

Nr. crt.	Titlul lucrării	Revista (denumire, volum, număr an, pagini ISSN, WOS nr)	Autorii	Factor de impact al revistei
1	Physico-chemical changes induced by gamma irradiation on some structural protein extracts	BIOMOLECULES, 13, 5, 2023, EISSN:2218-273X, WOS:000995604000001	Stanca M, Gaidau C, Zaharescu T, Balan GA, Matei I, Precupas A, Leonties AR, Ionita G	4.800
2	Flexible electromagnetic shielding nano-composites based on silicon and NiFe ₂ O ₄ powders	POLYMERS, vol. 15, nr.11, 2023, pp. 2447, ISSN 2073-4360, WOS:001005724100001	A.R. Caramitu, R.C. Ciobanu, I. Ion, C. Schreiner, M. Aradoaei, V. Tsakiris, J.Pintea, V. Marinescu	4.700
3	Oxy-Butane Ablation Testing of Thermal Protection Systems Based on Nanomodified Phenolic Resin Matrix Materials	POLYMERS, vol. 15, nr. 19, 2023, pp 1-16, ISSN 2073-4360, DOI: 10.3390/polym15194016, ISSN 20734360, WOS:001084224900001	Pelin G., Pelin C.E., Stefan A., Tsakiris V., Panait A.A.M., Costea E.	4.700
4	Special packaging materials from recycled PET and metallic nano-powders	POLYMERS, vol. 15, nr.15, 2023, pp. 3161, ISSN 2073-4360, WOS:001046370500001	R.C. Ciobanu, M. Aradoaei, A.R. Caramitu, I. Ion, C.M. Schreiner, V. Tsakiris, V. Marinescu, E.G. Hitruc, M.C. Aflori	4.700
5	Three-dimensional printable flexible piezoelectric composites with energy harvesting features	POLYMERS, vol. 15, nr.11, 2023, pp. 2548, ISSN 2073-4360, WOS:001006230400000.	M. Aradoaei, R.C. Ciobanu, C. Schreiner, M. Paulet, A.R. Caramitu, J. Pintea, M. Baibarac	4.700
6	Enhancing the mechanical properties of corn starch films for sustainable food packaging by optimizing enzymatic hydrolysis	POLYMERS, MDPI BASEL, ISSN 2073-4360, vol.15, nr.8, art.no.1899, 2023, WOS:000992678400001	Ghizdareanu Andra-Ionela, Banu Alexandra, Pesarin Diana, Ionita (Afilipoaei) Andreea, Nicolae Cristian-Andi, Gabor Augusta Raluca, Patroi Delia	4.700
7	Metal and metal oxide nanoparticle incorporation in polyurethane foams: a solution for future antimicrobial materials?	POLYMERS, 2023 Vol. 15 Issue 23, Pages 4570-4601, EISSN: 2073-4360, WOS:001116640800001	Fierascu R., Lungulescu E.-M., Fierascu I, Stan M. S., Voinea I. C., Dumitrescu S. I.	4.700
8	Novel PEG6000-Silica-MWCNTs shape-stabilized composite phase-change materials (ssCPCMs) for thermal-energy storage	POLYMERS, 15(14), 2023, 23 pagini, ISSN 20734360, WOS: 001038916000001	C. Nistor, I. C. Gifu, E.A. Anghel, R. Ianchis, Raluca, C. D. Cirstea, C. A. Nicolae, A. R. Gabor, I. Atkinson, C. Petcu	4.700

9	Packaging Materials Based on Styrene-Isoprene-Styrene Triblock Copolymer Modified with Graphene	POLYMERS, volume 15, issue 2, 353, 2023, DOI: 10.3390/polym15020353, WOS:000916414200001	Zaharescu T., Banciu C.	4.700
10	Stabilization activity of Kelp extract in ethylene-propylene rubber as safe packaging material	POLYMERS, 15, 4, 2023, EISSN:2073-4360, WOS:000940916900001	Zaharescu T	4.700
11	Structural Insights into LDPE/UHMWPE blends processed by γ -irradiation	POLYMERS, 15, 3, 2023, EISSN:2073-4360, WOS:000929727600001	Zaharescu T, Nicula N, Rapa M, Iordoc M, Tsakiris V, Marinescu V.E.	4.700
12	The contribution of BaTiO ₃ to the stability improvement of ethylene-propylene-diene rubber: Part II-doped filler	POLYMERS 2023, 15(16), 3441, 1-14, ISSN 2073-4360, WOS:001056711300001	Zaharescu T, Dumitru A, Borbath T, Ionescu I, Borbath I, Boros TF	4.700
