

Nr. crt.	Titlul lucrării	Revista (denumire, volum, număr an, pagini ISSN, WOS nr)	Autorii	Factor de impact al revistei
1	Benign by design: porous spherical ZnO-alginate family via a dual-template synthesis	APPLIED SURFACE SCIENCE, ISSN 0169-4332, vol. 580, art.no. 152231, 2022, WOS:000736662300004	Ene Cristian D., Cucos Paula, Ianculescu Adelina, Culita Daniela C., Anghel Elena Maria, Cucos Andrei, Atkinson Irina, Chifiriuc Mariana Carmen, Calderon-Moreno Jose Maria, Carp Oana	6.700
2	Zn based hydroxyapatite based coatings deposited on a novel FeMoTaTiZr high entropy alloy used for bone implants	Surfaces and Interfaces, 2022, 28, 101591, ISSN / eISSN: 2468-0230; https://doi.org/10.1016/j.surfin.2021.101591 , WOS:000764258400004	M. M. Codescu, A. Vlădescu, V. Geantă, I. Voiculescu, I. Pană, M. Dinu, A. E. Kiss, V. Braic, D. Pătroi, V. E. Marinescu, M. Iordoc	6.200
3	Influence of processing route on microstructure and properties of Al13.45FeCrNiCo high entropy alloys	JOURNAL OF ALLOYS AND COMPOUNDS, ISSN 0925-8388, vol.907, art.no.164457, 2022, WOS:000779647100001	E. Manta, M. Lucaci, E. Vasile, M.V. Lungu, D. Tălpeanu, N. Stancu, A. Iorga	6.200
4	Self-Sustained Three-Dimensional Macroporous TiO ₂ -Graphene Photocatalyst for Sunlight Decolorization of Methyl Orange	NANOMATERIALS, Volume 12, Issue 24, Article Number 4393, 2022, eISSN: 2079-4991, https://doi.org/10.3390/nano12244393 , WOS:000904573200001	Mihai E. M., Mihalache I., Istrate A.-I., Banciu C. A., Romanitan C., Brincoveanu O., Tanasa E., Banu A., Veca L. M.	5.300
5	A regard on the thermal comfort theories from the standpoint of Electric Vehicle design - Review and perspectives	ENERGY REPORTS, volum 8, anul 2022, pagini 10501-10517, ISSN 2352-4847, WOS:000861226700015	Nastase I., Danca P., Bode F., Croitoru C., Fehete L., Sandu M., Cosoiu C.I.	4.700
6	Experimental and numerical study of the flow dynamics and thermal behavior inside a car cabin: Innovative air diffusers and human body plumes interactions	ENERGY REPORTS, volum 8, anul 2022, pagini 992-1002, ISSN 2352-4847, WOS:000841651400047	Danca P., Jamin A., Nastase I., Janssens B., Bosschaerts W., Cosoiu C.	4.700
7	Experimental study of an innovative perforated air diffuser at real scale conditions	ENERGY REPORTS, volum 8, anul 2022, pagini 1479-1490, ISSN 2352-4847, WOS:000865783500008	Bode F.I., Dogeanu A., Tacutu L., Nastase I., Danca PA., Ene A.	4.700
8	Bioactivity and thermal stability of collagen-chitosan containing lemongrass essential oil for potential medical applications	POLYMERS, 14, 18, 2022, EISSN 2073-4360, WOS:000859650600001	Răpa M, Zaharescu T, Stefan LM, Gaidau C, Stanculescu I, Constantinesc RR, Stanca M	5.000
9	Effect of gamma irradiation on the pla-based blends and biocomposites containing rosemary ethanolic extract and chitosan	POLYMERS, 14, 7, 2022, EISSN: 2073-4360, WOS:000780999000001	Vasile C, Pamfil D, Zaharescu T, Dumitriu RP, Pricope GM, Rapa M, Vasilievici G	5.000
