
24	Sergiu Ciprian Focsaneanu, Petrica Vizureanu, Andrei Victor Sandu, Gabriela Ciobanu , Simona Madalina Baltatu, Daniela Vlad, <i>Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxyapatite</i> , <i>Revista de Chimie (București)</i> , 70, nr. 6, pp. 2273-2275, 2019	1.605

25	Ana Maria Bargan, Gabriela Ciobanu (autor corespondent), Teodor Măluțan, Constantin Luca, <i>Influence of Cerium(IV) and Bismuth(III) on the Luminescence Properties of the Nanocrystalline Hydroxyapatite</i> , Revista de Chimie (București), 66, nr. 11, pp. 1910-1913, 2015	1.605
26	Simona Barna, Gabriela Ciobanu (autor corespondent), Constantin Luca, Alina Costina Luca, <i>Nanohydroxyapatite - calcium fructoborate composites: synthesis and characterization</i> , Revista de Chimie (București), 66, nr. 10, pp. 1618-1621, 2015	1.605
27	Anca Mihaela Mocanu, Constantin Luca, Gabriela Ciobanu , Simona Isabela Dunca, Ion Gabriel Sandu, Alina Costina Luca, <i>Synthesis, characterization and antimicrobial activity of some new hydrazine metallic complexes</i> , Revista de Chimie (București), 66, nr. 8, pp. 1137-1142, 2015	1.605
28	Mocanu A.M., Luca C., Dunca S.I., Gabriela Ciobanu , <i>Antibacterial activity of some new hydrazide derivatives with potential biological action</i> , Revista de Chimie (București), 65 (11), 1363-1368, 2014	1.605
29	Gabriela Ciobanu , Bargan A.M., Luca C. (autor corespondent), <i>Nystatin - loaded cellulose acetate/hydroxyapatite biocomposites</i> , Revista de Chimie (Bucuresti), 64 (12), pp. 1426-1429, 2013	1.605
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31	Margareta Gabriela Ciobanu (autor corespondent), Bezdadea M., <i>SAPO-5 zeolite-filled polyurethane membranes. I. Preparation and morphological characterisation</i> , Revista de Chimie (București), 55 (3), pp. 140-143, 2004	1.605
32	Sandu I., Pascu C., Sandu I.G., Gabriela Ciobanu , Sandu A.V., Ciobanu O., <i>The obtaining and characterisation of NaCl nanocrystalline dispersions for saline type therapeutical climate. III. The evaluation of the "Saline" device reliability</i> , Revista de Chimie (București), 55 (12), pp. 975-982, 2004	1.605
33	Sandu I., Pascu C., Sandu I.G., Gabriela Ciobanu , Sandu A.V., Ciobanu O., <i>The obtaining and characterisation of NaCl nanocrystalline dispersions for saline type therapeutical climate. II The in situ analysis of saline rooms aerosols</i> , Revista de Chimie (București), 55 (10), pp. 791-796, 2004	1.605
34	Sandu I., Pascu C., Sandu I.G., Gabriela Ciobanu , Vasile V., Ciobanu O., <i>The obtaining and characterisation of NaCl nanocrystalline dispersions for saline type therapeutical climate. I. Theoretical aspects</i> , Revista de Chimie (București), 54 (10), pp. 807-812, 2003	1.605
35	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., Sandu I., Sandu A., <i>SEM and EDX studies of bioactive hydroxyapatite coatings on titanium implants</i> , Micron , 40 (1), pp. 143-146, 2009	1.530
36	Carja G., Kameshima Y., Gabriela Ciobanu , Chiriac H., Okada K., <i>New hybrid nanostructures based on oxacillin-hydrotalcite-like anionic clays and their textural properties</i> , Micron , 40 (1), pp. 147-150, 2009	1.530
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40	Carja G., Vieru A., Dranca S., Gabriela Ciobanu , Husanu E., <i>Uptake of anionic surfactants from aqueous medium by using porous anionic clays with tailored properties</i> , Desalination and Water Treatment , 26 (1-3), pp. 211-214, 2011	1.234
41	Maria Harja, Gabriela Ciobanu , Lacramioara Rusu, Liliana Lazar, <i>Effectiveness factor approach for chemical absorption process</i> , <i>Environmental Engineering and Management Journal</i> , Vol. 17, No. 4, 813-820, 2018	1.186
42	Ana Maria Mateiuc, Gabriela Ciobanu (autor corespondent), Constantin Luca, Florin Alexandru Luca, <i>Cooper(II) adsorption onto hydroxyapatite</i> , <i>Environmental Engineering and Management Journal</i> , 16 (10), pp. 2353–2 359, 2017	1.186
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46	Carja G., Popa M.I., Gabriela Ciobanu , Aelenei N., <i>Mixed oxides derived from vanadium substituted layered double hydroxides as catalysts precursors for SO2 oxidation</i> , <i>Environmental Engineering and Management Journal</i> , 1 (3), pp. 307-311, 2002	1.186
47	Gabriela Ciobanu (autor corespondent), Ilisei S., Harja M., Luca C., <i>Removal of Reactive Blue 204 Dye from Aqueous Solutions by Adsorption onto Nanohydroxyapatite</i> , Science of Advanced Materials , 5 (8), pp. 1090-1096, 2013	1.158
48	Carja G., Kameshima Y., Gabriela Ciobanu , Okada K., <i>Oleate-LDH Hybrids by the Successive Use of the Clay Structural “Memory Effect”</i> , Journal of Nanoscience and Nanotechnology , 10 (4), pp. 2880-2884, 2010	1.093
49	Carja G., Dranca S., Gabriela Ciobanu , Husanu E., Balasanian I., <i>Fabrication of mesoporous mixed oxides containing copper and cerium by using substituted anionic clays as precursors</i> , Materials Science – Poland , 27 (3), pp. 909-917, 2009	0.918
50	Rusu L., Harja M., Munteanu C., Gabriela Ciobanu , Suteu D., <i>Red and brown peat use in removing pollutants from municipal and industrial wastewater</i> , Journal of Environmental Protection and Ecology , 15 (4), 1690–1699, 2014	0.634
	N_{max} = 50	FIC = 122,52