13	The contribution of BaTiO ₃ to the stability improvement of ethylene-propylene-diene rubber: Part I-pristine filler	POLYMERS, 15, 9, 2023, EISSN:2073-4360, WOS: 000987853900001	Borbath T, Nicula N, Zaharescu T, Borbath I, Boros TF	4.700
14	Three-Dimensional Printable Flexible Piezoelectric Composites with Energy Harvesting Features	POLYMERS, vol. 15(11):2548, 2023, https://doi.org/10.3390/polym15112548	Mihaela Aradoaei, Romeo C Ciobanu, Cristina Schreiner, Marius Paulet, Alina R Caramitu, Jana Pinte, Mihaela Baibarac	4.700
15	Geochemical responses to natural and anthropogenic settings in salt lakes sediments from North-Eastern Romanian Plain	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 20, 2, 2023, 1660-4601, WOS:000918093100001	R.L. Olteanu, C. Radulescu, P. Bretcan, I. Zinicovscaia, O. Culicov, K. Vergel, D. Tanislav, M. Bumbac, C.M. Nicolescu, I.D. Dulama, L.M. Gorghiu	4.614
16	A multi-method approach for impact assessment of some heavy metals on <i>Lactuca sativa</i> L.	MOLECULES, 28, 2, 2023, 1420-3049, WOS:000927100700001	M.-L. Soran, A.N. Sirb, Lung, I.O. Opris, O. Culicov, A. Stegarescu, P. Nekhoroshkov, D.-M. Gligor	4.200
17	The effect of functionalized multiwall carbon nanotubes with Fe and Mn oxides on <i>Lactuca sativa</i> L.	PLANTS-BASEL, 12, 10, 2023, 2223-7747, WOS:000998145700001	D. Podar, C.-L. Boza, I. Lung, M.-L. Soran, O. Culicov, A. Opris, O. Stegarescu, A. Ciorita, P. Nekhoroshkov	4.000
18	Experimental Study of Wheel-to-Rail Interaction Using Acceleration Sensors for Continuous Rail Transport Comfort Evaluation	SENSORS, 2023; 23(19):8064, DOI: 10.3390/s23198064, WOS:001144393700001	Mihăilescu I, Popa G, Tudor Emil*, Vasile I, Gheți MA	3.400

19	Modular Electromagnetic Transducer for Optimized Energy Transfer via Electric and/or Magnetic Fields	SENSORS 2023, no. 3: 1291, pp. 1-26, ISSN: 1424-8220, DOI: 10.3390/s23031291, WOS:000929554100001	Zărnescu George-Claudiu, Lucian Pîslaru-Dănescu, and Athanasios Tiliakos	3.400
20	Correlation of elemental transfer, bioactive compounds and antioxidant activity on Lactuca sativa L. grown in soil with functionalized CNT and HMs	METABOLITES, 13, 12, 2023, 2218-1989, WOS:001132743300001	M.-L. Soran, I. Lung, A. Stegarescu, O. Culicov, O. Opris, P. Nekhoroshkov, D. Podar	3.400
21	CoxCrFeNiTi high-entropy alloys prepared via mechanical alloying and spark plasma sintering for magnetron sputtering coatings	MATERIALS, vol. 16(19), 2023, art. no. 6386, ISSN: 1996-1944, WOS: 001084179800001	Manea CA, Geambazu LE, Tâlpeanu D, Marinescu V, Sbârcea GB, Pătroi D, Udrea RM, Lungu MV, Lucaci M.	3.100
22	Microstructural Characterization of Al0.5CrFeNiTi High Entropy Alloy Produced by Powder Metallurgy Route	MATERIALS, vol. 16, 2023, no. 7038, ISSN: 1996-1944, WOS: 001103322100001	LE Geambazu, D Tâlpeanu, RV Bololoi, CA Manea, AE Bololoi, F Miculescu, D Pătroi, VD Cojocar	3.100
23	Solid-State Processing of CoCrMoNbTi High-Entropy Alloy for Biomedical Applications	MATERIALS, vol. 16, 2023, no. 6520, ISSN: 1996-1944, WOS: 001089169100001	AE Bololoi, LE Geambazu, IV Antoniac, RV Bololoi, CA Manea, VD Cojocar, D Pătroi	3.100
24	Saving energy in the biological wastewater treatment by using extremely low-frequency electric field. Pilot scale study	SUSTAINABILITY, vol.15, nr.15, 2023, pp. 11670, ISSN: 2071-1050, WOS:001046448900001	C. Bartha, A.Tókos, M. Jipa, A. Caramitu, V. Andreea, G. Circiumaru, D-D Micu, I. Lingvay	3.300