10	Investigation on some algal extracts as appropriate stabilizers for radiation-processed polymers	POLYMERS, 14, 22, 2022, EISSN: 2073-4360, WOS:000887801100001	Zaharescu T, Mateescu C	5.000
11	Stability efficiencies of POSS and microalgae extracts on the durability of ethylene-propylene-diene monomer based hybrids	POLYMERS, 14, 1, 2022, EISSN: 2073-4360, WOS:000752206100001	Zaharescu T, Mateescu C	5.000

12	On the use of oxidation induction time as a kinetic parameter for condition monitoring and lifetime evaluation under ionizing radiation environments	POLYMERS, 2022, Vol. 14, Issue 12, Pages 2357-2379, EISSN: 2073-4360, WOS:000819116200001	Lungulescu E.-M., Setnescu R., Ilie S., Taborelli M.	4.900
13	Radiation processing of styrene-isoprene-styrene/poly(ϵ -caprolactone) blends	POLYMERS, 2022, Vol. 14 Issue 21, art. no. 4737, EISSN: 2073-4360, WOS:000881467600001	Lungulescu E.-M., Zaharescu T.	4.900
14	Design and Manufacturing of Equipment for Investigation of Low Frequency Bioimpedance	MICROMACHINES 13, no. 11: 1858, pp. 1-29, 2022, ISSN: 2072-666X, DOI: 10.3390/mi13111858, WOS:000883886600001	Pîslaru-Dănescu Lucian, George-Claudiu Zănescu, Gabriela Telipan, and Victor Stoica	3.400
15	On the geochemistry of the Danube River sediments (Serbian sector)	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 19, 19, 2022, 1660-4601, WOS:000867973200001	A.O. Culicov, T. Trtic-Petrovic, P.S. Nekhoroshkov, I. Zinicovscaia, O.G. Dului	4.614
16	3D Graphene Foam by Chemical Vapor Deposition: Synthesis, Properties, and Energy-Related Applications	MOLECULES, Volume 27, Issue 11, Article Number 3634, 2022, eISSN: 1420-3049, DOI: 10.3390/molecules27113634, WOS:000808782300001	Banciu C. A., Nastase F., Istrate A. I., Veca L. M.	4.600
17	The effect of copper salts on bioactive compounds and ultrastructure of wheat plants	MOLECULES, 17, 15, 2022, 1420-3049, WOS:000839717300001	O. Culicov, A. Stegarescu, M.-L. Soran, I. Lung, O. Opris, A. Ciorita, P. Nekhoroshkov	4.600
18	Evaluation of thermal and radiation stability of EPDM in the presence of some algal powders	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 147, 1, 2022, 327-336, EISSN:1588-2926, WOS:000582768500001	Zaharescu T, Mateescu C, Dima A, Varca GHC	4.400
19	Fructose-derived hydrochar: combustion thermochemistry and kinetics assessments	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, ISSN 1388-6150, vol. 147, nr. 22, pp. 12805-12814, 2022, WOS:000827947500002	Musuc Adina Magdalena, Patrinoiu Greta, Budrugaec Petru, Cucos Andrei, Dascalu Radu, Calderon-Moreno Jose, Carp Oana	4.400
20	The effect of polyhedral oligomeric silsesquioxanes (POSSs) incorporation in ethylene-propylene-diene-terpolymer (EPDM): A thermal study	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 147, 9, 2022, 5313, 5321, 1588-2926, WOS:000677955600003	Blanco I, Zaharescu T	4.400
21	Thermal and radiation degradation effects on fluoroelastomer destined to gasket applications in nuclear power plants	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 147, 20, 2022, 11139- 11145, EISSN: 1588-2926, WOS:000788989300002	Borbath T, Borbath I, Zaharescu T	4.400