criteriul **FIC_D**

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criteriul FIC_{AP}

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8	Gabriela Ciobanu (autor corespondent), Harja M., Rusu L., Mocanu A.M., Luca C., <i>Acid Black 172 dye adsorption from aqueous solution by hydroxyapatite as low-cost adsorbent</i> , Korean Journal of Chemical Engineering , 31 (6), pp. 1021-1027, 2014	2.476
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10	Gabriela Ciobanu (autor corespondent), Ilisei S., Harja M., Luca C., <i>Removal of Reactive Blue 204 Dye from Aqueous Solutions by Adsorption onto Nanohydroxyapatite</i> , Science of Advanced Materials , 5 (8), pp. 1090-1096, 2013	1.158
11	Gabriela Ciobanu (autor corespondent), Ciobanu O., <i>Investigation on the effect of collagen and vitamins on biomimetic hydroxyapatite coating formation on titanium surfaces</i> , Materials Science and Engineering C - Materials for Biological Applications , 33 (3), pp. 1683-1688, 2013	4.959
12	Gabriela Ciobanu (autor corespondent), Luca C., Ilisei S., Luca A.C., <i>New polyurethane – hydroxyapatite composites membranes</i> , Environmental Engineering and Management Journal , 11 (2), pp. 291-295, 2012	1.186
13	Gabriela Ciobanu (autor corespondent), Ilisei S., Luca C., Carja G., Ciobanu O., <i>The effect of vitamins to hydroxyapatite growth on porous polyurethane substrate</i> , Progress in Organic Coatings , 74 (4), pp. 648-653, 2012	3.420

