

Nr. crt.	Titlul lucrării	Revista (denumire, volum, număr an, pagini ISSN, WOS nr)	Autorii	Factor de impact al revistei
1	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, ISSN: 0169-4332, vol. 520, art.no.146379, 2020, DOI:10.1016/j.apsusc.2020.146379, WOS:000539640800007	Marinescu G., Culita D.C., Romanitan C., Somacescu S., Ene CD., Marinescu V., Negreanu DG., Maxim C, Popa M., Marutescu L., Stan M. Chifiriuc C.	6.707
2	Surface engineering of Ni-Al coatings through concentrated solar heat treatment	APPLIED SURFACE SCIENCE, ELSEVIER, ISSN 0169-4332, vol. 506, art.no. 144185, WOS:000512983600137	Roata Ionut Claudiu, Croitoru Catalin, Pascu Alexandru, Stanciu Elena Manuela, Hulka Iosif, Petre Ioana, Gabor Camelia, Patroi Delia, Sbarcea Beatrice-Gabriela	6.707
3	Antioxidant activity assisted by modified particle surface in POSS/EPDM hybrids	APPLIED SURFACE SCIENCE, 509, 2020, EISSN:1873-5584, WOS: 000514827600176	Zaharescu T, Blanco I, Bottino FA	6.707
4	Experimental and modeling of cadmium ions removal by chelating resins	JOURNAL OF MOLECULAR LIQUIDS, ISSN:0167-7322, vol.307, art.no. 112973, 2020, DOI:10.1016/j.molliq.2020.112973, WOS:000992678400001	Simonescu CM., Lavric V., Musina A.; Antonescu OM., Culita, DC., Marinescu V., Tardei C., Oprea O., Pandele AM.	6.165
5	Optimization of substrate composition in anaerobic co-digestion of agricultural waste using central composite design	Biomass and Bioenergy, 138, 105602, ISSN 0961-9534, 2020, WOS:000540918400012	Dima Andreea-Daniela; Parvulescu Oana Cristina; Mateescu Carmen; Dobre Tanase	5.800

6	Synthesis, physico-chemical characterization, antimicrobial activity and toxicological features of Ag-ZnO nanoparticles	ARABIAN JOURNAL OF CHEMISTRY, Feb. 2020, Vol. 13, Issue 2, p. 4180-4197, ISSN: 1878-5352, WOS: 000514837800054	L. Burlibaşa, M.C. Chifiriuc, M.V. Lungu, E.M. Lungulescu, S. Mitrea, G. Sbarcea, M. Popa, L. Măruţescu, N. Constantin, C. Bleotu, A. Hermenean	5.165
7	Obituary: Professor Eugen Segal (1933-2013)	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, ISSN 1388-6150, vol.139, nr.5, pp.2947-2948, 2020, WOS:000516407200002, Biografie	Budrugeac Petru	4.626
8	Recent developments in the field of Thermal Analysis and Calorimetry in Romania and Republic of Moldova	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, ISSN 1388-6150, vol.141, nr.3, pp.969-971, 2020, WOS:000557765400001, Editorial	Rotaru Andrei, Vlase Titus, Budrugeac Petru, Petuhov Oleg	4.626
9	Size particle effects on the thermal stability of poly(lactic acid) / hydroxyapatite hybrids for biodegradable package	CERAMICS INTERNATIONAL, 46, 6, 2020, 7288, 7297, EISSN:1873-3956, WOS: 000519661800034	Zaharescu T, Tardei C, Râpa M, Iordoc M	4.527
10	Durability of LDPE/UHMWPE composites under accelerated degradation	POLYMERS, 12, 6, 2020, EISSN:2073-4360, WOS: 000550763800001	Zaharescu T, Râpa M, Blanco I, Borbath T, Borbath I	4.329
11	Phytosynthesis and radiation-assisted methods for obtaining metal nanoparticles	JOURNAL OF MATERIALS SCIENCE 2020 Vol. 55 Issue 5 Pages 1915-1932, eISSN: 1573-4803, WOS: 000501006500003	Fierascu R. C., Fierascu I., Lungulescu E. M., Nicula N., Somoghi R., Ditu L. M., Ungureanu C., Sutan A.N., Draghiceanu O.A., Paunescu A., Soare L.C.	4.220
12	Amplified spontaneous emission (ASE) and laser effects in β -LiYF ₄ : Ce, Tb micro- and nanocrystals	OPTICS AND LASER TECHNOLOGY, ISSN:0030-3992, vol. 126, 2020, DOI:10.1016/j.optlastec.2020.106123, WOS:000523646300005	Pavel E., Marinescu V., Lungulescu M., Sbarcea B.	3.867

13	Microstructure and magnetic anisotropy properties of Pr ₂ Co ₇ films deposited on Al ₂ O ₃ (0001) substrate	VACUUM, PERGAMON-ELSEVIER SCIENCE LTD, ISSN 0042-207X, vol.174, art.no.109168, 2020, WOS:000517661000008	Fersi Riadh, Jabbalah H., Bezerghéanu Adrian, Patroi Delia, Cizmas Corneliu Bazil, Bessais Lotfi, Milki Najeh	3.627
14	Critical study concerning the use of sinusoidal modulated thermogravimetric data for evaluation of activation energy of heterogeneous processes	THERMOCHIMICA ACTA, ISSN 0040-6031, vol. 690, art. no. 178670, 2020, WOS:000568901900037	Budrúgeac Petru	3.120
15	Estimating errors in the determination of activation energy by advanced nonlinear isoconversional method applied for thermoanalytical measurements performed under arbitrary temperature programs	THERMOCHIMICA ACTA, ISSN 0040-6031, vol. 684, art. no. 178507, 2020, WOS:000513989900015	Budrúgeac Petru	3.120
16	interaction, magnetization correlations and random magnetic anisotropy in nanocrystalline Pr ₂ Co ₇ films deposited on Si substrate	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, ELSEVIER, ISSN 0304-8853, vol.494, art.no. 165816, 2020, WOS:000488040000046	Fersi Riadh, Bezerghéanu Adrian, Patroi Delia, Cizmas Corneliu Bazil, Bessais Lotfi, Mliki Najeh Thabet	2.993
17	Stability analysis of PA-6/ethylene elastomer blends for outdoor and nuclear applications	POLYMER BULLETIN, vol. 77, nr.2, 2020, pp. 565-583, ISSN: 0170-0839, WOS: 000513234600003	T. Zaharescu, A.R. Caramitu, V. Marinescu	2.870

18	Availability of PLA/SIS blends for packaging and medical applications	RADIATION PHYSICS AND CHEMISTRY, 172, 2020, WOS: 000541935100002	Luchian-Lupu AM, Zaharescu T, Lungulescu EM, Rapa M, Iovu H	2.858
19	Improving the Energy Conversion Efficiency for Hydrokinetic Turbines Using MPPT Controller	Applied Sciences 2020, 10(21), 7560, pp.1-13, ISSN 2076-3417 DOI:10.3390/app10217560, WOS:000659299700106	Chihaia, R.-A.; Vasile, I.; Cîrciumaru, G.; Nicolaie, S.; Tudor, E.; Dumitru, C.	2.679
20	Development of bionanocomposites based on PLA, collagen and AgNPs and characterization of their stability and in vitro biocompatibility	APPLIED SCIENCES-BASEL, 10, 7, 2020, EISSN:2076-3417, WOS: 000533356200064	Râpa M, Stefan LM, Zaharescu T, Seciu AM, Turcanu AA, Matei E, Predescu AM, Antoniac I, Predescu C	2.679
21	Study on thermal behavior of some biocompatible and biodegradable materials based on plasticized PLA, chitosan, and rosemary ethanolic extract	INTERNATIONAL JOURNAL OF POLYMER SCIENCE, 2020, 2020, EISSN: 1687-9430, WOS: 000556314900001	Vasile C, Tudorachi N, Zaharescu T, Darie-Nita RN, Cheaburu-Yilmaz CN	2.642
22	Graphene nanopatterning by Quantum Optical Lithography	OPTIK, ISSN:0030-4026, vol.203, art.no.163532, 2020, DOI:10.1016/j.ijleo.2019.163532, WOS:000545594000008	Pavel E., Marinescu V., Lungulescu M.,	2.443
23	Correlating the serum albumin corona of zinc oxide nanoparticles with their physico-chemical properties	ROMANIAN REPORTS IN PHYSICS, ISSN 1221-1451, vol. 72, nr.1, art no. 602, 2020, WOS:000519541700015	Stan M. S., Mernea M., Cristian R. E., Mohammad I. J., Sbarcea B. G., Trica B., Dinischiotu A.	1.785

24	Thermal lifetime calculation of capacitor insulation using the activation energy method	IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY, 2020 Vol. 10 Issue 10 Pages 1647-1656, ISSN: 2156-3950, WOS: 000576421400008	Stancu C., Horak M., Notingher P. V., Dusek K., Mach P., Vesely P., Setnescu R., Lungulescu E.M.	1.738
25	Small power electric tractor performance during ploughing works	INMATEH-Agricultural Engineering Vol. 60, No. 1 / 2020 p 123-128, WOS: 000535690100014	Matache M.G., Cristea M., Găgeanu I., Zapciu A., Tudor E., Carpus E.	0.600
26	Gamma radiation synthesis of silver nanoparticles/chitosan composites with antimicrobial properties	MATERIALE PLASTICE 2020 Vol. 57 Issue 4 Pages 88-95, ISSN: 0025-5289, WOS: 000617344900009	Lungulescu E.-M., Setnescu R., Nicula N.-O., Ion I., Marinescu V.	0.593
27	The hydrophily of some lacquers for electrical use	MATERIALE PLASTICE, vol. 57, nr.1, 2020, pp: 122-132 , ISSN 2668-8220, WOS: 000528195000015	M.A. Bors, A.R. Caramitu, D.M. Marin, I. Lingvay	0.593
28	Dielectric behavior of sludge from wastewater treatment	STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, vol. LXV, nr. 4, 2020, pp. 85-93, ISSN: 1224-7154, WOS: 000601368800007.	C. Bartha, A. Caramitu, M. Jipa, D.M. Ignat, A. Tokos.	0.447
29	Fluidic and Thermal Characterization of a Sextupole Magnet for The Storage Ring of the FAIR Project,	Rev. Roum. Sci. Techn.– Électrotechn. et Énerg. Vol. 65, Issue 3–4, pp. 165–172, Bucarest, 2020, Accession Number: WOS:000608261900003	IONEL CHIRIȚĂ, DRAGOȘ OVEZEA, NICOLAE TĂNASE, MARIUS POPA, CRISTINEL ILIE	0.443
30	Improvement of the Performances of Electric Machines With Applications in Aeronautics, Using Special Materials	Rev. Roum. Sci. Techn.– Électrotechn. et Énerg. Vol. 65, Issue 1-2, pp. 41–46, Bucarest, 2020; Accession Number: WOS:000552052900007	CRISTINEL ILIE, NICOLAE TĂNASE, IONEL CHIRIȚĂ, ADRIAN NEDELCU, MIHAI GUȚU	0.443

31	Numerical simulation analysis of a linear magnetostrictive actuator	Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique, 65 (3-4), 2020, pp. 157-164, ISSN 0035-4066, Accession Number WOS:000608261900002, (indexed on: ISI WEB OF SCIENCE, SCOPUS)	Veli, Y., Morega, A.-M., Pislaru-Danescu, L., Morega, M.	0.443
32	Contributions of ecological oxidation protectors in the stability of EPDM-based packaging materials	UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 82, 4, 2020, 85-96, WOS: 000610101300008	Lupu AM, Zaharescu T, Lungulescu EM, Iovu H	0.300
33	Evaluation of the biomethane potential of enzymes-enriched sunflower seeds cake,	Scientific Bulletin Seria B: Chemistry and Materials Sciences, vol. 82(4), 2020, 39-50, ISSN 1454-2331, WOS:000610101300004	Dima Andreea-Daniela; Mateescu Carmen	0.300
Factor cumulat				100.162