Fișa de verificare a îndeplinirii standardelor minimale și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare (potrivit Ordinului de Ministru 6129/20.12.2016)

ANEXA nr. 18 – COMISIA DE INGINERIA MEDIULUI

Candidat: Conf. dr. VARVARA Simona Camelia

Nr. crt.	DATE ARTICOL *autor de corespondență*	Autor principal (prim autor sau autor de corespondență)	Numărul total de autori	Ultimul factor de impact (la momentul înscrierii la concurs)	Factorul de impact cumulat (FIC)
1	R. Bostan, M. Glevitzky, **Simona Varvara**, G-A. Dumitrel, G.I. Rusu, M. Popa, I. Glevitzky, M.L. Vică, Utilization of natural adsorbents in the purification of used sunflower and palm cooking oils, **Applied Sciences-Basel** 14(11), 2024, 4417 https://doi.org/10.3390/app14114417	NU	8	2.5	0.312
2	M.S. Kirgiz, J. Mirza, S. Cuc, D. Prodan, C. Sarosi, I. Perhaita, R. Carpa, M. Moldovan, D. Popa, **Simona Varvara**, M. Popa, Physico-antibacterial feature and SEM morphology of bio-hydraulic lime mortars incorporating nano-graphene oxide and binary combination of nano-graphene oxide with nano silver, fly ash, zinc, and titanium powders, **Buildings** 13(1), 2023, 172 https://doi.org/10.3390/buildings13010172	NU	11	3.1	0.293
3	G. Damian, **Simona Varvara***, Assessment of *Cyprinus carpio* scales as a low-cost and effective biosorbent for the removal of heavy metals from the acidic mine drainage generated at Rosia Montana Gold Mine (Romania), **Water** 14, 2022, 3734 https://doi.org/10.3390/w14223734	DA NP**1 > 1	2	3	3

4	**Simona Varvara***, C. Berghian-Grosan*, G. Damian, M. Popa, F. Popa, Combined electrochemical, Raman analysis and machine learning assessments of the inhibitive properties of an 1,3,4-oxadiazole-2-thiol derivative against carbon steel corrosion in HCl solution, **Materials** 15(6), 2022, 2224 https://doi.org/10.3390/ma15062224	DA NP2 > 1	5	3.1	3.1
5	**Simona Varvara***, G. Damian, R. Bostan, M. Popa Inhibition effect of Tantum Rosa drug on the corrosion of copper in 3.5 wt.% NaCl solution, **International Journal of Electrochemical Science** 17(9), 2022, Article Number 220958 https://doi.org/10.20964/2022.09.56	DA NP3 > 1	4	1.3	1.3
6	D. Popa, D. Prodan, **Simona Varvara**, M. Popa, S. Cuc, C. Sarosi, M. Moldovan, R. Ivan, R. Ene, Properties evolution of some hydraulic mortars incorporating graphene oxides, **Buildings**, 12(6), 2022, 864 https://doi.org/10.3390/buildings12060864	NU	9	3.1	0.344
7	D. Prodan, M. Moldovan, G. Furtos, C. Saros, M. Filip, I. Perhait, R. Carpa, M. Popa, S. Cuc, **Simona Varvara**, D. Popa, Synthesis and characterization of some graphene oxide powders used as additives in hydraulic mortars, **Applied Sciences-Basel**, 11(23), 2021, 11330 https://doi.org/10.3390/app112311330	NU	11	2.5	0.227
8	**Simona Varvara***, C. Berghian-Grosan*, R. Bostan, R. Lucacel Ciceo, Z. Salarvand, M. Talebian, K. Raeissi, J. Izquierdo, R. M. Souto, Experimental characterization, machine learning analysis and computational modelling of the high effective inhibition of copper corrosion by 5-(4-pyridyl)-1,3,4-oxadiazole-2-thiol in saline environment, **Electrochimica Acta** 398, 2021, Article Number 139282, https://doi.org/10.1016/j.electacta.2021.139282	DA NP4 > 1	9	5.5	5.5
9	**Simona Varvara***, S. A. Dorneanu, A. Okos, L. M. Mureşan, R. Bostan, M. Popa, D. Marconi, P. Ilea, Dissolution of metals	DA	8	3.1	3.1