14	Gabriela Ciobanu (autor corespondent), Carja G., <i>Electrolyte removal by mixed matrix membranes based on polyurethane</i> , Desalination , 250 (1-3), pp. 698-701, 2010	6.035
15	Gabriela Ciobanu (autor corespondent), Ignat D., Carja G., Luca C., <i>Hydroxyapatite/polyurethane composite membranes for lead ions removal</i> , <i>Environmental Engineering and Management Journal</i> , 8 (6), pp. 1347-1350, 2009	1.186
16	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., Sandu I., Sandu A., <i>SEM and EDX studies of bioactive hydroxyapatite coatings on titanium implants</i> , Micron , 40 (1), pp. 143-146, 2009	1.530
17	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., <i>Structure of mixed matrix membranes made with SAPO-5 zeolite in polyurethane matrix</i> , Microporous and Mesoporous Materials , 115 (1-2), pp. 61-66, 2008	4.182
18	Gabriela Ciobanu , Carja G., Ciobanu O., <i>Structural characterization of hydroxyapatite layer coatings on titanium supports</i> , Surface and Coatings Technology , 202 (11), pp. 2467-2470, 2008	3.192
19	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., <i>Use of SAPO-5 zeolite-filled polyurethane membranes in wastewater treatment</i> , Desalination , 222 (1-3), pp. 197-201, 2008	6.035
20	Margareta Gabriela Ciobanu (autor corespondent), Pop Ghe., Ciobanu O., <i>Hydroxyapatite coatings on titanium implants</i> , <i>Revista de Chimie (Bucuresti)</i> , 58 (12), pp. 1313-1315, 2007	1.605
21	Gabriela Ciobanu (autor corespondent), Carja G., Ciobanu O., <i>Preparation and characterization of polymer – zeolite nanocomposite membranes</i> , Materials Science and Engineering C - Materials for Biological Applications , 27 (5-8), pp. 1138-1140, 2007	4.959
22	Margareta Gabriela Ciobanu (autor corespondent), Bezdadea M., <i>SAPO-5 zeolite-filled polyurethane membranes. I. Preparation and morphological characterisation</i> , <i>Revista de Chimie (București)</i> , 55 (3), pp. 140-143, 2004	1.605
	FIC_{AP} =	66,82

criteriul FIC_{AC}

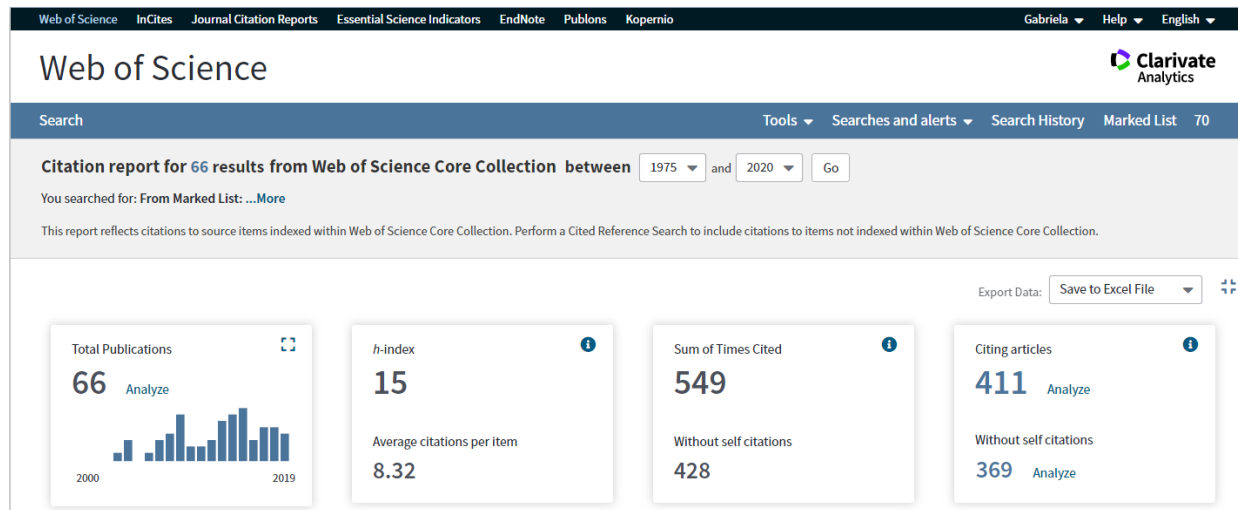
FIC_{AC} = factorul de impact cumulat minimal din publicații în calitate de autor de corespondență

Nr.	Titlul lucrării, autorii, revista, vol., nr., pag (de la – până la), an	FI (2018)
1	Gabriela Ciobanu (autor corespondent), Maria Harja, <i>Bismuth-doped hydroxyapatite coatings on titanium implants with improved radiopacity and antimicrobial activity</i> , Nanomaterials , 9 (12), 1696, 2019	4.034
2	Gabriela Ciobanu (autor corespondent), Maria Harja, <i>Cerium-doped hydroxyapatite/collagen coatings on titanium implants</i> , Ceramics International , 45 (2), pp. 2852–2857, 2019	3.450
3	Maria Harja, Gabriela Ciobanu (autor corespondent), <i>Studies on adsorption of oxytetracycline from aqueous solutions onto hydroxyapatite</i> , Science of the Total Environment , vol. 628–629, pp. 36–43, 2018	5.589
4	Ana Maria Mateiuc, Gabriela Ciobanu (autor corespondent), Constantin Luca, Florin Alexandru Luca, <i>Cooper(II) adsorption onto hydroxyapatite</i> , <i>Environmental Engineering and Management Journal</i> , 16 (10), pp. 2353–2 359, 2017	1.186
5	Gabriela Ciobanu (autor corespondent), Octavian Ciobanu, <i>High performance ultrafiltration mixed-matrix membranes based on cellulose acetate and nanohydroxyapatite</i> , Desalination and Water Treatment , 57, no. 48-49, pp. 23257-23265, 2016	1.234
6	Gabriela Ciobanu (autor corespondent), Simona Ilisei, Maria Harja, <i>Kinetic and equilibrium studies on adsorption of Reactive Blue 19 dye from aqueous solutions by nanohydroxyapatite adsorbent</i> , Archives of Environmental Protection (Polonia), vol. 42, no. 2, pp. 3–11, 2016	1.689
7	Ana Maria Bargan, Gabriela Ciobanu (autor corespondent), Teodor Măluțan, Constantin Luca, <i>Influence of Cerium(IV) and Bismuth(III) on the Luminescence Properties of the Nanocrystalline Hydroxyapatite</i> , <i>Revista de Chimie (București)</i> , 66, nr. 11, pp. 1910-1913, 2015	1.605
8	Simona Barna, Gabriela Ciobanu (autor corespondent), Constantin Luca, Alina Costina Luca, <i>Nanohydroxyapatite - calcium fructoborate composites: synthesis and characterization</i> , <i>Revista de Chimie (București)</i> , 66, nr. 10, pp. 1618-1621, 2015	1.605
9	Gabriela Ciobanu (autor corespondent), Ana Maria Bargan, Constantin Luca, <i>New cerium(IV)-substituted hydroxyapatite nanoparticles: preparation and characterization</i> , Ceramics International , 41 (9), pp. 12192–12201, 2015	3.450
10	Gabriela Ciobanu (autor corespondent), Ana Maria Bargan, Constantin Luca, <i>New bismuth-substituted hydroxyapatite nanoparticles for bone tissue engineering</i> , JOM , 67 (11), pp. 2534–2542, 2015	2.305
11	Gabriela Ciobanu (autor corespondent), Octavian Ciobanu, <i>Mixed-matrix membranes based on polyurethane containing nanohydroxyapatite and its potential applications</i> , Journal of Applied Polymer Science , 132 (17), art. no. 41813, 2015	2.188
12	Bargan A.M., Gabriela Ciobanu (autor corespondent), Luca C., Diaconu M., Sandu I.G., <i>Cellulose acetate / hydroxyapatite / nystatin biocomposites with antifungal activity</i> , <i>Materiale Plastice</i> , 51 (2), pp. 167-171, 2014	1.393
13	Gabriela Ciobanu (autor corespondent), Harja M., Rusu L., Mocanu A.M., Luca C., <i>Acid Black 172 dye adsorption from aqueous solution by hydroxyapatite as low-cost adsorbent</i> , Korean Journal of Chemical Engineering , 31 (6), pp. 1021-1027, 2014	2.476

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27	Margareta Gabriela Ciobanu (autor corespondent), Bezdadea M., <i>SAPO-5 zeolite-filled polyurethane membranes. I. Preparation and morphological characterisation</i> , Revista de Chimie (București) , 55 (3), pp. 140-143, 2004	1.605
28	Bezdadea M., Savin Al., Gabriela Ciobanu (autor corespondent), <i>Use of glycidils in the modification of polyurethane membrane structures</i> , Polymer International , 32 (4), pp. 407-410, 1993	2.433
		FIC_{AC} = 78,84

criteriul h index

h index = 15



Data: 10.03.2020

Prof. Dr. Chim. Margareta Gabriela CIOBANU