

Nr. crt.	Titlul lucrării	Revista (denumire, volum, număr an, pagini ISSN, WOS nr)	Autorii	Factor de impact al revistei
1	Biodegradable Mg alloys for orthopedic implants – A review	JOURNAL OF MAGNESIUM AND ALLOYS, vol. 9, nr. 6, Page 1884-1905, 2021, ISSN 2213-9567, DOI 10.1016/j.jma.2021.06.024, WOS:000748427000004	V. Tsakiris, C. Tardei, F.M. Clicinschi	11.862
2	Hydrothermal growth of ZnO/GO hybrid as an efficient electrode material for supercapacitor applications	Scripta Materialia, 2021, 195, 113708, Print ISSN: 1359-6462, https://doi.org/10.1016/j.scriptamat.2020.113708 , WOS:000618909800003	Paraschiv, C., Hristea, G., Iordoc, M., Sbarcea, B.-G., Marinescu, V.	6.302
3	Fe-N Co-doped titanium dioxide nanoparticles induce cell death in human lung fibroblasts in a p53-independent manner.	International Journal of Molecular Sciences, 22 (17), 9627-9651, DOI:10.3390/ijms22179627, WOS:000694307300001	Nica I.C., Stan M.S., Popescu R.G., Nicula N., Ducu R., Diamandescu L., Dinischiotu A.	6.208
4	New insights into the cell death signaling pathways triggered by long-term exposure to Silicon-based quantum dots in human lung fibroblasts	NANOMATERIALS, eISSN 2079-4991, vol.11, nr. 2, art. no. 323, 2021, WOS:000622955000001	Stan Miruna S., Badea Smaranda, Hermenean Anca, Herman Hildegard, Trica Bogdan, Sbarcea Beatrice G., Dinischiotu Anca	5.719
5	The effect of TiO2 nanoparticles on the composition and ultrastructure of wheat	NANOMATERIALS, 11, 12, 2021, 2079-4991, WOS:000736744000001	M.-L. Soran, I. Lung, O. Opris, O. Culicov, A. Ciorita, A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi	5.719

6	High-efficiency biocidal solution based on radiochemically synthesized Cu-Au alloy nanoparticles	NANOMATERIALS 2021 Vol. 11 Issue 12 Pages 3388, EISSN: 2079-4991, WOS:000736306500001	Lungulescu E.-M., Setnescu R., Pătroi E. A., Lungu M. V., Pătroi D., Ion I., Fierascu R.C., Somoghi R., M. Stan., Nicula N.O.	5.719
7	Spatial distribution of multielements including lanthanides in sediments of Iron Gate I Reservoir in the Danube River	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 28-33, 2021, 44877-44889, 1614-7499, WOS:000639770100002	O.A. Culicov, T. Trtić-Petrović, R. Balvanović, A. Petkovic, S. Razic	5.190
8	Stabilization effects of natural compounds and polyhedral oligomeric silsesquioxane nanoparticles on the accelerated degradation of ethylene-propylene-diene monomer	MOLECULES, 26, 15, 2021, EISSN:1420-3049, WOS:000682189800001	Zaharescu T, Blanco I	4.972
9	Complementary assessment of -irradiated polyurethane-POSS hybrids by chemiluminescence and differential scanning calorimetry	POLYMER TESTING, 96, 2021, EISSN:1873-2348, WOS:000663792300039	Zaharescu T, Chou YX, Hebda E, Raftopoulos KN, Pielichowski K	4.931
10	The use of thermal analysis methods for predicting the thermal endurance of an epoxy resin used as electrical insulator	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, ISSN 1388-6150, vol. 146, nr. 4, pp. 1791-1801, 2021, WOS:000563610000020	Budrugeac Petru, Cucos Andrei, Dascalu Radu, Paraschiv Carmen, Mitrea Sorina, Sbarcea Beatrice-Gabriela	4.755