	in different bromide-based systems: electrochemical measurements and spectroscopic investigations, **Materials** 13(16) 2020, Article Number 3630 https://doi.org/10.3390/ma13163630	NP5 > 1			
10	**Simona Varvara***, G. Canigla, J. Izquierdo, R. Bostan, L. Găină, O. Bobiș, R. M. Souto, Multiscale electrochemical analysis of the corrosion control of bronze in simulated acid rain by horse-chestnut (*Aesculus hippocastanum L.*) extract as green inhibitor, **Corrosion Science** 165, 2020, Article Number 108381 https://doi.org/10.1016/j.corsci.2019.108381	DA NP6 > 1	7	7.4	7.4
11	**Simona Varvara***, S. A. Dorneanu, A. Okos, R. Bostan, M. Popa, G. Damian, P. Ilea, Dissolution of nickel in bromide-based solutions used as lixiviants for waste printed circuit boards, **Journal of Environmental Protection and Ecology** 21(2), 2020, pp. 551-560 WOS:000566784600019	DA	7	0.507	0.507
12	**Simona Varvara***, R. Bostan M. Popa, F. Popa, Doxepin as corrosion inhibitor for copper in 3.5 wt. % NaCl solution, **Studia Universitatis Babeș-Bolyai Chemia** 65(3), 2020, pp. 215-226 https://doi.org/10.24193/subbchem.2020.3.17	DA	4	0.5	0.5
13	**Simona Varvara***, L. Gaina, R. Bostan, F. Popa, A. Grozav, Phenothiazinyl-thiazolyl-hydrazine derivatives as corrosion inhibitors for carbon steel in 1.0 M HCl: Electrochemical, SEM-EDX and DFT investigations, **International Journal of Electrochemical Science**, 13(9), 2018, pp. 8338-8364 https://doi.org/10.20964/2018.09.32	DA NP7 > 1	5	1.3	1.3
14	**Simona Varvara***, Roxana Bostan; O Bobiș, L. Găină, F. Popa, V. Mena, R. M. Souto, Propolis as a green corrosion inhibitor for bronze in weakly acidic solution, **Applied Surface Science** 426, 2018, pp. 1100-1112	DA NP8 > 1	7	6.3	6.3

	https://doi.org/10.1016/j.apsusc.2017.07.230				
15	R. Bostan, **Simona Varvara***, L. Găină, T. Petrișor Jr., L.M. Mureșan, Protective effect of inhibitor-containing nitrocellulose lacquer on artificially patinated bronze, **Progress in Organic Coatings,** 111, 2017, pp. 416-427 https://doi.org/10.1016/j.porgcoat.2016.08.004	DA NP9 > 1	5	6.5	6.5
16	M. Babău, V. Micle, G. E. Damian, **Simona Varvara,** Health risk assessment analysis in two highly polluted mining areas from Zlatna (Romania), **Journal of Environmental Protection and Ecology** 18(4), 2017, pp. 1416-1424 WOS:000423283800014	NU	4	0.507	0.126
17	R. Bostan, M. Popa, **Simona Varvara***, Consideration regarding the removal of ammonium from wastewaters using natural zeolite from Rupea-Brasov (Romania), **Journal of Environmental Protection and Ecology** 18(4), 2017, pp. 1372-1379 WOS:000423283800008	DA	3	0.507	0.507
18	N. Cotolan, **Simona Varvara**, E. Albert, G. Szabó, Z. Hórvölgyi, L.M. Mureşan, Evaluation of corrosion inhibition performance of silica sol-gel layers deposited on galvanised steel, **Corrosion Engineering Science and Technology** 51(5) 2016, pp. 373-382 https://doi.org/10.1080/1478422X.2015.1120404	NU	6	1.5	0.250
19	M. Popa, R. Bostan, **Simona Varvara***, M. Moldovan, C. Roșu*, Removal of Fe, Zn and Mn ions from acidic mine drainage, using hydroxyapatite, **Journal of Environmental Protection and Ecology** 17(4), 2016, pp. 1472-1480 WOS:000393355100024	DA	5	0.507	0.507
20	I. Rotaru, **Simona Varvara***, Liana Maria Mureșan, Inhibition effect of some thiadiazole derivatives on bronze corrosion, **Studia Universitatis Babeș-Bolyai Chemia** 60(3), 2015, pp. 129-140	DA	3	0.5	0.5

