ACADEMIA ROMÂNĂ
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Anexa nr.3

AVIZAT,

Director ȘCOALA DOCTORALĂ DE ȘTIINȚE CHIMICE

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naţionale* [] DA| [] | NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naţionale* [X] DA| [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

FIŞA DE VERIFICARE
a îndeplinirii standardelor IOSUD

Candidat: CULIȚĂ DANIELA-CRISTINA

Criterii generale:

Categorie habilitare	Nmax(*)	FIC(**)	FIC_D(***)	FIC_{AP}(****)	FIC_{AC}(*****)	H index
Cerințe	50	100	70	50	25	13
Realizat	45	198.912	194.101	88.449	72.449	25

(*) Nmax - 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.

Data: 09.02.2026

Semnatura:

*se va alege una dintre variante

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FIȘA DE VERIFICARE

a îndeplinirii standardelor IOSUD

Nr. Crt.	Listă lucrări	FIC	FIC_D	FIC_{AP}	FIC_{AC}
1	Leonties, AR; Raducan, A; **Culita, DC**; Alexandrescu, E; Morosan, A; Mihaiescu, DE; Aricov, L, *Laccase immobilized on chitosan-polyacrylic acid microspheres as highly efficient biocatalyst for naphthol green B and indigo carmine degradation*, **CHEMICAL ENGINEERING JOURNAL, 2022**, 439, 135654 https://doi.org/10.1016/j.cej.2022.135654	15.1	15.1	-	-
2	Tudose, M; Anghel, EM; Hristea, EN; Voicescu, M; Somacescu, S; **Culita, DC**; Musuc, AM; Dumitrascu, F; Hanganu, A; Kuncser, A; Zorila, FL; Alexandru, M; Acasandrei, MA; Savu, DI, *Benzofurazan derivatives modified graphene oxide nanocomposite: Physico-chemical characterization and interaction with bacterial and tumoral cells*, **MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, 2021**, 123, 112028 https://doi.org/10.1016/j.msec.2021.112028	8.457	8.457	-	-
3	Simonescu, CM; Mason, TJ; Calinescu, I; Lavric, V; Vînatoru, M; Melinescu, A; **Culita, DC**, *Ultrasound assisted preparation of calcium alginate beads to improve absorption of Pb^{2} from water*, **ULTRASONICS SONOCHEMISTRY, 2020**, 68, 105191 https://doi.org/10.1016/j.ultsonch.2020.105191	7.491	7.491	-	-
4	Patrinoiu, G; Dumitru, R; **Culita, DC**; Munteanu, C; Birjega, R; Calderon-Moreno, JM; Cucos, A; Pelinescu, D; Chifiriuc, MC; Bleotu, C; Carp, O, *Self-assembled zinc oxide hierarchical structures with enhanced antibacterial properties from stacked chain-like zinc oxalate compounds*, **JOURNAL OF COLLOID AND INTERFACE SCIENCE, 2019**, 552, 258-270 https://doi.org/10.1016/j.jcis.2019.05.051	7.489	7.489	-	-
5	Iacoban, AC; Bacalum, M; Raileanu, M; Moisa, R; **Culita, DC**; Radu, D; Dinu, AA; Neatu, F; Rostas, AM; Vlaicu, ID, *The cytotoxic effect of Mn^{2+}/Mn^{3+}-doped Simonkolleite nano-platelets on human fibroblasts and mouse melanoma cells*, **APPLIED SURFACE SCIENCE, 2026**, 720, 165176 https://doi.org/10.1016/j.apsusc.2025.165176	6.9	6.9	-	-
6	Marinescu, G; **Culita, DC***; Romanitan, C; Somacescu, S; Ene, CD; Marinescu, V; Negreanu, DG; Maxim, C; Popa, M; Marutescu, L; Stan, M; Chifiriuc, C, *Novel hybrid materials based on heteroleptic Ru(III) complexes immobilized on SBA-15 mesoporous silica as highly potent antimicrobial and cytotoxic agents*, **APPLIED SURFACE SCIENCE, 2020**, 520, 146379 https://doi.org/10.1016/j.apsusc.2020.146379	6.707	6.707	6.707	6.707
7	Ene, CD; Cucos, P; Ianculescu, A; **Culita, DC**; Anghel, EM; Cucos, A; Atkinson, I; Chifiriuc, MC; Calderón-Moreno, JM; Carp, O, *Benign by design: porous spherical ZnO-alginate family via a dual-template synthesis*, **APPLIED SURFACE SCIENCE, 2022**, 580, 152231 https://doi.org/10.1016/j.apsusc.2021.152231	6.7	6.7	-	-