22	Critical analysis of key barriers and challenges to the growth of the biogas sector: a case study for Romania	Biomass Conversion and Biorefinery, 10, 13399, 2022, ISSN 2190-6815, WOS:000578234300001	Mateescu, Carmen; Dima, Andreea-Daniela	4.000
23	Automation and remote control of an aquatic harvester electric vehicle	Sustainability 14, no. 10 (2022): 6360. Doi 10.3390/su14106360 WOS: 000804279000001	Tudor E.*, Matache M.G., Vasile I., Sburlan I. C., Ștefan V.	3.900
24	Experimental Study Regarding Long Range LiDAR Capabilities in Sensing Safety Distance for Vehicle Application	Sensors 2022, 22(15), 5731, DOI: 10.3390/s22155731 WOS: 000839704700001	Popa G., Gheți M., Tudor E.*, Vasile I., Sburlan I.C.	3.900

25	A Sustainable Approach on Spruce Bark Waste Valorization through Hydrothermal Conversion	Processes, 2022, 10(1), 111, ISSN: 2227-9717, https://doi.org/10.3390/pr10010111 , WOS:000749904200001	Bejenari, I., Hristea, G., Cărăușu, C., Mija, A., Volf, I.	3.500
26	Application of model-free and multivariate nonlinear regression methods for evaluation of the kinetic scheme and kinetic parameters of thermal decomposition of low density polyethylene	THERMOCHIMICA ACTA, ISSN 0040-6031, vol. 708, art. No. 179138, 2022, WOS:000743952800014	Budrugaec Petru, Cucos Andrei, Dascalu Radu, Atkinson Irina, Osiceanu Petre	3.500
27	Assessment of hot corrosion in molten Na ₂ SO ₄ and V ₂ O ₅ of Inconel 625 fabricated by selective laser melting versus conventional technology	MATERIALS, MDPI BASEL, ISSN 1996-1944, vol.15, nr.12, art.no.4082, 2022, WOS:000816400800001	Badea Teodor Adrian, Batalu Dan, Constantin Nicolae, Paraschiv Alexandru, Patroi Delia, Ceatra Laurentiu Constantin	3.400
28	Experimental Analysis of a Fish Guidance System for a River Water Intake	WATER, vol. 14, nr. 3, 2022, pp. 1-22, eISSN 2073-4441, WOS:000755284100001	Cîrciumaru, G.; Chihaia, R.-A.; Voina, A.; Gogoșe Nistoran, D.-E.; Simionescu, Ș.-M.; El-Leathey, L.-A.; Mândrea, L.	3.400
29	High performance magnetorheological fluids: very high magnetization FeCo-Fe ₃ O ₄ nanoclusters in ferrofluid carrier	SOFT MATTER, 2022, 18(3), 626-639, ISSN: 1744-683X, WOS:000731953200001; DOI https://doi.org/10.1039/D1SM01468D	Kuncser, V. Kuncser, V. Socoliuc, D. Susan-Resiga, F. Bălănean, G. Ispas, T. Borbáth, I. Borbáth, R. Turcu, L. Vékás	3.400
30	Nutrients removal from aquaculture wastewater by biofilter/antibiotic-resistant bacteria systems.	WATER, 14(4), 607-620, DOI: 10.3390/w14040607, WOS:000763041700001	Nicula N.O., Lungulescu E. M., Ieropoulos A.I., Rîmbu A.G., Csutak O.	3.400
31	Stability study of the irradiated poly(lactic acid)/styrene isoprene styrene reinforced with silica nanoparticles	MATERIALS, 15, 14, 2022, EISSN: 1996-1944, WOS:000833333600001	Lupu AM, Maris M, Zaharescu T, Marinescu VE, Iovu H	3.400
32	Irradiation effects in polymer composites for their conversion into hybrids	JOURNAL OF COMPOSITES SCIENCE, 6, 4, 2022, WOS:000785260200001	Zaharescu T, Maris M	3.300