	WOS:000369162200012				
21	M. Popa, R. Bostan, N. Ilie, **Simona Varvara***, Natural sorbents used for the removal of heavy metals from acidic wastewaters generated at 'Valea Seşei' tailing pond from Roşia Poeni mining perimeter (Romania), **Journal of Environmental Protection and Ecology** 16 (3), 2015, pp. 839-849 WOS:000363091800004	DA	4	0.507	0.507
22	I. Rotaru, **Simona Varvara**, L. Găină, L.M. Mureşan, Antibacterial drugs as corrosion inhibitors for bronze surfaces in acidic solutions, **Applied Surface Science** 321, 2014, pp. 188-196 https://doi.org/10.1016/j.apsusc.2014.09.201	NU	4	6.3	1.575
23	**Simona Varvara***, R. Bostan, L. Gainã, L. M. Mureşan, Thiadiazole derivatives as inhibitors for acidic media corrosion of artificially patinated bronze, **Materials and Corrosion-Werkstoffe und Korrosion** 65(12), 2014, pp. 1202-1214 https://doi.org/10.1002/maco.201307072	DA NP10 > 1	4	1.6	1.6
24	D. Popa, **Simona Varvara**, T. Botezan, M. Popa, Study of the effect of highways construction on the air quality, **Journal of Environmental Protection and Ecology** 15(1), 2014, pp.7-15 WOS:000334131100002	NU	4	0.507	0.126
25	M. Popa, D. Vinţan, R. Bostan, **Simona Varvara**, Study on the possibilities of treating the wastewater from the porcelain industry, **Journal of Environmental Protection and Ecology** 15(3) 2014, pp. 851-859 WOS:000342876200006	NU	4	0.507	0.126
26	R. Bostan, **Simona Varvara**, M. Popa, L. M. Mureşan, Evaluation of phenothiazine as environmentally friendly corrosion inhibitor for bronze in synthetic acid rain, **Studia Universitatis Babeş-Bolyai Chemia** 58(3) 2013, pp.53-62 WOS:000342728300007	NU	4	0.5	0.125

27	I. Milosev, D. Blejan, **Simona Varvara**, L.M. Mureşan, Effect of anodic oxidation on the corrosion behavior of Ti-based materials in simulated physiological solution, **Journal of Applied Electrochemistry** 43(7), 2013, pp.645-658 https://doi.org/10.1007/s10800-013-0552-3	NU	4	2.4	0.6
28	**Simona Varvara**, M. Popa, R. Bostan, G. Damian, Preliminary considerations on the adsorption of heavy metals from acidic mine drainage using natural zeolite, **Journal of Environmental Protection and Ecology** 14 (4) 2013, pp.1506-1514 WOS:000336189800005	DA	4	0.507	0.507
29	R. Bostan, **Simona Varvara***, L. Găină, L. M. Mureşan, Evaluation of some phenothiazine derivatives as corrosion inhibitors for bronze in weakly acidic solution, **Corrosion Science** 63, 2012, pp. 275-286 https://doi.org/10.1016/j.corsci.2012.06.010	DA NP11 > 1	4	7.4	7.4
30	M. Popa, M. Glevitzky, D. Popa, **Simona Varvara**, G.-A. Dumitrel, Study on soil pollution with heavy metals near the river Ampoi, Alba County, **Journal of Environmental Protection and Ecology** 13(4), 2012, pp. 2123-2129 WOS:000313926400008	NU	5	0.507	0.101
31	I. Zamblau, **Simona Varvara**, L. M. Muresan, Corrosion behavior of Cu-SiO_2 nanocomposite coatings obtained by electrodeposition in the presence of cetyl trimethyl ammonium bromide, **Journal of Materials Science** 46(20), 2011, pp. 6484-6490 https://doi.org/10.1007/s10853-011-5594-5	NU	3	3.5	1.166
32	**Simona Varvara***, I. Rotaru, M. Pop, L. M. Mureşan, Inhibition of bronze corrosion in aerated acidic solution using amino acids as environmentally friendly inhibitors, **Revue Roumaine de Chimie** 56(8), 2011, pp.793-801 WOS:000298315300005	DA	4	0.4	0.4

