

Year 2020

ISI Indexed Papers

Nr. crt.	Title	Journal	Authors	Factor of impact
1.	Electrodes modified with clickable thiosemicarbazone ligands for sensitive voltammetric detection of Hg(II) ions	Sensors and Actuators B-Chemical, 313, article no: 128030, 2020, doi: 10.1016/j.snb.2020.128030	Raicopol, MD; Chira, NA; Pandele, AM; Hanganu, A; Ivanov, AA; Tecuceanu, V; Bugean, IG; Buica, GO	7.1
2.	Overall assessment of surface water quality in the Lower Danube River	Environmental Monitoring and Assessment, 192(2), article no: 135, 2020, doi: 10.1007/s10661-020-8086-8	Radu, VM; Ionescu, P; Deak, G; Diacu, E; Ivanov, AA; Zamfir, S; Marcus, MI	1.903
3.	Tertiary Treatment of Livestock Wastewater in the Context of Alternative Water Resources for Sustainable Agriculture	Revista de Chimie Bucharest, 71(10), 2020, 161-170, http://www.revistadechimie.ro , https://doi.org/10.37358/Rev.Chim.1949	Carmen Tociu, Cristina Maria, György Deák, Irina-Elena Ciobotaru, Alexandru-Anton Ivanov, Ecaterina Marcu, Florica Marinescu	1.755
4.	Statistical Distribution and Spatio-Temporal Variation of Nutrients in Lower Danube River Waters Between km 375 - km 175 in Relation to Hydrological Regime	Revista de chimie, 71(4), 2020, 71-80, http://www.revistadechimie.ro	Violeta-Monica Radu, Petra Ionescu, Gyorgy Deak, Elena Diacu, Irina-Elena Ciobotaru, Ecaterina Marcu, Mariana Pipirigeanu	1.755
5.	Assessment of Potential Toxic Elements in Muscle Tissues of Different Fish Species from Colentina, Dambovita and Arges Rivers, Romania	Revista de chimie, 71(3), 2020, 19-28, http://www.revistadechimie.ro	Petra Ionescu, Violeta-Monica Radu, Gyorgy Deak, Elena Diacu, Alexandru Anton Ivanov, Irina-Elena Ciobotaru, Ecaterina Marcu	1.755
6.	Thermal Stability of Inorganic Pigments Synthesized from Galvanic Sludge	Rev. Chim., 71 (8), 2020, 13-20	Maria-Iuliana Marcus, Maria Vlad , György Deák, Andreea Moncea, Ana-Maria Panait, Gelu Movileanu	