33	Graphene and its derivative reinforced tungsten-copper composites for electrical contact applications: A review	JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, Vol. 41, Issues 15-16, p. 624-636, Aug 2022, ISSN 0731-6844, WOS: 000798326100001	M.V. Lungu, A. Barbu	3.100
34	Hydroxyapatite-bioglass nanocomposites: Structural, mechanical, and biological aspects	BEILSTEIN JOURNAL OF NANOTECHNOLOGY, ISSN 2190-4286, vol. 13, pp.1490-1504, 2022, WOS:000895711500001	Shikimaka Olga, Bivol Mihaela, Sava Bogdan A, Dumitru Marius, Tardei Christu, Sbarcea Beatrice G., Grabco Daria, Pyrtsac Constantin, Topal Daria, Prisacaru Adrian, Cobzac Vitalie, Nacu Viorel	3.100
35	Nutrient and organic pollutants removal in synthetic wastewater by Pseudomonas aeruginosa and Chryseobacterium sp./biofilter systems.	Environmental Monitoring and Assessment- Springer Nature, 194(12), 1-12, DOI: 10.1007/s10661-022-10589-5, WOS:000867694000008	Nicula N. O., Lungulescu E. M., Rîmbu G. A., Culcea, A., & Csutak O.	3.000
36	Availability of PLA/SIS blends for packaging and medical applications. Part II: Contribution of stabilizer agents	RADIATION PHYSICS AND CHEMISTRY, 201, 2022, EISSN: 1879-0895, WOS:000848847800003	Lupu AM, Zaharescu T, Rapa M, Maris M, Iovu H	2.900

37	Designing a Spintronic Based Magnetoresistive Bridge Sensor for Current Measurement and Low Field Sensing	ELECTRONICS, Volume11, Issue 23, 3888, DOI: 10.3390/electronics11233888, WOS:000897337500001	Muşuroi Cristian, Marius Volmer, Mihai Oproiu, Jenica Neamtu, Elena Helerea.	2.900
38	Radiation modified polymers for medical applications	RADIATION PHYSICS AND CHEMISTRY, 194, 2022, EISSN: 1879-0895, WOS:000792906200004	Zaharescu T, Varca GC	2.900
39	Structural configuration-radiation stability relationship in the degradation of dumbbelled POSSs	RADIATION PHYSICS AND CHEMISTRY, 193, 2022, EISSN: 1879-0895, WOS:000792628800001	Zaharescu T, Blanco I, Maris M	2.900
40	Transparent Silver Coatings with Copper Addition for Improved Conductivity by Combined DCMS and HiPIMS Process	METALS, Volume 12, Issue 8, Article Number 1264, 2022, DOI: 10.3390/met12081264, WOS:000846534200001	Vitelaru C, Parau AC, Dinu M, Pana I, Constantin LR, Sobetkii A, Iordache I	2.900
41	Economic Efficiency of High-Entropy Alloy Corrosion-Resistant Coatings Designed for Geothermal Turbine Blades: A Case Study	APPLIED SCIENCES, Vol. 12(14), 2022, no. 7196, ISSN: 2076-3417, WOS: 000831884200001	LE Geambazu, I Voiculescu, CA Manea, RV Bololoi	2.700
42	Microstructural Properties and Wear Resistance of Fe-Cr-Co-Ni-Mo-Based High Entropy Alloy Coatings Deposited with Different Coating Techniques	APPLIED SCIENCES, vol. 12(6), 2022, no. 3156, ISSN: 2076-3417, WOS: 000776870800001	GO Boakye, LE Geambazu, AM Ormsdottir, BG Gunnarsson, I Csaki, F Fanicchia, S Kovalov, SN Karlsdóttir	2.700
43	Advanced Thermal Manikin for Thermal Comfort Assessment in Vehicles and Buildings	APPLIED SCIENCES-Basel, volume 12, anul 2022, eISSN 2076-3417, WOS:000763043300001	Ion-Guta D.D., Ursu I., Toader A., Enciu D., Danca P.A., Nastase I., Croitoru C.V., Bode F.I., Sandu M.	2.700