33	M. Glevitzky, M. Vica, M. Popa, R. Axinte, **Simona Varvara,** Considerations regarding the quality and chemical stability of near water drinks, **Journal of Environmental Protection and Ecology** 12(3), 2011, pp. 1110-1115 WOS:000296305700038	NU	5	0.507	0.101
34	A. Vlasa, **Simona Varvara**, A. Pop, L. M. Mureşan, Electrodeposited Zn-TiO_2 nanocomposite coatings and their corrosion behavior, **Journal of Applied Electrochemistry** 40(8), 2010, pp. 1519-1527 https://doi.org/10.1007/s10800-010-0130-x	NU	4	2.4	0.6
35	M Popa, R. Axinte, **Simona Varvara**, Considerations regarding the quality of honey on heating and storage-changes in hydroxymethylfurfuraldehyde content of the honey from Transylvania (Romania), **Journal of Environmental Protection and Ecology** 11(2), 2010, pp. 555-561 WOS:000279705200018	NU	3	0.507	0.169
36	A. Pop, A. Vlasa, **Simona Varvara**, B. David, C. Bulea, L. Muresan, Structural and electrochemical characterization of Zn-TiO_2 nanocomposite coatings electrodeposited on steel, **Optoelectronics and Advanced Materials-Rapid Communications** 2009, 3(12), pp. 1290-1294 WOS:000273207300009	NU	6	0.5	0.083
37	I. Zamblau, **Simona Varvara**, C. Bulea, L. M. Mureşan, Corrosion behavior of composite coatings obtained by electrolytic codeposition of copper with Al_2O_3 nanoparticles, **Chemical and Biochemical Engineering Quarterly** 23(1), 2009, pp. 43-52 WOS:000265282300005	NU	4	1.6	0.4
38	M. Popa, M. Miclea, **Simona Varvara**, The present demands of food quality and the promotion of food safety, **Journal of Environmental Protection and Ecology** 10(4), 2009, pp. 999-1005	NU	3	0.507	0.169

	WOS:000273955600010				
39	M. Popa, M. Vica, R. Axinte, M. Glevizky, **Simona Varvara,** Correlations on the microbiological and physicochemical characteristics of different types of honey, **Journal of Environmental Protection and Ecology** 10(4), 2009, pp. 1113-1121 WOS:000273955600022	NU	5	0.507	0.101
40	**Simona Varvara**, M. Popa, G. Rustoiu, R. Axinte, L. M. Mureşan, Evaluation of some amino acids as bronze corrosion inhibitors in aqueous solution, **Studia Universitatis Babeş-Bolyai Chemia**, 54(2), 2009, pp. 73-104. WOS:000271616800008	DA	5	0.5	0.5
41	**Simona Varvara**, M. Popa, L. M. Mureşan, Corrosion inhibition of bronze by amino acids in aqueous acidic solutions, **Studia Universitatis Babeş-Bolyai Chemia**, 54(3), 2009, pp. 235-246 WOS:000274873800025	DA	3	0.5	0.5
42	**Simona Varvara**, L. Mureşan, K. Rahmouni, H. Takenouti, Evaluation of some non-toxic thiadiazole derivatives as bronze corrosion inhibitors in aqueous solution, **Corrosion Science** 50(9), 2008, pp. 2596-2604 https://doi.org/10.1016/j.corsci.2008.06.046	DA NP12 > 1	4	7.4	7.4
43	M. Popa, D. Popa, **Simona Varvara**, Aspects of greenhouse gas emissions in the Alba County (Romania), **Journal of Environmental Protection and Ecology** 9(4), 2008, pp. 37-742 WOS:000263036700002	NU	3	0.507	0.169
44	L. Mureşan, **Simona Varvara**, E. Stupnišek-Lisac, H. Otmačić, K. Marušić, S. Horvat-Kurbegović, L. Robbiola, K. Rahmouni, H. Takenouti*, Protection of bronze covered with patina by innoxious organic substances, **Electrochimica Acta** 57(27), 2007, pp. 7770-7779	NU	9	5.5	0.611