11	The impact assessment of CuO nanoparticles on the composition and ultrastructure of Triticum aestivum L.	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 18, 13, 2021, 1660-4601, WOS:000671198900001	I. Lung, O. Opris, M.-L. Soran, O. Culicov, A. Ciorita, A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi, M. Parvu	4.614
12	Experimental Validation of LiDAR Sensors Used in Vehicular Applications by Using a Mobile Platform for Distance and Speed Measurements	Sensors 2021, 21, 8147. https://doi.org/10.3390/s21238147 , WOS: 000735114400001	Vasile I.* , Tudor E.* , Sburlan IC, Gheți M., Popa G.	3.847
13	Low Field Optimization of a Non-Contacting High-Sensitivity GMR-Based DC/AC Current Sensor	SENSORS, Volume21, Issue7, 2564, DOI: 10.3390/s21072564,WOS:00063885500001	Mușuroi Cristian, Mihai Oproiu, Marius Volmer, Jenica Neamtu, Marioara Avram, Elena Helerea	3.842
14	In-depth comparative assessment of different metallic biomaterials in simulated body fluid	MATERIALS, eISSN 1996-1944, vol. 14, nr. 11, art. no. 2774, 2021, WOS:000660279100001	Mirea Radu, Cucuruz Andrei Tiberiu, Ceatra Laurentiu Constantin, Badea Teodor, Biris Iuliana, Popescu Elisa, Paraschiv Alexandru, Ene Razvan, Sbarcea Gabriela, Cretu Mihaiela	3.748
15	New HfNbTaTiZr high-entropy alloy coatings produced by electrospark deposition with high corrosion resistance	MATERIALS, vol. 14(15), 2021, art. no. 4333, ISSN: 1996-1944, WOS: 000682111500001	Manea CA, Sohaciu M, Stefănoiu R, Petrescu MI, Lungu MV, Csaki I.	3.748
16	Nanocarbon type xerogel materials designed for water desalination	Materials, 2021, 14(17), 4932, ISSN: 1996-1944 DOI: 10.3390/ma14174932, WOS:000694322300001	Hristea, G., Iordoc, M., Culcea, A.	3.748
17	Hydraulic Turbine Performance Assessment with Implementation of an Innovative Aeration System	Water 2021, 13(18), 2459; ISSN: 2073-4441, https://doi.org/10.3390/w13182459 WOS:000701547400001	Bunea, F.; Ciocan, G.D.; Bucur, D.M.; Dunca, G.; Nedelcu, A.	3.530

18	On the use of the model-free way method for kinetic analysis of thermoanalytical data - advantages and limitations	THERMOCHIMICA ACTA, ISSN 0040-6031, vol. 706, art. no. 179063, 2021, WOS:000716449100007	Budrugeac Petru	3.378
19	Influence of the physical properties on the antibacterial and photocatalytic behavior of Ag-doped Indium Sulfide film deposited by spray pyrolysis	COATINGS, MDPI BASEL, ISSN 2079-6412, vol.11, nr.4, art.no.370, 2021, WOS:000642934600001	Tiss Belgacem, Moualhi Youssef, Bouguila Nouredine, Kraini Mabrouk, Alaya Sahbi, Croitoru Catalin, Ghiuta Ioana, Cristea Daniel, Patroi Delia, Moura Cacilda, Cunha Luis	3.236
20	Advanced hybrid membranes for efficient nickel retention from simulated wastewater	POLYMER INTERNATIONAL, WILEY, ISSN 0959-8103, vol.70, nr.6, pp.866-876, 2021, WOS:000612614500001	Sandu Teodor, Chiriac Anita Laura, Tsyntsarski Boyko, Stoycheva Ivanka, Caprarescu Simona, Damian Celina Maria, Iordache Tana Verona, Patroi Delia, Marinescu Virgil, Sarbu Andrei	3.213
21	Two- component polymer beads with magnetic features as efficient means for active principles binding	JOURNAL OF POLYMER RESEARCH, SPRINGER, ISSN 1022-9760, vol.28, nr.8, art.no.27, 2021, WOS:000669212600001	Sandu Teodor, Mitran, Raul-Augustin, Sarbu Andrei, Stanica Nicolae, Gavrilă Ana Mihaela, Patroi Delia, Marinescu Virgil, Petcu Cristian, Ghiurea Marius, Dumitru Marinela Victoria, Iordache Tana Verona	3.061
22	Kinetic analysis on the stabilization effects of substituted POSS powders embedded in γ -radiolyzed polypropylene	JOURNAL OF COMPOSITES SCIENCE, 5, 5, 2021, WOS:000656501600001	Zaharescu T, Blanco I, Borbath T, Borbath I, Maris M	3.000