25	Correlation between Mechanical Properties—Structural Characteristics and Cavitation Resistance of Rolled Aluminum Alloy Type 5083	METALS, ISSN 2075-4701, vol. 13, nr.6, art.no.1067, 2023, WOS:001017236200001	Istrate Dionisie, Bordeasu Ilare, Ghiban Brandusa, Sbarcea Beatrice Gabriela, Ghera Cristian, Luca Alexandru Nicolae, Odagiu Petrisor Ovidiu, Florea Bogdan, Gubencu Dinu	2.600
26	Effects of dopants and processing parameters on the properties of ZnO-V2O5-based varistors prepared by powder metallurgy: A review	MATERIALS, May 2023, Vol. 16, Issue 10, 3725, ISSN 1996-1944, WOS: 000996590800001	M.V. Lungu	3.100

27	Polymer composites with self-regulating temperature behavior: properties and characterization	MATERIALS, 2023 Vol. 16, Issue 1 Pages 157-177, EISSN: 1996-1944, WOS: 000908725600001	Setnescu R., Lungulescu E.-M., Marinescu V. E.	3.100
28	The 30th anniversary of the commission for thermal analysis and calorimetry of the Romanian academy and 65 years of thermal analysis and calorimetry in Romania,	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, ISSN 1388-6150, vol.148, nr.10, pp. 4567-4572, 2023 WOS:000974881500001	Rotaru Andrei, Budrugaec Petru	3.000
29	Thermal and radiation stability of POSS by the presence of hydrocarbon substituents	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 148, 23, 2023, 12981-12986, EISSN:1588-2926, WOS:001022072500003	Zaharescu T, Blanco I	3.000
30	Algal extracts-The appropriate stabilizers for radiation processed UHMWPE	RADIATION PHYSICS AND CHEMISTRY, 212, 2023, EISSN:1879-0895, WOS: 001026191000001	Zaharescu T	2.800
31	Stabilization efficiency of graphene in γ -irradiated styrene-isoprene-styrene copolymer	RADIATION PHYSICS AND CHEMISTRY, Volume 214, Article Number 111256 Early Access SEP 2023, JAN 2024, DOI: 10.1016/j.radphyschem.2023.111256, WOS:001076291800001	Zaharescu, T, Banciu, C	2.800
32	Synergistic effect of silica nanoparticles assisted by rosemary powder in the stabilization of styrene-isoprene-styrene triblock copolymer	RADIATION PHYSICS AND CHEMISTRY, 206, 2023, EISSN:1879-0895, WOS:000926689700001	Zaharescu T	2.800
33	System for Indoor Comfort and Health Monitoring Tested in Office Buildings Environment	APPLIED SCIENCES, Volume 13, Issue 20, 11360, pp. 1-23, https://doi.org/10.3390/app132011360 , Accession Number: 001090013200001	L.A. El-Leathey, P. Angheliță , A.I. Constantin, G. Cîrciumaru, R.A. Chihaia	2.500

34	Microactuation of Magnetic Nanofluid Enabled by a Pulsatory Rotating Magnetic Field	ACTUATORS 12, no. 5: 210, pp. 1-29, ISSN: 2076-0825, DOI: 10.3390/act12050210, WOS: 000995223000001	Pîslaru-Dănescu Lucian, George-Claudiu Zărnescu, Eros-Alexandru Pătroi, Rareș-Andrei Chihaia, and Gabriela Telipan	2.200
35	HDDR as advanced processing method and recycling technology to address the rare-earth resource criticality in high performance Nd ₂ Fe ₁₄ B magnets production	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, ISSN 0304-8853, vol.574, art.no. 170777, 2023, WOS:001003916100001	Poenaru Iuliana, Patroi, Eros Alexandru, Patroi Delia, Iorga Alexandru, Manta Eugen	2.500
36	Optimization of the Electronic Control Unit of Electric-Powered Agricultural Vehicles	WORLD ELECTRIC VEHICLE JOURNAL, 2023; 14(10):267 DOI: 10.3390/wevj14100267 WOS: 001095456600001	Vasile I, Tudor Emil*, Sburlan I-C, Matache M-G, Cristea M.	2.600