44	Personalized Ventilation as a Possible Strategy for Reducing Airborne Infectious Disease Transmission on Commercial Aircraft	APPLIED SCIENCES-Basel, volume 12, anul 2022, eISSN 2076-3417, WOS:000763191200001	Danca P., Cosoiu C.I., Nastase I., Bode F., Georgescu M.R.	2.700
45	Carbonaceous Materials from Forest Waste Conversion and Their Corresponding Hazardous Pollutants Remediation Performance	FORESTS, 2022, 13(12), 2080, ISSN: 1999-4907, https://doi.org/10.3390/f13122080 , WOS:000902618300001	Ungureanu, G., Bejenari, I., Hristea, G., Volf, I.	2.900
46	Correlation between mechanical properties-structural characteristics and cavitation resistance of cast Aluminum alloy type 5083	CRYSTALS, eISSN 2073-4352, vol.12, nr. 11, art. no. 1538, 2022, WOS:000880971600001	Istrate Dionisie, Sbarcea Beatrice-Gabriela, Demian Alin Mihai, Buzatu Andreea Daniela, Salcianu Laura, Bordeasu Ilare, Micu, Lavinia Madalina, Ghera Cristian, Florea Bogdan, Ghiban Brandusa	2.400
47	Preparation and study of the optical, electrical and dielectric characteristics of some disc-shaped tin dioxide-based varistors	ROMANIAN JOURNAL OF PHYSICS, Vol. 67, Issues 7-8, 610, Aug. 2022, ISSN: 1221-146X, WOS: 000867695600006	M.V. Lungu, D. Pătroi, V. Marinescu, A. Caramitu, M. Marin, D. Tâlpeanu, M. Lucaci, P. Godeanu	1.500
48	Some aspects regarding precipitates in the NiTi shape memory materials	ROMANIAN JOURNAL OF PHYSICS, 67. 903 (2022), 14 pagini, ISSN 1221-146X, WOS: 000820422700005	C.D. Cirstea, F. Tolea, D. Patroi, V. Cirstea, V. Tsakiris	1.500
49	Effectiveness of electromagnetic shielding in the case of electromagnetic shields based on ferromagnetic materials	Industria Textila, vol. 73, nr. 1, 2022, pp. 62-68, ISSN 1222-5347, http://doi.org/10.35530/IT.073.01.202129	Raluca Maria Aiteni, Cristian Morari, Doina Toma, Laura Chiriac	1.400

50	CURVED DIPOLAR ELECTROMAGNET, NUMERICAL MODELING AND DESIGN	REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, Volume 67, Issue 4, Page 409-415, 2022, ISSN 0035-4066, WOS:000932012700007	Dobrin, I; Enache, D; Dumitru, G; Gutu, M; Zamfir, S; Pintea, R	0.700
51	Physico-chemical characterization of paint films with electromagnetic properties	MATERIALE PLASTICE, vol. 59, nr. 2, 2022, pp. 9-23, ISSN 2668-8220, WOS: 000831634900002.	A.R. Caramitu, I. Ion, A.M. Bors, C.R. Ciobanu, C.Schreiner, M. Aradoaei, A.M.D. Caramitu	0.800
52	Preparation and spectroscopic characterization of some hybrid composites with electromagnetic shielding properties exposed to different degradation factors	MATERIALE PLASTICE, 2023, vol. 59, nr. 4, 2023, pp. 82-94, ISSN 2668-8220, WOS: 000965030700007.	A. Caramitu, I. Ion, A.M. Bors, V. Tsakiris, J. Pintea, AM.D. Caramitu	0.800
53	Effect of dopants on piezo - electrical properties of modified lead titanate ceramics	Revista Română de Materiale/ Romanian Journal of Materials, 2022, 52 (2), pp. 108-113, ISSN: 1583-3186, WOS:000829023400002	Al Dumitru, G Velciu, D Patroi, J Pintea, TG Dumitru, I Peter	0.700