	https://doi.org/10.1016/j.electacta.2007.02.024				
45	L. Muresan, M. Gherman, I. Zamblau, **Simona Varvara**, C. Bulea, Corrosion behavior of electrochemically deposited Zn-TiO_2 nanocomposite coatings, **Studia Universitatis Babeş-Bolyai Chemia** 52(3), 2007, pp. 97-104 WOS:000257689400008	NU	5	0.5	0.100
46	A. Vlasa, **Simona Varvara**, L. Mureşan, Electrochemical investigation of the influence of two thiadiazole derivatives on the patina of an archaeological bronze artefact using a carbon paste electrode, **Studia Universitatis Babeş-Bolyai Chemia** 52(2), 2007, pp. 63-71 WOS:000257689100009	NU	3	0.5	0.166
47	**Simona Varvara**, L. Muresan, I. C. Popescu, G. Maurin, Comparative study of copper electrodeposition from sulphate acidic electrolytes in the presence of IT-85 and of its components, **Journal of Applied Electrochemistry** 35(1), 2005, pp. 69-76 https://doi.org/10.1007/s10800-004-2398-1	DA NP13> 1	4	2.4	2.4
48	**Simona Varvara**, L. Mureşan, I. C. Popescu, G. Maurin, *C*opper electrodeposition from sulfate electrolytes in the presence of hydroxyethylated 2-butyne-1, 4-diol, **Hydrometallurgy** 75(1-4), 2004, pp. 147-156 https://doi.org/10.1016/j.hydromet.2004.07.006	DA NP14 > 1	4	4.8	4.8
49	**Simona Varvara**, L. Mureşan, I. C. Popescu, G. Maurin, Kinetics of copper electrodeposition in the presence of triethyl-benzyl ammonium chloride, **Journal of Applied Electrochemistry, 2003**, 33 (8), pp.685-692 https://doi.org/10.1023/A:1025069004355	DA NP15 > 1	4	2.4	2.4
50	M. Cristea, **Simona Varvara**, L. Muresan, I. C. Popescu, Neural networks approach for simulation of electrochemical impedance diagrams, **Indian Journal of Chemistry Section A-**	NU	4	0.4	0.100

	Inorganic Bio-Inorganic Physical Theoretical & Analytical Chemistry 42(4), 2003, pp. 764-768 WOS:000182588600010				
51	**Simona Varvara**, L. Mureşan, A. Nicoară, G. Maurin, I. C. Popescu, Kinetic and morphological investigation of copper electrodeposition from sulfate electrolytes in the presence of an additive based on ehoxyacetic alcohol and triethyl-benzyl-ammonium chloride, **Materials Chemistry and Physics** 72(3), 2001, pp. 332-336 https://doi.org/10.1016/S0254-0584(01)00326-1	DA NP16 > 1	5	4.3	4.3
52	L. Mureşan, **Simona Varvara**, G. Maurin, S. Dorneanu, The effect of some organic additives upon copper electrowinning from sulphate electrolytes, **Hydrometallurgy** 54(2-3), 2000, pp. 161-169 https://doi.org/10.1016/S0304-386X(99)00063-8	NU	4	4.8	1.2
53	L. Mureşan, A. Nicoara, **Simona Varvara**, G. Maurin, Influence of Zn^{2+} ions on copper electrowinning from sulphate electrolytes, **Journal of Applied Electrochemistry** 29(6), 1999, pp. 719-727 WOS:000081034200007	NU	4	2.4	0.600