8	Mük, GR; Popa, M; Chifiriuc, MC; Voicu, SN; Florea, M; Neatu, F; Mihalache, I; Stoian, M; Anghel, EM; **Culita, DC**; Mitran, RA; Petrescu, S; Tudose, M, *Aminocoumarin derivatives grafted on graphene oxide - new antimicrobial agents to combat the resistance of Mycobacterium tuberculosis and ESKAPE pathogens*, **APPLIED SURFACE SCIENCE, 2023**, 639, 158224 https://doi.org/10.1016/j.apsusc.2023.158224	6.3	6.3	-	-
9	Tudose, M; Anghel, EM; **Culita, DC**; Somacescu, S; Calderon-Moreno, J; Tecuceanu, V; Dumitrascu, FD; Dracea, O; Popa, M; Marutescu, L; Bleotu, C; Curutiu, C; Chifiriuc, MC, *Covalent coupling of tuberculostatic agents and graphene oxide: A promising approach for enhancing and extending their antimicrobial applications*, **APPLIED SURFACE SCIENCE, 2019**, 471, 553-565 https://doi.org/10.1016/j.apsusc.2018.11.242	6.182	6.182	-	-
10	Simonescu, CM; Lavric, V; Musina, A; Antonescu, OM; **Culita, DC**; Marinescu, V; Tardei, C; Oprea, O; Pandele, AM, *Experimental andmodeling of cadmiumions removal by chelating resins*, **JOURNAL OF MOLECULAR LIQUIDS, 2020**, 307, 112973 https://doi.org/10.1016/j.molliq.2020.112973	6.165	6.165	-	-
11	Anastasescu, C; Neagu, S; Preda, S; **Culita, DC**; Stancu, M; Banciu, C; Munteanu, C; Bratan, V; Calderon-Moreno, JM; State, R; Anastasescu, M; Enache, M; Balint, I; Zaharescu, M, *Antibacterial Activity of ZnSe, ZnSe-TiO_2 and TiO_2 Particles Tailored by Lysozyme Loading and Visible Light Irradiation*, **ANTIOXIDANTS, 2023**, 12, 691 https://doi.org/10.3390/antiox12030691	6.0	6.0	-	-
12	Negoescu, D; Atkinson, I; Gherendi, M; **Culita, DC**; Baran, A; Petrescu, S; Trica, B; Pelinescu, D; Ionescu, R; Bratan, V; Parvulescu, V, *Brij 58-activated carbon assisted synthesis of $Ag/Ag_2O/TiO_2$-AC photocatalysts for efficient organic pollutants degradation*, **JOURNAL OF ALLOYS AND COMPOUNDS, 2023**, 931, 167528 https://doi.org/10.1016/j.jallcom.2022.167528	5.8	5.8	-	-
13	Simonescu, CM; Tatarus, A; **Culita, DC***; Stanica, N; Butoi, B; Kuncser, A, *Facile Synthesis of Cobalt Ferrite ($CoFe_2O_4$) Nanoparticles in the Presence of Sodium Bis (2-ethyl-hexyl) Sulfosuccinate and Their Application in Dyes Removal from Single and Binary Aqueous Solutions*, **NANOMATERIALS, 2021**, 11, 3128 https://doi.org/10.3390/nano11113128	5.719	5.719	5.719	5.719
14	Simonescu, CM; Tatarus, A; **Culita, DC***; Stanica, N; Ionescu, IA; Butoi, B; Banici, AM, *Comparative Study of $CoFe_2O_4$ Nanoparticles and CoFe2O4-Chitosan Composite for Congo Red and Methyl Orange Removal by Adsorption*, **NANOMATERIALS, 2021**, 11, 711 https://doi.org/10.3390/nano11030711	5.719	5.719	5.719	5.719
15	Tudose, M; **Culita, DC***; Baratoiu-Carpen, RD; Mitran, RA; Kuncser, A; Romanitan, C; Popescu, RC; Savu, DI, *Novel Antitumor Agents Based on Fluorescent Benzofurazan Derivatives and Mesoporous Silica*, **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022**, 23, 15663 https://doi.org/10.3390/ijms232415663	5.6	5.6	5.6	5.6