23	A Comparative Study of Polypyrrole and Ag/Polypyrrole Hybrid Nanocomposites as Sensitive Material Used for New Dry Polarizable Bioimpedance Sensors	Applied Sciences 11, no. 9: 4168. pp. 1-21, 2021, ISSN: 2076-3417, DOI: 10.3390/app11094168, WOS:000649953300001	Telipan Gabriela, Lucian Pîslaru-Dănescu, Eduard-Marius Lungulescu, Ioana Ion, and Virgil Marinescu	2.838
24	Chemiluminescence study on the radiochemical stability of polypropylene modified with microalgal extracts	Radiation Physics and Chemistry, 183, 109401, 2021, ISSN 0969-806X, WOS:000647558900002	Mateescu, Carmen; Zaharescu, Traian; Mariș, Marius	2.776
25	Influence of gamma irradiation on the biological properties of Asplenium scolopendrium L. hydroalcoholic extracts	RADIATION PHYSICS AND CHEMISTRY, 2021 Vol. 181 Pages 109175, ISSN: 0969-806X, WOS:000618757400001	Fierascu I., Ditu L.M. Sutan A., Drăghiceanu N., Fierascu R., Avramescu S., Lungulescu E.M., Nicula N., Soare L.C.	2.776
26	In vitro physical-chemical behaviour assessment of 3D-printed CoCrMo alloy for orthopaedic implants	METALS, eISSN 2075-4701, vol. 11, nr.6, art no. 857, 2021, WOS:000666941500001	Mirea Radu, Biris Iuliana Manuela, Ceatra Laurentiu Constantin, Ene Razvan, Paraschiv Alexandru, Cucuruz Andrei Tiberiu, Sbarcea Gabriela, Popescu Elisa, Badea Teodor	2.695
27	Study on highly thermostable low-k polymer films based on fluorene-containing polyetherimides	POLYMER ENGINEERING AND SCIENCE, vol. 61, nr. 10, pp. 2639-2652, 2021, ISSN 0032-3888, eISSN 1548-2634, DOI 10.1002/pen.25792, WOS:000690693400001	M.A. Olariu, C. Hamciuc, M. Asandulesa, E. Hamciuc, E.-L. Epure, V. Tsakiris, G. Lisa	2.573
28	New Type of Linear Magnetostrictive Motor Designed for Outer Space Applications, from Concept to End-Product	Actuators 10, no. 10: 266 , pp. 1-23, 2021,ISSN: 2076-0825, DOI: 10.3390/act10100266, WOS: 000716028400001	Pîslaru-Dănescu Lucian, Alexandru-Mihail Morega, Rareș-Andrei Chihaia, Ionel Popescu, Mihaela Morega, Lică Flore, Marius Popa, and Eros-Alexandru Pătroi	2.523

29	Experimental investigation of thermal vehicular environment during the summer season	Science and tehnology for the built environment, volum 28, an 2021, pagini 42-54, ISSN 2374-4731, WOS:000643844600001	Danca P., Bode F., Meslem A., Croitoru C., Sandu M., Nastase I., Lungu C., Batali L.	2.094
30	Thermal characterization of kaolinitic clay	ROMANIAN JOURNAL OF PHYSICS, ISSN 1221-146X, vol. 66, nr. 1-2, art.no. 904, 2021, WOS:000626521600012	Deju R., Cucos Andrei, Mincu M., Tuca C.	1.662
31	Studies about structural and thermal investigations on Ti50Ni30Cu20 alloys obtained by different technological processes	ROMANIAN JOURNAL OF PHYSICS, Volume 66, (601), Number 3-4, 2021, ISSN 1221-146X, WOS: 000820422700005	C. D. Cirstea, M. Lucaci, M. Valeanu, M. Sofronie, L.G. Bujoreanu, M.V. Lungu, V. Tsakiris, A. Cucos, D. Talpeanu, E. Enescu	1.662
32	Advanced high strength steel (AHSS) alloys processed by powder metallurgy techniques	ROMANIAN JOURNAL OF PHYSICS, Volume 66, Issue 1-2, 2021, Article number 903, WOS:000626521600001	Iorga A., Lucaci M., Lungu M., Vasile E., Straticiu M., Burducea I., Marinescu V., Talpeanu D., Sbarcea G., Stancu N., Manta E., Marin M., Cirstea D., Ion I.	1.662
33	Kinetics of the non-isothermal degradation of POSS/EPDM hybrids composites	MACROMOLECULAR SYMPOSIA, 395, 1, 2021, EISSN:1521-3900, WOS:000620698500006	Zaharescu T, Catauro M, Blanco I	0.913
34	Stability effect of metallic traces in the degradation of materials	MACROMOLECULAR SYMPOSIA, 395, 1, 2021, EISSN:1521-3900, WOS:000620698500004	Zaharescu T, Borbath T, Blanco I, Borbath I	0.913
35	Obtaining and characterizing 3D printable polymer based composites with BaTiO3 filler	MATERIALE PLASTICE, vol. 58, nr. 1, 2021, pp. 11-18, ISSN 2668-8220, WOS: 000637398100002	A.R. Caramitu, R. Dascalu, I. Ion, V. Tsakiris, N. Stancu, M. Aradoaei, R. Ciobanu, A.M. Bors, I. Lingvay	0.782
36	Obtaining and preliminary characterization of some polyethylene composites with nickel-silver ferrite filler	MATERIALE PLASTICE, vol. 58, nr. 3, 2021, pp. 186-197, ISSN 2668-8220, WOS: 000756839200003.	A.R. Caramitu, R. Dascalu, I. Ion, A. Voina, I. Lingvay	0.782