**NP > 1 – numar de publicații în reviste cu factor de impact (FI) mai mare decat 1.

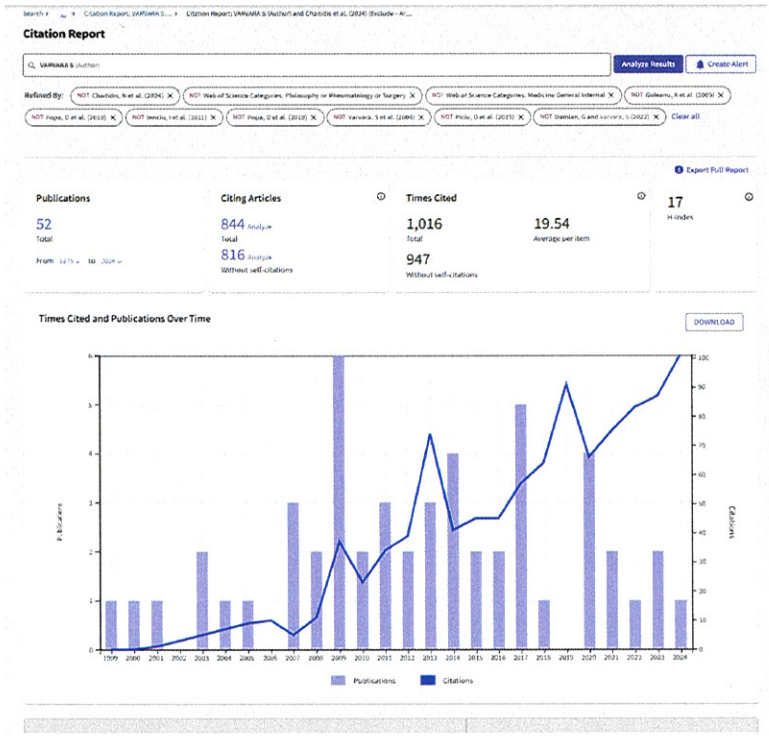
Criterii de evaluare	Standarde minimale cumulative necesare şi obligatorii pentru conferirea titlului de Profesor	Realizat
NT = număr total de articole în reviste ISI	NT ≥ 25	**NT = 53**
NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)	NP ≥ 10, cu minim șase lucrări în reviste cu FI > 1	**NP = 26, cu 16 lucrări în reviste cu FI > 1**
FIC = factor de impact cumulat (suma factorilor de impact ale revistelor la momentul susținerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziții didactice) In acest caz ăn calculul FIC se ține cont de factorul de impact al revistei la care candidatul a publicat un articole ca autor principal si respectiv de factorul de impact împărțit la numarul de autori pentru revistele în care candidatul a publicat un articol în care nu este autor principal	FIC ≥ 20	**FIC = 82.675**
NC = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările	NC ≥ 100	**NC = 951*****

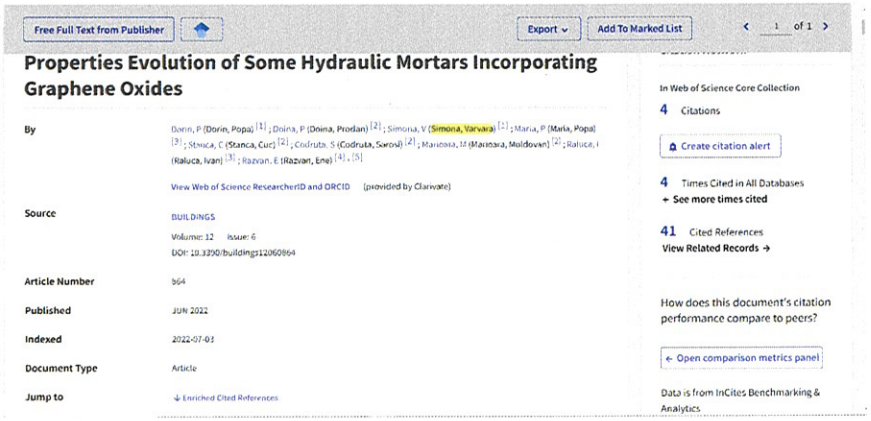
***ISI Web of Science, accesat în data de 02.01.2025