16	Simonescu, CM; Chipurici, P; Calinescu, I; Vinatoru, M; Toma, EN; **Culita, DC**; Ene, VL; Mason, TJ, *Effects of ultrasounds and microwaves on the morphology and adsorption capacity of calcium alginate*, **COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 2024**, 682, 132906 https://doi.org/10.1016/j.colsurfa.2023.132906	5.4	5.4	-	-
17	Atkinson, I; Seciu-Grama, AM; Petrescu, S; **Culita, DC**; Mocioiu, OC; Voicescu, M; Mitran, RA; Lincu, D; Prelipcean, AM; Craciunescu, O, *Cerium-Containing Mesoporous Bioactive Glasses (MBGs)-Derived Scaffolds with Drug Delivery Capability for Potential Tissue Engineering Applications*, **PHARMACEUTICS, 2022**, 14, 1169 https://doi.org/10.3390/pharmaceutics14061169	5.4	5.4	-	-
18	Simonescu, CM; **Culita, DC***; Tatarus, A; Mocanu, T; Marinescu, G; Mitran, RA; Atkinson, I; Kuncser, A; Stanica, N, *Novel Magnetic Nanocomposites Based on Carboxyl-Functionalized SBA-15 Silica for Effective Dye Adsorption from Aqueous Solutions*, **NANOMATERIALS, 2022**, 12, 2247 https://doi.org/10.3390/nano12132247	5.3	5.3	5.3	5.3
19	Tudose, M; **Culita, DC***; Musuc, AM; Somacescu, S; Ghica, C; Chifiriuc, MC; Bleotu, C, *Lipoic acid functionalized SiO_2@Ag nanoparticles. Synthesis, characterization and evaluation of biological activity*, **MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, 2017**, 79, 499-506 https://doi.org/10.1016/j.msec.2017.05.083	5.080	5.080	5.080	5.080
20	Marinescu, G; **Culita, DC***; Mocanu, T; Mitran, RA; Petrescu, S; Stan, MS; Chifiriuc, MC; Popa, M, *New Nanostructured Materials Based on Mesoporous Silica Loaded with Ru(II)/Ru(III) Complexes with Anticancer and Antimicrobial Properties*, **PHARMACEUTICS, 2023**, 15, 1458 https://doi.org/10.3390/pharmaceutics15051458	4.9	4.9	4.9	4.9
21	Dyakova, L; Zhivkova, T; Abudalleh, A; **Culita, DC#**; Mocanu, T; Madalan, AM; Hanganu, A; Marinescu, G; Naydenov, E; Alexandrova, R, *{Zn^{II}_2} and {$Zn^{II}Au^{I}$} Metal Complexes with Schiff Base Ligands as Potential Antitumor Agents Against Human Glioblastoma Multiforme Cells*, **MOLECULES, 2026**, 31, 173 https://doi.org/10.3390/molecules31010173	4.6	4.6	4.6	-
22	Simonescu, CM; **Culita, DC***; Marinescu, G; Atkinson, I; Marinescu, V; Oprea, O; Stanica, N, *Novel Magnetically Recoverable Amino-Functionalized MIL-101(Fe) Composite with Enhanced Adsorption Capacity for Pb(II) and Cd(II) Ions*, **MOLECULES, 2025**, 30, 2879 https://doi.org/10.3390/molecules30132879	4.6	4.6	4.6	4.6
23	Tudose, M; **Culita, DC***; Voicescu, M; Musuc, AM; Kuncser, AC; Bleotu, C; Popa, M; Marutescu, L; Chifiriuc, MC; Nicolescu, M; Deleanu, C, *Fluorescent coumarin-modified mesoporous SBA-15 nanocomposite: Physico-chemical characterization and interaction with prokaryotic and eukaryotic cells*, **MICROPOROUS AND MESOPOROUS MATERIALS, 2019**, 288, 109583. https://doi.org/10.1016/j.micromeso.2019.109583	4.551	4.551	4.551	4.551