54	Micromagnetic study of iron nanowire arrays	REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, ISSN 0035-4066, vol.67, nr.1, pp. 9-13, 2022, WOS:000810914900002	David Constantin, Kappel Wilhelm, Patroi Eros-Alexandru, Manta Eugen, Midoni Valentin	0.700
55	Improving the physical-mechanical and structural characteristics of Mg-Zn-(Mn) alloys obtained by SPS technique	ROMANIAN JOURNAL OF MATERIALS, Vol. 52, nr. 2, 2022, Pages 168 – 176, ISSN 2457-502X, ISSN-L 1583-3186, WOS:000829023400009	V. Tsakiris, D. Tâlpeanu, M.V. Lungu, D. Pătroi, G.B. Sbârcea, V.E. Marinescu	0.700
56	Angular Dependences of the Deuteron Analyzing Powers in Elastic dp Scattering at Large Transverse Momenta	PHYSICS OF ARTICLES AND NUCLEI, Volume 53, Issue 2, Page 251-255, 2022, ISSN 1063-7796, WOS:000794978500026	Ladygin, VP; Averyanov, AV; Chernykh, EV; Enache, D; Gurchin, YV; Isupov, AY; Janek, M; Karachuk, JT; Khrenov, AN; Krivenkov, DO; Kurilkin, PK; Ladygina, NB; Livanov, AN; Piyadin, SM; Reznikov, SG; Terekhin, AA; Tishevsky, AV; Uesaka, T; Volkov, IS	0.400
57	Synthesis and characterization of silica nanoparticles with modified surface for hydrophobic coatings	Journal of Optoelectronics and Advanced Materials, Vol. 24, No. 1-2, January-February 2022, pp. 74-81, ISSN: 1454-4164, WOS:000791840100013	Malaeru Teodora, Chitanu Elena, Banciu Cristina-Antonela, Codescu Mirela Maria, Georgescu Gabriela, Dascalu Radu Cristian, Patroi Delia, Marinescu Virgil Emanuel, Borbath Istvan	0.500
58	Influence of hydrogen annealing on the properties of AZO thin films	Journal of Optoelectronics and Advanced Materials, Vol. 24, No. 5-6, May-June 2022, pp. 256-262, ISSN: 1454-4164, WOS:000881225900010	I. Iordache, A. Sobetkii, C. Vițelaru, E. Chițanu, C. A. Banciu, G. Iosif, V. Marinescu, G. Sbârcea, L. Acmolă, V. Căpățînă	0.500
59	Optimization of energy consumption for the wastewater treatment plant using photovoltaic power system	University Politehnica of Bucharest Scientific Bulletin series C-Electrical Engineering and Computer Science, Vol. 84, Iss. 1, p 275-384, 2022, ISSN 2286-3540, eISSN:2286-3559, WOS:000809277600021	Boncescu C, Robescu D, Munteanu A, Murgescu I., Bunea Florentina	0.300
60	Antioxidant effects of rosemary extract on the accelerated degradation of ethylene-propylene-diene monomer	MACROMOLECULAR SYMPOSIA, 404, 1, 2022, EISSN: 1521-3900, WOS:000842344000039	Blanco I, Zaharescu T, Catauro M	0.000
61	On the applicability of model free isothermal prediction procedures for complex processes	THERMOCHIMICA ACTA, ISSN 0040-6031, vol. 717, art.no. 179340, 2022, WOS:000859447100007	Budrugaec Petru	3.500

62	The stability consequences promoted by doping metallic atoms on the degradation of poly (ϵ -caprolactone)	MACROMOL, 2, 3, 2022, 391-402, EISSN :2673-6209, WOS:001204343200001	Zaharescu T, Borbath T, Maris M, Borbath I, Maris M <i>Factor cumulat</i>	0.000 196.014
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