37	Processing, microstructure and magnetic properties of alnico ribbons	Rev. Roum. Sci. Techn.– Électrotechn. et Énerg. Vol. 66, 1, pp. 3–7, Bucarest, 2021, ISSN: 0035-4066	Eugen Manta, Eros Pătroi, Delia Patroi, Alexandru Iorga, Gabriela Sbarcea, Andreea Petre	0.670
38	Study on porous hydroxyapatite based ceramic materials as bone substitutes for cranioplasty	Revista Romana de Materiale/ Romanian Journal of Materials, 2021, Volume 51 (2), pp. 178–185, 2021, ISSN-L 1583-3186, WOS:000657773500005	Tălpeanu D, Lungu MV, Cojocaru A, Pătroi D, Marinescu VE	0.628
39	Influence of the Zr ⁴⁺ /Ti ⁴⁺ ratio on the properties of the 0.98Pb(Zr _{1-x} Ti _x)O ₃ – 0.02La(Fe _{3+0.5} , Nb _{5+0.5})O ₃ Compositions	Revista Română de Materiale/ Romanian Journal of Materials, 2021, 51 (2), pp. 161-168, ISSN: 1583-3186, WOS:000657773500003	Al Dumitru, G Velciu, D Pătroi, J Pinte, TG Dumitru, I Peter	0.628
40	Investigation of Phase Formation and Electrical Properties of Fe-Doped PZT for Advanced Applications	Revista Română de Materiale/ Romanian Journal of Materials, 2021, 51 (3), pp. 335-341, ISSN: 1583-3186, WOS:000700970100002	Al Dumitru, G Velciu, D Pătroi, J Pinte, V Marinescu, TG Dumitru, I Peter	0.628
41	Experimental assessment of the influence of transitional metal doping on carbonic materials regarding their hydrogen storage capacity Evaluarea experimentală a influenței dopării materialelor carbonice cu metale tranziționale în privința capacității lor de stocare a hidrogenului	Revista Romana de Materiale/ Romanian Journal of Materials, 2021, 51(2), pp. 151–160, WOS:000657773500002	Mirea, R., Rîmbu, G., Iordoc, M., Cucuruz, A.T,	0.628
42	The influence of deposition parameters on structural, optical and electrical properties of AZO thin film	Journal of Optoelectronics and Advanced Materials, Vol. 23, Nr. 5-6, 2021, p. 270 - 274, Mai – Iunie 2021, ISSN (Print): 1454 - 4164 WOS:000685474100010	Chitanu E	0.500

43	Freestanding graphene networks	Journal of Optoelectronics and Advanced Materials, ISSN 1454-4164, vol. 23, no. 3-4, pp. 173-182, 2021, WOS:000664792900012	C. A. Banciu, D. Patroi, E. M. Lungulescu, B. G. Sbarcea, V. E. Marinescu	0.500
44	Influence of gamma-ray irradiation on the biomethane production of sunflower seed cake	Scientific Bulletin Series B-Chemistry and Materials Science, 83(1), 2021, 59-72, ISSN 1454-2331, WOS:000627764100006	Dima, Andreea-Daniela; Mateescu, Carmen; Parvulescu, Oana Cristina; Lungulescu, Eduard Marius	0.350
45	Experimental validation of combined trip estimator for small power electric tractor	INMATEH-Agricultural Engineering Vol. 64, No. 2 / 2021 p 99-108 WOS: 000709094600009	Tudor, E.; Matache, M. G.; Sburlan, I. C.; Vasile, I.; Cristea M.	0.140
46	Synthesis of TiO ₂ /GF-Ni hybrid materials by a combined chemical vapor deposition/RF magnetron sputtering approach	University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, Volume 83, Issue 4, pp. 65-74, 2021, ISSN: 1454-2331, WOS:000731356100006	Mihai E. M., Istrate A. I., Seviionescu O. G., Banciu C., Romanitan C., Comanescu F., Banu A., Veca L. M.	0.070
47	DESIGN OF A PULSED CRYOMAGNET GENERATING 5T PEAK MAGNETIC FLUX DENSITY	UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES C-ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, Volume 83, Issue 2, Page 171-186, 2021, ISSN 2286-3540, WOS:000692193500014	Dobrin, I; Enache, D; Dumitru, G; Dobrin, A; Pinte, R; Zamfir, S	0.060
48	Planar transformer for energy harvesting applications	UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science, 83 (4), 2021, pp. 293-300, Published 2021, ISSN 2286-3540, eISSN 2286-3559, Accession Number WOS:000741473700024, (indexed on: ISI WEB OF SCIENCE, SCOPUS),	Veli, Y., Morega, A.M., Pîslaru-Dănescu, L., Morega, M.	0.060
			Factor cumulat	135.855