Nr. crt.	Title	Journal	Authors	Factor of impact
7.	Assessing and Spatio-Temporal Variations of Potentially Toxic Elements in the Sediments from Lower Danube River in 2011-2017 period	Revista de Chimie 2020, Volume 71, Issue 3	V.-M. Radu, P. Ionescu, E. Diacu, Gy. Deak, A.A. Ivanov	1.755
8.	Application in Process Industry of the Solid Particles Displacement on a Flat Oscillating Surface	Revista de Chimie Volume 71 (6), 2020, 42-50, ISSN Print 0034-7752 ISSN Online 2668-8212	Emilian-Florin Mosnegutu, Valentin Nedeff, Narcis Barsan, Ion Sandu, Mirela Panainte-Lehadus, Dana Chitimus, Ioan Gabriel Sandu, Ovidiu Bontas, Dragos-Ioan Rusu, Gheorghe Topan	1.755
9.	Surface Water and Groundwater Quality Evaluation in a Mining Area	Revista de Chimie Volume 71 (6), 2020, 136-143, ISSN Print 0034-7752 ISSN Online 2668-8212	Alina Cochiorca, Valentin Nedeff, Narcis Barsan, Ion Sandu, Emilian Mosnegutu, Dana Alexandra Chitimus, Andrei Victor Sandu, Oana Irimia	1.755
10.	Utilization of Ozone and Composite Materials in the Seed Treatment to Stimulate the Germination and Growth of Agricultural Crops	Revista de Chimie. 71. 365-370. 10.37358/RC.20.2.7938	Alisa Mosneaga, Valentin Nedeff, Ion Sandu, Petru Lozovanu, Emilian Mosnegutu, Mirela Panainte Lehadus, Ioan Gabriel Sandu	1.755
11.	Ceramic Nanofiltration Membrane Fouling: Application of Mathematical Modelling to the Use of Excitation Emission Matrix Spectroscopy	Revista de Chimie Volume 71 (5), 2020, 330-339	Mihaela-Elena Dascalu, Florin Nedeff, Ion Sandu, Emilian Mosnegutu, Andrei Victor Sandu, Juan Antonio Lopez-Ramirez	1.755
12.	Correlations on the Air Nitrogen Oxides Pollutant Concentration and Climatic Factors Variations in Bacau City	Revista de Chimie Volume 71, no. 2 2020	Narcis Barsan, Doina Capsa, Emilian Moşnegutu, Valentin Nedeff, Ion Sandu, Alexandra Dana Chitimus, Claudia Tomozei, Andrei Victor Sandu	1.755
13.	Overcoming practical barriers in reconditioning Li-polymer batteries	Revista de Chimie Volume 71, Issue 4, April 2020, Pages 366-372	Ciobotaru, I.-A., Benga, F.-M., Ciobotaru, I.-E., Vaireanu, D.-I.	1.755
14.	Photocatalytic degradation of a refractory water pollutant using Nano sized catalysts	Journal of Environmental Protection and Ecology (JEPE), vol. 21, 2: 571- 578, 2020, ISSN 1311-5065	Burlacu Iasmina- Florina, Lidia Favier, Ecaterina Matei, Cristian Predescu, György Deák	0,692

Nr. crt.	Title	Journal	Authors	Factor of impact
15.	Effect of mesoporous silica with TiO ₂ / ZnO nanocomposites in wastewater treatment	Revista Română de Materiale, 2020, 50(1), 3-9	Florina-Diana Dumitru, Mihaela-Andreea Moncea, Andreea Georgiana Baraitaru, Ana-Maria Panait, Marius Viorel Olteanu, György Deák	0,650
16.	Electrodes modified with clickable thiosemicarba-zone ligands for sensitive voltammetric detection of Hg(II) ions	Sensors and Actuators B: Chemical 313, 15 June 2020, Article number: 128030 https://doi.org/10.1016/j.snb.2020.128030	Matei D. Raicopol, Nicoleta Aurelia Chira, Andreea M. Pandelescu, Anamaria Hanganu, Alexandru Anton Ivanov, Victorita Tecuceanu, Ioana Georgiana Bugean, George-Octavian Buica	
17.	Bioaccumulation of Heavy Metals in Perennial Wetland Vegetation Components from a Sector of the Arges River	IOP Conference Series: Earth and Environmental Science, 2020, 012065, doi:10.1088/1755-1315/616/1/012065	Ecaterina Marcu, Irina-Elena Ciobotaru, Cristina Maria, Alexandru-Anton Ivanov, Iasmina-Florina Burlacu, Naimah Ibrahim	0.410
18.	Strategic Actions for Packaging Waste Management and Reduction	IOP Conference Series: Earth and Environmental Science, 2020, 616(1), 012016	Radu V.M., Chiriac M., Deak Gy., Pipirigeanu M.	0.410
19.	Detection of emerging pollutants oxytetracycline and paracetamol and the potential aquatic ecological risk associated with their presence in surface waters of the Arges-Vedea, Buzau-Ialomita, Dobrogea-Litoral River Basins in Romania	IOP Conf. Ser.: Earth Environ. Sci. 616 012016	Mihaela Ilie, György Deák, Florica Marinescu, Gina Ghita, Carmen Tociu, Monica Matei, Cristina Ileana Covaliu, Marius Raischi, Sara Yasina Yusof	0.410
20.	Age and growth determination of Lower Danube sturgeon species Huso huso and Acipenser stellatus	IOP Conf. Ser.: Earth Environ. Sci. 616 012032	Marius Raischi, György Deák, Lucian Oprea, Natalia Raischi, Tiberius Danalache	0.410
21.	The impact of anthropogenic pressures on sturgeon migration in the Lower Danube	IOP Conf. Ser.: Earth Environ. Sci. 616 012030	Marius Raischi, György Deák, Lucian Oprea, Natalia Raischi, Tiberius Dănălache, Stelian Matei	0.410