24	Popescu, T; Matei, CO; Vlaicu, ID; Tivig, I; Kuncser, AC; Stefan, M; Ghica, D; Miclea, LC; Savopol, T; **Culita, DC**; Moisescu, MG, *Influence of surfactant-tailored Mn-doped ZnO nanoparticles on ROS production and DNA damage induced in murine fibroblast cells*, **SCIENTIFIC REPORTS, 2020**, 10, 18062. https://doi.org/10.1038/s41598-020-74816-0	4.380	4.380	-	-
25	Mocanu, T; Ene, CD; **Culita, DC**[#]; Maxim, C; Lete, C; Stanica, N; Romanitan, C; Marinescu, G; Andruh, M, *New dicyanide-salen based chromium(III) complexes: Synthesis, crystal structures, electrochemical and thermal investigations*, **JOURNAL OF MOLECULAR STRUCTURE, 2023**, 1285, 135463 https://doi.org/10.1016/j.molstruc.2023.135463	4.0	4.0	4.0	-
26	Dinev, D; Popova, KB; Zhivkova, T; Dyakova, L; Abudalleh, A; Alexandrova, R; **Culita, DC**[#]; Mocanu, T; Maxim, C; Marinescu, G, *Synthesis, structural characterization, and cytotoxic activity in tumor cells of Cu(II) and Co(II) complexes with o-vanillin amino acids Schiff bases*, **APPLIED ORGANOMETALLIC CHEMISTRY, 2022**, 36, e6862. https://doi.org/10.1002/aoc.6862	3.9	3.9	3.9	-
27	Simonescu, CM; Dumitru, F; Zarnescu, B; **Culita, DC**; Razvan, A; Oprea, O; Trusca, R; Vasile, E, *Competitive Adsorption of Aqueous Cd(II) and Pb(II) Solutions onto Silicas Synthesized with Saponin as Template Agent*, **JOURNAL OF COMPOSITES SCIENCE, 2024**, 8, 227. https://doi.org/10.3390/jcs8060227	3.7	3.7	-	-
28	Zhivkova, T; **Culita, DC**[#]; Abudalleh, A; Dyakova, L; Mocanu, T; Madalan, AM; Georgieva, M; Miloshev, G; Hanganu, A; Marinescu, G; Alexandrova, R, *Homo- and heterometallic complexes of Zn(II), {Zn(II)Au(I)}, and {Zn(II)Ag(I)} with pentadentate Schiff base ligands as promising anticancer agents*, **DALTON TRANSACTIONS, 2023**, 52, 12282-12295. https://doi.org/10.1039/D3DT01749D	3.5	3.5	3.5	-
29	Petrova, Z; Mocanu, T; Spasov, R; Hanganu, A; Marinescu, G; **Culita, DC***; Alexandrova, R, *Antitumor activity of ruthenium(III) complexes with $[N_2O_2]$-tetradentate Schiff base ligands*, **JOURNAL OF INORGANIC BIOCHEMISTRY, 2025**, 266, 112853. https://doi.org/10.1016/j.jinorgbio.2025.112853	3.2	3.2	3.2	3.2
30	Codrea, CI; Lincu, D; Atkinson, I; **Culita, DC**; Croitoru, AM; Dolete, G; Trusca, R; Vasile, BS; Stan, MS; Ficai, D; Ficai, A, *Comparison between Two Different Synthesis Methods of Strontium-Doped Hydroxyapatite Designed for Osteoporotic Bone Restoration*, **MATERIALS, 2024**, 17, 1472 https://doi.org/10.3390/ma17071472	3.2	3.2	-	-
31	Mousa, NE; Simonescu, CM; Patescu, RE; Onose, C; Tardei, C; **Culita, DC**; Oprea, O; Patroi, D; Lavric, V, *Pb^{2+} removal from aqueous synthetic solutions by calcium alginate and chitosan coated calcium alginate*, **REACTIVE & FUNCTIONAL POLYMERS, 2016**, 109, 137-150 https://doi.org/10.1016/j.reactfunctpolym.2016.11.001	3.151	3.151	-	-