37	Intelligent Jammer on Mobile Network LTE Technology: A Study Case in Bucharest	APPLIED SCIENCES, Volume 13, Issue 22, art.no. 12286, 2023, DOI: 10.1109/ECAI58194.2023.10194110, ISSN 2076-3417, WOS:001119894100001	Capota, Cristian; Popescu Mircea, Popescu, Madalin; Badula, Eduard-Marian;	2.500
38	Slow positrons from a magnetic bottle	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, Volume 1056, 2023, ISSN 0168-9002, WOS:001068227800001	Djourelou, N; Serban, AB; Craciun, LS; Esanu, TR; Dobrin, I; Dumitru, G; Enache, D	1.500
39	The microstructure influence on mechanical properties of Ti ₅₀ Ni ₅₀ -XCu _x materials achieved by spark plasma	ROMANIAN JOURNAL OF PHYSICS, 68, 615 (2023), 11 pagini, ISSN 1221-146X, WOS: 001037991300015	C.D Cirstea, V. Cirstea, V. Marinescu, D. Patroi, T.V. Tiganescu	1.200
40	The Design Of The Power Supply Current Leads To A High-Temperature Superconducting Electromagnet	REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, Volume 68, Issue 4, Page 431-435, 2023, ISSN 0035-4066, WOS:001126934500010	Dumitru, G; Morega, AM; Dobrin, I; Enache, D; Dumitru, C	1.000
41	Stabilization effects of silica nanoparticles in SIS matrix	MACROMOLECULAR SYMPOSIA, 411, 1, 2023, EISSN:1521-3900, WOS: 001085222500022	Zaharescu T, Blanco I, Borbath T, Borbath I	0.913
42	Two roman glass furnaces discovered at Resca-Romula (Romania)	AMERICAN JOURNAL OF ARCHAEOLOGY, UNIV CHICAGO PRESS, ISSN 0002-9114, vol.127, nr.4, pp. 573-584, 2023, WOS:001066749500017	Negru Mircea, Badica Petre, Alexandru-Dinu Andrei, Galatanu Magdalena, Kuncser Andrei, Patroi Delia, Artene Ilinca	0.900

43	Piezoelectric thin film composites with BaTiO ₃ for microelectronics	MATERIALE PLASTICE, vol. 60, nr.4, 2023, pp.10-30, ISSN 2668-8220, WOS:001143872900006.	M. Aradoaei, A.M. Lucaci, R.C. Ciobanu, C.Schreiner, B.G. Rusu, G.E.Hitruc, M. Aflori, M.Paulet, A.R. Caramitu, A.M. Bors	0.600
44	Preparation and spectroscopic characterization of some hybrid composites with electromagnetic shielding properties exposed to different degradation factors	MATERIALE PLASTICE, vol.59, nr. 4, 2023, pp. 82-94, ISSN 2668-8220, WOS:000965030700007.	A.R. Caramitu, I. Ion, A.M. Bors, V. Tsakiris, J. Pinteau, A-M.D. Caramitu	0.600
45	Experimental Research on Reed Harvesting with "ERBA" Electric Boat	INMATEH-Agricultural Engineering, Vol 71, No. 3/2023 DOI: 10.35633/inmateh-71-78, WOS: 001176298700001	V. Ștefan, R. Ciupercă, E. Tudor, L. Popa, M. G. Matache, I. Vasile, I. C. Sburlan; A. Zaica	0.600
46	The Electric Traction Motors Balancing for Load Transfer Effects Compensation	INMATEH Agricultural Engineering, Vol. 71, No. 3, 2023 DOI: 10.35633/inmateh-71-25 WOS: 001137016300003	Andrei, M., Popa, G., Tudor E., Anghelita P., Matache M. G.	0.600
47	Development of ceramic structures with complex shapes based on hydroxyapatite using the technique of casting in plaster molds with possible medical applications	REVISTA ROMANA DE MATERIALE- ROMANIAN JOURNAL OF MATERIALS, Volume 53, Issue 1, Pages 3 – 12, 2023, ISSN-L 1583-3186, wos:000982616600001	Tălpeanu D, Geambazu LE, Dumitru AI, Clicinschi F, Tsakiris V, Cucuș A, Marinescu V	0.400