Conf. dr. Varvara Simona Camelia

Alba Iulia, 08.01.2025

NUMĂRUL TOTAL DE CITĂRI AL CELOR 53 DE ARTICOLE DIN BAZA ISI WEB OF SCIENCE, FĂRĂ AUTOCITARI = 947+4 = 951 citări (accesat în data de 02.01.2025)





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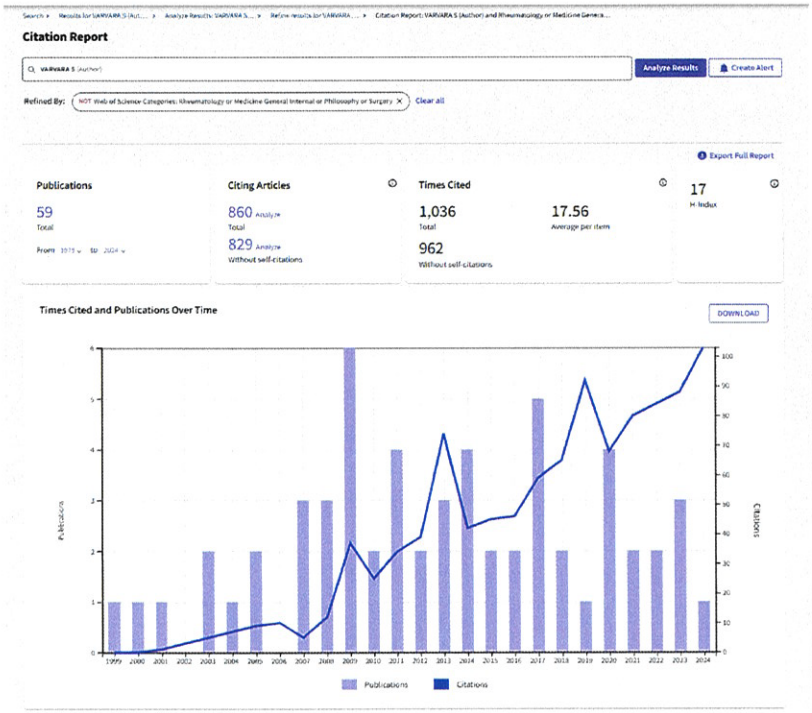
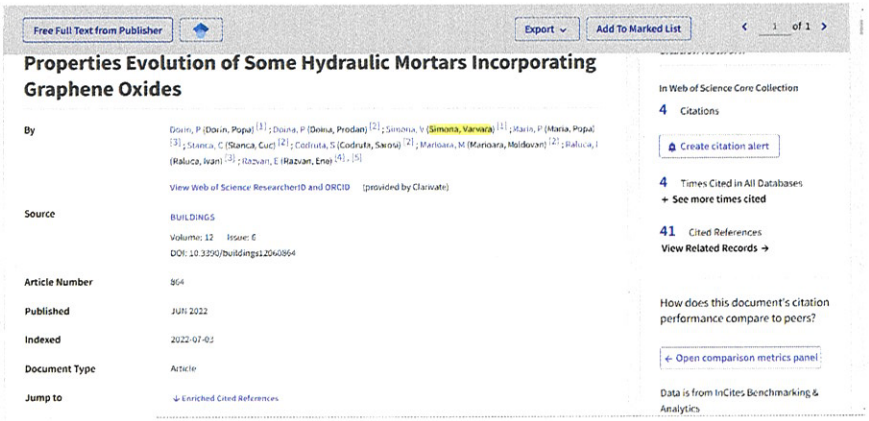
NUMĂR TOTAL DE ARTICOLE PUBLICATE ÎN BAZA ISI WEB OF SCIENCE = 60
NUMĂR TOTAL DE CITĂRI ÎN BAZA ISI WEB OF SCIENCE = 966, fără autocitări (accesat în data de 02.01.2025)
H-index = 17





Alba Iulia, 08.01.2025

Conf. dr. Varvara Simona Camelia