32	**Culita, DC***; Simonescu, CM; Dragne, M; Stanica, N; Munteanu, C; Preda, S; Oprea, O, *Effect of surfactant concentration on textural, morphological and magnetic properties of $CoFe_2O_4$ nanoparticles and evaluation of their adsorptive capacity for Pb(II) ions*, **CERAMICS INTERNATIONAL, 2015**, 41, 13553-13560. https://doi.org/10.1016/j.ceramint.2015.07.150	2.758	2.758	2.758	2.758
33	Todan, L; Dascalescu, T; Preda, S; Andronescu, C; Munteanu, C; **Culita, DC***; Rusu, A; State, R; Zaharescu, M, *Porous nanosized oxide powders in the MgO-TiO_2 binary system obtained by sol-gel method*, **CERAMICS INTERNATIONAL, 2014**, 40, 15693-15701. https://doi.org/10.1016/j.ceramint.2014.07.092	2.605	-	2.605	2.605
34	**Culita, DC***; Simonescu, CM; Patescu, RE; Dragne, M; Stanica, N; Oprea, O, *o-Vanillin functionalized mesoporous silica - coated magnetite nanoparticles for efficient removal of Pb(II) from water*, **JOURNAL OF SOLID STATE CHEMISTRY, 2016**, 238, 311-320 https://doi.org/10.1016/j.jssc.2016.04.003	2.299	2.299	2.299	2.299
35	**Culita, DC***; Patron, L; Oprea, O; Bartha, C; Palade, P; Teodorescu, V; Filoti, G, *Detailed characterization of functionalized magnetite and ascertained effects*, **JOURNAL OF NANOPARTICLE RESEARCH, 2013**, 15, 1916-1930. https://doi.org/10.1007/s11051-013-1916-7	2.278	2.278	2.278	2.278
36	Avramescu, S; Petrescu, S; **Culita, DC**; Tudose, M; Hanganu, A; Zarafu, I; Ionita, P, *A mixed organic functionalized silica-graphene oxide as advanced material for pollutant removal*, **JOURNAL OF NANOPARTICLE RESEARCH, 2020**, 22, 194. https://doi.org/10.1007/s11051-020-04935-2	2.253	2.253	-	-
37	Todan, L; Andronescu, C; Vuluga, DM; **Culita, DC***; Zaharescu, M, *Thermal behavior of silicophosphate gels obtained from different precursors*, **JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2013**, 114, 91-99. https://doi.org/10.1007/s10973-012-2875-4	2.206	-	2.206	2.206
38	**Culita, DC***; Dyakova, L; Marinescu, G; Zhivkova, T; Spasov, R; Patron, L; Alexandrova, R; Oprea, O, *Synthesis, Characterization and Cytotoxic Activity of Co(II), Ni(II), Cu(II), and Zn(II) Complexes with Nonsteroidal Antiinflamatory Drug Isoxicam as Ligand*, **JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 2019**, 29, 580-591. https://doi.org/10.1007/s10904-018-1033-2	1.941	1.941	1.941	1.941
39	**Culita, DC***; Simonescu, CM; Patescu, RE; Preda, S; Stanica, N; Munteanu, C; Oprea, O, *Polyamine Functionalized Magnetite Nanoparticles as Novel Adsorbents for Cu(II) Removal from Aqueous Solutions*, **JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 2017**, 27, 490-502 https://doi.org/10.1007/s10904-016-0491-7	1.754	1.754	1.754	1.754
40	Carp, O; Patron, L; **Culita, DC***; Budrugeac, P; Feder, M; Diamandescu, L, *Thermal analysis of two types of dextran-coated magnetite*, **JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2010**, 101, 181-187 https://doi.org/10.1007/s10973-009-0593-3	1.752	1.752	1.752	1.752

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41	**Culita, DC***; Dyakova, L; Marinescu, G; Zhivkova, T; Georgieva, M; Vasileva, B; Spasov, R; Miloshev, G; Kalfin, R; Vidakovic, M; Oprea, O; Alexandrova, R, *Synthesis, characterization and cytotoxicity evaluation of Ni(II), Cu(II) and Zn(II) complexes with deoxycholate ligand*, **FARMACIA, 2021**, 69, 446-460. https://doi.org/10.31925/farmacia.2021.3.7	1.550	1.550	1.550	1.550
42	Tudose, M; **Culita, DC***; Munteanu, C; Pandele, J; Hristea, E; Ionita, P; Zarafu, I; Chifiriuc, MC, *Antibacterial Activity Evaluation of Silver Nanoparticles Entrapped in Silica Matrix Functionalized with Antibiotics*, **JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 2015**, 25, 869-878 https://doi.org/10.1007/s10904-015-0176-7	1.308	1.308	1.308	1.308
43	Negreanu, DG; **Culita, DC**; Maxim, C; Shova, S; Marinescu, G; Andruh, M, *Dicyanido Ru(III) complexes: synthesis and crystal structures*, **REVUE ROUMAINE DE CHIMIE, 2018**, 63, 1181-1189.	0.395	0.395	-	-
44	**Culita, DC***; Marinescu, G; Patron, L; Tuna, F; Stanica, N; Yun, M, *Coordination compounds of Co(II), Ni(II), Cu(II) and Zn(II) with ursodeoxycholic acid*, **REVUE ROUMAINE DE CHIMIE, 2010**, 55, 63-67	0.311	0.311	0.311	0.311
45	**Culita, DC***; Marinescu, G; Patron, L; Diamandescu, L, *Synthesis and characterization of maltol modified magnetite nanoparticles*, **REVUE ROUMAINE DE CHIMIE, 2010**, 55, 131-135.	0.311	0.311	0.311	0.311

** Autor de corespondenta ; # Contributie egala cu primul autor;*
Factorii de impact utilizati sunt cei corespunzatori anului in care a fost publicata lucrarea.