Nr. crt.	Title	Journal	Authors	Factor of impact
22.	Meteorological parameters and air pollution in urban environments in the context of sustainable development	IOP Conf. Ser.: Earth Environ. Sci. 616 012003	György Deák, Natalia Raischi, Monica Matei, Madalina BOBOC, Gabriel Cornateanu, Marius Raischi, Stelian Matei	0.410
23.	Assessment of the state of ichthyofauna from Danube River - Caleia Branch, Romania, in sustainable development context	IOP Conf. Ser.: Earth Environ. Sci. 616 012039	Danalache T.M., Deák Gy., Holban E., Parlog C., Nicolae C. G., Matei S., Cristea M. A	0.410
24.	Evaluating the effect of the hydrotechnical works from the Danube's Caleia Branch on the spawning migration of sturgeons	IOP Conf. Ser.: Earth Environ. Sci. 616 012025	Danalache T.M., Deák Gy., Holban E., Raischi M. C., Fronescu D. S., Nicolae C.G., Cristea M.A.	0.410
25.	Bioengineering technologies used for the development and equipment of complex installations to obtain energy from three renewable sources. Complex installations for coastal areas	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012028	George Poteraş, György Deák, Andreea-Georgiana Baraitaru, Marius Viorel Olteanu, Natalia Simona Raischi	0.410
26.	Transboundary River Hydrodynamic Conditions Assessment in Sustainable Development Context. Case study Danube River: Chilia Branch - Bystroe Channel Area	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012072	Georgeta Tudor, DEÁK György, Constantin Cîrstinoiu, Marius Raischi, Tiberius Dănălache, Gabriel Cornăţeanu, Edward Bratfanof	0.410
27.	Synthesis of studies conducted to reveal the impact of the Bastroe Canal on the physico-chemical conditions and biodiversity in Danube Delta Biosphere Reserve (DDBR)	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012022	Edward Bratfanof, DEÁK György, Georgeta Tudor, Tiberius Dănălache, Elena Holban, Madalina Boboc	0.410
28.	Assessing the applicability of ecological materials obtained with CRT Glass	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012048	Florina-Diana Dumitru, Mihaela-Andreea Moncea, Andreea-Georgiana Baraitaru, Petrache-Ionut Gheorghe, Silviu Stanciu, György Deák, Romisuhani Ahmad	0.410
29.	Circular Economy-Waste Reuse into a Spongy Oxide Material with Photocatalytic Activity for a Sustainable Development	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012068	Iasmina-Florina Burlacu, György Deák, Ecaterina Marcu, Ingrid Proriol Serre, David Balloy, Dewi Suriyani Che Halin	0.410

Nr. crt.	Title	Journal	Authors	Factor of impact
30.	Assessing the recovery opportunities of different types of wastes by their embedment in inorganic binders	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012044	Mihaela-Andreea Moncea, Florina-Diana Dumitru, Andreea-Georgiana Baraitaru, Mădălina Georgiana Boboc, György Deák, Rafiza Abdul Razak	0.410
31.	Improvement of microplastics separation from synthetic samples - a key step for their analysis	2020 IOP Conf. Ser.: Mater. Sci. Eng. 877 012026	Irina Elena Ciobotaru, Ecaterina Marcu, Cristina Maria, Alexandru Ivanov, Ioana Savin, Andreea Moncea, Carmen Tociu and György Deák	0.410
32.	Assessing the contamination of the Dambovita river through heavy metal indices	2020 IOP Conf. Ser.: Mater. Sci. Eng. 877 012057	Florina Diana Dumitru György Deák, Mihaela Andreea Moncea, Andreea Georgiana Baraitaru, Petrache Ionut Gheorghe and Irina Elena Ciobotaru	0.410
33.	Carbon dynamics projection for the Quercus petraea and Robinia pseudoacacia species - Case study	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012007	Bara Norbert, Rotaru Anda, Laslo Lucian, Matei Monica, Boboc Madalina, Coman Valentina, Voicu Madalina, Enache Natalia, Deák György	0.410
34.	Experimental determination of carbon dioxide flux in soil and correlation with dependent parameters	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012010	Voicu Madalina, Coman Valentina, Enache Natalia, Laslo Lucian, Matei Monica, Rotaru Anda, Bara Norbert, Boboc Madalina, Deák György	0.410
35.	General framework for ecosystem assessment for measures to adapt and mitigate the effects of climate change	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012013	Coman Valentina, Voicu Madalina, Laslo Lucian, Rotaru Anda, Matei Monica, Bara Norbert, Enache Natalia, Boboc Madalina, Deák György	0.410
36.	Biotechnology of water treatment based on Algae cultures	2020 IOP Conf. Ser.: Earth Environ. Sci. 616 012081	Covaliu C.I., Nedelcu A., Deak Gy., Stoian O.,	0.410
37.	Hydrothermal synthesis of advanced composite materials for various environmental applications	Proceedings of Advanced Material, Engineering & Technology - AIP Conf. Proc. 2291, 020087-1-020087-7; https://doi.org/10.1063/5.0022869	Andreea Georgiana Baraitaru, György Deák, Andreea Mihaela Moncea, Diana Florina Dumitru, Ana Maria Panait, Marius Viorel Olteanu, Ionut Petrache Gheorghe, and Zarina Yahya	

Nr. crt.	Title	Journal	Authors	Factor of impact
38.	Practical applications of nano-SiO ₂ obtained by different synthesis routs in construction materials domain	Proceedings of Advanced Material, Engineering & Technology AIP Conference Proceedings 2291, 020021 (2020)	Mihaela Andreea Moncea, György Deák, Andreea Goergiana Baraitaru, Florina Diana Dumitru, Marius Viorel Olteanu, Ana Maria Panait, Gabriel Cornățeanu, Mohd Mustafa Al Bakri Abdullah, and Muhammad Faheem Mohd Tahir	
39.	Microstructural characterization of plastering mortars with CRT glass addition	Proceedings of Advanced Material, Engineering & Technology AIP Conference Proceedings 2291, 020020 (2020)	Florina Diana Dumitru, Ana Maria Panait, Mihaela Andreea Moncea, Andreea Georgina Baraitaru, Marius Viorel Olteanu, Iuliana Marcus, Petrache Ionut Gheorghe, György Deák, and Muhammad Faheem Mohd Tahir	
40.	Technological alternatives for the treatment of livestock wastewater in order to ensure the quality conditions required for the irrigation of agricultural crops	Proceedings of Advanced Material, Engineering & Technology AIP Conference Proceedings, 2291: 020019, 2020	Carmen Tociu, György Déak, Cristina Maria, Irina Elena Ciobotaru, Alexandru Ivanov, Ecaterina Marcu, Florica Marinescu, Ioana Savin and Norazian Mohamed Noor	
41.	Assessing the economic costs of the monitoring campaigns from 2011 till 2019 that study the lower Danube's sturgeon species using ultrasonic telemetry	Proceedings of Advanced Material, Engineering & Technology - AIP Conf. Proc. 2291, pag. 020018-1-020018-6; https://doi.org/10.1063/5.0023981	Tiberius Marcel Danalache, György Deák, Elena Holban, Marius Constantin Raischi, Monica Matei, Madalina Georgiana Boboc, Alexandru Cristea, Cosmin Parlog, Simona Diana Fronescu, and Ionut Petrache Gheorghe	
42.	Underground Air Quality Monitoring in Subway Stations in Bucharest City	Proceedings of Advanced Material, Engineering & Technology - AIP Conf. Proc. 2291, pag. 020032-1-020032-10; https://doi.org/10.1063/5.0023154	György Deák, Simona Natalia Raischi, Eduard Pană, Ștefan Adrian Zamfir, Marius Constantin Raischi, Lucian Lumânăroiu, Cristina Sîrbu, and Norazian Mohamed Noor	
43.	Advanced treatment solutions intended for the reuse of livestock wastewater in agricultural applications	Proceedings of Advanced Material, Engineering & Technology AIP Conference Proceedings, 2291: 020017, 2020	Ilie M., Deák Gy., Marinescu F., Ghiță G., Tociu C., Raischi M., Boboc M.	

Nr. crt.	Title	Journal	Authors	Factor of impact
44.	Food Crop Responses to Various Factors in Romania	Proceedings of Advanced Material, Engineering & Technology - AIP Conf. Proc. 2291, pag. 020031-1-020031-9; https://doi.org/10.1063/5.0022782	Anda Rotaru, Monica Matei, Valentina Coman, Lucian Laslo, Madalina Voicu, Theodor Lupei, Norbert Bara, Madalina Boboc, György Deák, and Gabriel Cornățeanu	
45.	Assessment of antibiotics from natural water resources and the potential ecological risk associated with their presence in aquatic ecosystems for developing advanced technologies for removal of antibiotic.	Proceedings of Advanced Material, Engineering & Technology AIP Conference Proceedings 2291, p. 020017-1-020017-6; 2020	Mihaela Ilie, György Deák, Florica Marinescu, Gina Ghita, Carmen Tociu, Marius Raischi, Gabriel Cornățeanu, Mădălina Boboc, Norazian Mohamed Noor	-
46.	Profiles of Blades and Paddles for Turbines with Geometric Design Inspired By Nature	Proceedings of Advanced Material, Engineering & Technology - AIP Conf. Proc. 2291, 020016-1-020016-7; https://doi.org/10.1063/5.0023562	George Poteraș, György Deák, Marius Viorel Olteanu, Iasmina -Florina Burlacu, Cristina Sîrbu, Noorhafiza Muhammad, and Nurul Aida Mohd Mortar	-
47.	Use of bio-engineering technologies in the construction and upgrade of complex installations for obtaining energy from three renewable sources. Complex installations for flowing waters	E3S Web Conf. Volume 239, 00009 (2021)	George Poteraș, György Deák, Iasmina-Florina Burlacu, Simona Natalia Raischi, and Violeta-Monica Radu	
48.	Advanced catalytic materials obtained from waste for wastewater treatment applications	U.P.B. Sci. Bull., Series B, Vol. 83, Iss. 2, 2021	Iasmina-Florina Burlacu György Deák, Lidia Favier, Ingrid Prioriol Serre, David Balloy	
49.	Evaluation of the Corrosion Resistance of Phosphate Coatings Deposited on the Surface of the Carbon Steel Used for Carabiners Manufacturing	Applied Sciences (ISSN 2076-3417; CODEN: ASPCC7)	Diana-Petronela, Burduhos-Nergis, Petrica Vizureanu, Andrei Victor Sandu, Costica Bejinariu	
50.	Strength Development and Elemental Distribution of Dolomite/Fly Ash Geopolymer Composite under Elevated Temperature	Applied Materials (ISSN 1996-1944; CODEN: MATEG9)	Emy Aizat Azimi, Mohd Mustafa Al Bakri Abdullah, Petrica Vizureanu, Mohd Arif Anuar Mohd Salleh, Andrei Victor Sandu, Jitrin Chaiprapa, Sorachon Yoriya, Kamarudin Hussin, Ikmal Hakem Aziz	

Nr. crt.	Title	Journal	Authors	Factor of impact
51.	XRD and TG-DTA Study of New Alkali Activated Materials Based on Fly Ash with Sand and Glass Powder	Applied Materials (ISSN 1996-1944; CODEN: MATEG9)	Dumitru Doru Burduhos Nergis, Mohd Mustafa Al Bakri Abdullah, Andrei Victor Sandu, Petrică Vizureanu	
52.	Flavonoid Profiles of Two New Approved Romanian Ocimum Hybrids	Molecules. 2020 Oct; 25(19): 4573.	Fanica Balanescu, Maria Daniela Ionica Mihaila, Geta Cârâc, Bianca Furdui, Costel Vinatoru, Sorin Marius Avramescu, Elena Lacramioara Lisa, Mihaela Cudalbeanu, Rodica Mihaela Dinica	

Year 2020

BDI Indexed Papers

Nr. crt.	Title	Journal	Authors
1.	Handy and sustainable method of nano-Ca(OH) ₂ synthesis used in conservation and consolidation works	International Journal of Conservation Science, 2020, Vol. 11 Issue 2, pp. 531-538	Moncea Mihaela - Andreea, Deák György, Panait Ana - Maria, Baraitaru Andreea Georgiana, Dumitru, Florina - Diana
2.	Spatio-Temporal Variations and Distribution of Potentially Toxic Elements in Lower Danube Water in Relation to Hydrological Regime	Proceedings of Academicsera International Conference, Rome, pp. 1-6, Italy, 20 - 21 March, 2020	Violeta-Monica Radu, Gyorgy Deak, Elena Diacu, Irina-Elena Ciobotaru, Ecaterina Marcu
3.	Risk Assessment of Heavy Metals in Surface Sediments from the Aquatic Environments Located in Crowded Areas of Southern Romania	Proceedings of Academicsera International Conference, Rome, pp. 7-11, Italy, 20 - 21 March, 2020	Petra Ionescu, György Deák, Elena Diacu, Ecaterina Marcu, Irina-Elena Ciobotaru
4.	Legislative framework regarding greenhouse gases - LULUCF Sector	Agricultural and Mechanical Engineering, 2020, ISSN 2344 - 4118, pp 787-792	Laslo Lucian, Rotaru Irena, Coman Valentina, Enache Natalia, Matei Monia, Deák György
5.	Findings of the fish inventory within the Lower Danube River from 2008 to 2020	Current Trends in Natural Sciences, Vol.9, Issue 17, 2020 - in press	Danalache Tiberius, Holban Elena, Deak Gyorgy, Parlog Cosmin,

Nr. crt.	Title	Journal	Authors
			Matache Răzvan, Cudalbeanu Mihaela, Nicolae Carmen Georgeta
6.	Ecological characterization of the fish communities within the Lower Danube River	Current Trends in Natural Sciences, Vol.9, Issue 17, 2020 - in press	Holban Elena, Danalache Tiberius, Deak Gyorgy, Parlog Cosmin, Matache Răzvan, Cudalbeanu Mihaela, Nicolae Carmen Georgeta
7.	Agricultural Soils Evaluation, After Use Of Diatomite As An Ecological Insecticide	ISB-INMA TEH' 2020 International Symposium, Agricultural and Mechanical Engineering	Valentina Coman, Lucian Laslo, Natalia Enache, Anda Irena Rotaru, Monica Matei, Norbert Bara, Deák György
8.	Legislative Framework Regarding Greenhouse Gases - LULUCF Sector	ISB-INMA TEH' 2020 International Symposium, Agricultural and Mechanical Engineering	Lucian Laslo, Anda Irena Rotaru, Valentina Coman, Natalia Enache, Monica Matei, Deák György
9.	Analysis of the current situation regarding the temporal evolutions of GHG emissions and absorptions	ISB-INMA TEH' 2020 International Symposium, Agricultural and Mechanical Engineering	Voicea I, Dumitru D., Neagoe M, Gageanu, Matei Monica Boboc Madalina
10.	Variation OF PM ₁₀ concentration depending on the meteorological parameters in two Bucharest monitoring stations (in Green Areas)	PESD, VOL. 14, no. 1, 2020	Katalin Bodor, Réka Boga, Tímea Pernyeszi, Szende Tonk, György Deák