48	Comparative study of the hydrophobic properties of silicon dioxide particles functionalized with different agents	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume 25, Issue 1-2, Page 89-95, 2023, WOS:000986509900013	Banciu CA, Chitanu E, Malaeru T, Marinescu V, Codescu MM, Georgescu G, Borbath, I	0.600
49	Electric drive system for aquatic biomass harvester, powered by li-ion batteries.	INMATEH-Agricultural Engineering, Vol 69, No. 1/2023 DOI: 10.35633/inmateh-69-58, WOS: 000995706400002	Tudor E., Matache M.-G., Vasile I., Sburlan I.-C., Ștefan V.	0.600
50	High Entropy Alloys With Shielding Properties for Aggressive Media	UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol. 85(2), 2023, pp. 179–184, WOS: 001015437100015	CA Naciu, M Nicolae, CA Manea, LE Geambazu, C Morari	0.300
51	Analyzing Power of Quasi-Elastic Proton-Proton Scattering at the Beam Energy of 550 MeV/Nucleon	PHYSICS OF PARTICLES AND NUCLEI LETTERS, Volume 20, Issue 5, Page 1191-1193, 2023, ISSN 1547-4771, WOS:001142352700022	Volkov, IS; Ladygin, VP; Skhomenko, YT; Gurchin, YV; Isupov, AY; Janek, M; Karachuk, JT; Khrenov, AN; Kurilkin, PK; Livanov, AN; Piyadin, SM; Reznikov, SG; Terekhin, AA; Tishevsky, AV; Averyanov, AV; Chernykh, EV; Enache, D; Krivenkov, DO; Vnukov, IE	0.400

52	Investigation of the radiation resistance and optical properties of new composite thermal barrier coatings	PHYSICS OF PARTICLES AND NUCLEI LETTERS, 20, 5, 2023, pp 1259 – 1262, ISSN 1547-4771, WOS:001156505000005	A. Badalyan, V. Harutyunyan, E. Aleksanyan, N. Grigoryan, A. Arestakyan, V. Arzumanyan, A. Manukyan, V. Baghranyan, A. Sargsyan, O. Culicov	0.400
53	Materiale ceramice compozite pe bază de Si3N4 și SiC	REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol 53, nr 4, 2023, pg. 111-117, ISSN: 1583-3186, WOS:001050510300002	Clicinschi FM, Talpeanu D, Dumitru AI, Tsakiris V, Sbarcea BG, Patroi D, Marinescu VE	0.400
54	Analytical model and numerical finite element model for a submersible synchronous hydrogenerator	Journal Of Science And Arts (JOSA), Section C – Physics, Volume 23, Issue 1, pp. 263-272, 2023, DOI 10.46939/J.Sci.Arts-23.1-c01, ISI indexed ISSN 1844-9581 eISSN 2068-3049, WOS:000967778700021	Dumitru C., Bunea F., Tănase N., Nedelcu A., Mihăiescu G. M.	0.300
55	Deuteron Beam Vector Polarization Measurement Using Proton-Proton Quasielastic Scattering at the Energies of 500 and 650 MeV/nucleon	PHYSICS OF ATOMIC NUCLEI, Volume 86, Issue 6, Page1173-1177, 2023, ISSN 1063-7788, WOS:001171946200064	Volkov, IS; Ladygin, VP; Skhomenko, YT; Gurchin, YV; Isupov, AY; Janek, M; Karachuk, JT; Khrenov, AN; Kurilkin, PK; Livanov, AN; Piyadin, SM; Reznikov, SG; Terekhin, AA; Tishevsky, AV; Averyanov, AV; Chernykh, EV; Enache, D; Krivenkov, DO; Vnukov, IE	0.300
56	Evaluation of the flow induced by different shrouds geometries	Journal of Science and Arts, volum 23, 2023, pp 281-288, ISSN 1844-9581, WOS:000967778700023	Danca P.A., Bunea F., Bode F., Nicolaie S.	0.300
57	Insight into the oxidative degradation of phenolic resin destined for the corrosion protection of metallic surfaces	JOURNAL OF SCIENCE AND ARTS, 4, 2023, 999- 1008, EISSN:2068-3049, WOS:001246896900017	Zaharescu T, Borbath T, Borbath I, Radu M, Mandoc A	0.300
58	Technical and Economic Analysis of Commercial Prosumer 30 KW	JOURNAL OF SCIENCE AND ARTS, vol. 23, Issue 1, pp. 289-306, 2023, DOI10.46939/J.Sci.Arts-23.1-c04	Serban I.T.; Sontea S.; Murgescu I.; Onose B.	0.300
			Factor cumulat	149.527