Data: 09.02.2026

Semnătura:

ACADEMIA ROMÂNĂ
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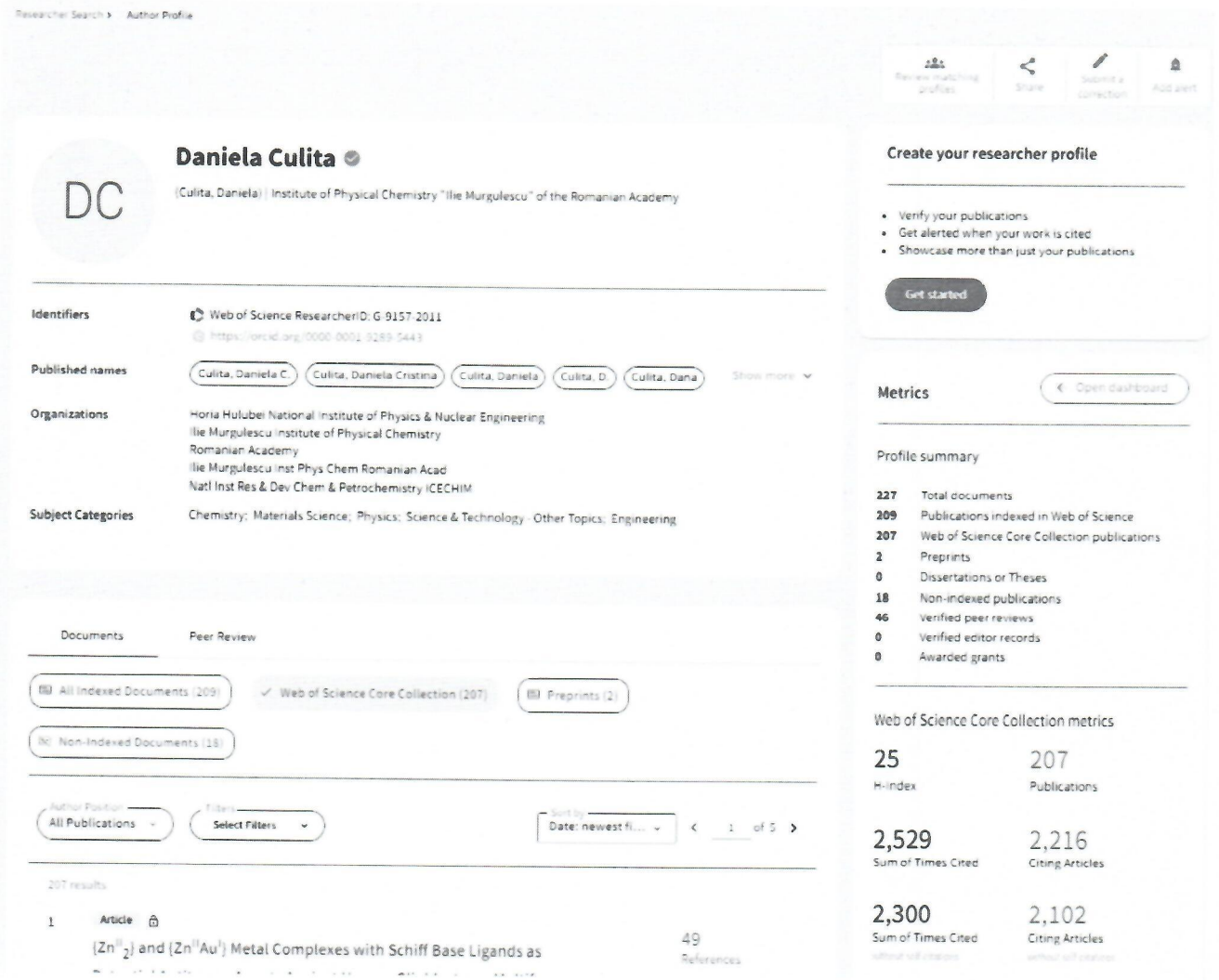
Indice H (conform Web of Science) : 25



Data: 09.02.2026

Semnătura: