

Igor Cretescu

List of Publications by Year in descending order

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100
papers

2,161
citations

279778

23
h-index

243610

44
g-index

101
all docs

101
docs citations

101
times ranked

2906
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and remediation of soils contaminated with uranium. <i>Journal of Hazardous Materials</i> , 2009, 163, 475-510.	12.4	481
2	An experimental study of indigo carmine removal from aqueous solution by electrocoagulation. <i>Desalination</i> , 2011, 277, 227-235.	8.2	118
3	Modeling and optimization of tartaric acid reactive extraction from aqueous solutions: A comparison between response surface methodology and artificial neural network. <i>Separation and Purification Technology</i> , 2010, 75, 273-285.	7.9	105
4	Peat-based sorbents for the removal of oil spills from water surface: Application of artificial neural network modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 675-684.	4.7	86
5	Preparation, characterization and applicability of cellulose acetate-polyurethane blend membrane in separation techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 370, 120-128.	4.7	85
6	Response surface optimization of the photocatalytic decolorization of a simulated dyestuff effluent. <i>Chemical Engineering Journal</i> , 2008, 141, 18-26.	12.7	71
7	Biosorption of copper(II) ions from aqua solutions using dried yeast biomass. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 335, 181-188.	4.7	70
8	Design of experiments for statistical modeling and multi-response optimization of nickel electroplating process. <i>Chemical Engineering Research and Design</i> , 2011, 89, 136-147.	5.6	58
9	Ionic liquids supported on magnetic nanoparticles as a sorbent preconcentration material for sulfonylurea herbicides prior to their determination by capillary liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1529-1538.	3.7	53
10	Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (<i>Brassica napus</i>). <i>Environmental Science and Pollution Research</i> , 2016, 23, 10693-10701.	5.3	52
11	Fractional Factorial Design Study on the Performance of GAC-Enhanced Electrocoagulation Process Involved in Color Removal from Dye Solutions. <i>Materials</i> , 2013, 6, 2723-2746.	2.9	47
12	Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-13.	2.7	45
13	Sono-electrocoagulation of wastewater polluted with Rhodamine 6G. <i>Separation and Purification Technology</i> , 2014, 135, 110-116.	7.9	42
14	Response surface methodology applied for Orange II photocatalytic degradation in TiO ₂ aqueous suspensions. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1454-1465.	3.2	38
15	A Solid-Contact Ion Selective Electrode for Copper(II) Using a Succinimide Derivative as Ionophore. <i>Sensors</i> , 2013, 13, 4367-4377.	3.8	37
16	Performances of clay aerogel polymer composites for oil spill sorption: Experimental design and modeling. <i>Separation and Purification Technology</i> , 2014, 133, 260-275.	7.9	37
17	Synthesis and characterisation of a binder cement replacement based on alkali activation of fly ash waste. <i>Chemical Engineering Research and Design</i> , 2018, 119, 23-35.	5.6	37
18	Photocatalytic Treatment of Rhodamine 6G in Wastewater Using Photoactive ZnO. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-8.	2.5	31

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19	Functionalized carbon nanotubes for hydrocarbon removal from water. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103570.	6.7	30
20	Removal of heavy metal ions from aqueous solutions using low-cost sorbents obtained from ash. <i>Chemical Papers</i> , 2013, 67, .	2.2	28
21	A Technical Approach to the Evaluation of Radiofrequency Radiation Emissions from Mobile Telephony Base Stations. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 244.	2.6	25
22	A COMPARATIVE STUDY OF ELECTROCOAGULATION AND CHEMICAL COAGULATION PROCESSES APPLIED FOR WASTEWATER TREATMENT. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1517-1525.	0.6	25
23	Uranium removal from aqueous solutions by raw and modified thermal power plant ash. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 381-386.	1.5	24
24	Behaviour of the poly(maleic anhydride-co-vinyl acetate) copolymer in aqueous solutions. <i>European Polymer Journal</i> , 2001, 37, 729-735.	5.4	23
25	Bioelectro-Claus processes using MFC technology: Influence of co-substrate. <i>Bioresource Technology</i> , 2015, 189, 94-98.	9.6	23
26	A low-cost sorbent for removal of copper ions from wastewaters based on sawdust/fly ash mixture. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1799-1810.	3.5	22
27	Low-cost sorbents for the removal of acid dyes from aqueous solutions. <i>Chemical Engineering Research and Design</i> , 2017, 108, 57-66.	5.6	22
28	Removal of 2,4-D herbicide in soils using a combined process based on washing and adsorption electrochemically assisted. <i>Separation and Purification Technology</i> , 2018, 194, 19-25.	7.9	22
29	Experimental design for modelling and multi-response optimization of Fe-Ni electroplating process. <i>Chemical Engineering Research and Design</i> , 2015, 96, 138-149.	5.6	21
30	Preparation and characterization of MnO ₂ -based nanoparticles at different annealing temperatures and their application in dye removal from water. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 1499-1512.	3.5	19
31	Scandium Recovery Methods from Mining, Metallurgical Extractive Industries, and Industrial Wastes. <i>Materials</i> , 2022, 15, 2376.	2.9	19
32	Electrochemical coagulation of treated wastewaters for reuse. <i>Desalination and Water Treatment</i> , 2013, 51, 3381-3388.	1.0	18
33	Mesoporous cerium-doped titania for the photocatalytic removal of persistent dyes. <i>Catalysis Today</i> , 2018, 306, 300-309.	4.4	17
34	Removal of Rhodamine 6G from Aqueous Effluents by Electrocoagulation in a Batch Reactor: Assessment of Operational Parameters and Process Mechanism. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	15
35	Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials. <i>Polymers</i> , 2021, 13, 3867.	4.5	15
36	ELECTROCOAGULATION TREATMENT OF SULFIDE WASTEWATER IN A BATCH REACTOR: EFFECT OF ELECTRODE MATERIAL ON ELECTRICAL OPERATING COSTS. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1485-1491.	0.6	14

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37	Cesium and barium removal from aqueous solutions in the presence of humic acid and competing cations by a Greek bentonite from Kimolos Island. <i>Applied Radiation and Isotopes</i> , 2021, 170, 109600.	1.5	12
38	Treatment of Pesticides in Wastewater by Heterogeneous and Homogeneous Photocatalysis. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-6.	2.5	11
39	Graphical Methodology of Global Pollution Index for the Environmental Impact Assessment Using Two Environmental Components. <i>Sustainability</i> , 2017, 9, 593.	3.2	10
40	Modified Jordanian zeolitic tuff in hydrocarbon removal from surface water. <i>Journal of Environmental Management</i> , 2019, 239, 333-341.	7.8	10
41	EFFECT OF VANADIUM REPLACEMENT BY ZIRCONIUM ON THE ELECTROCHEMICAL BEHAVIOR OF Ti6Al4V ALLOY IN RINGER'S SOLUTION. <i>Environmental Engineering and Management Journal</i> , 2008, 7, 701-706.	0.6	10
42	OPTIMIZATION PROCESS OF CADMIUM AND ZINC REMOVAL FROM SOIL BY PHYTOREMEDIATION USING Brassica napus AND Triticales sp.. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 271-278.	0.6	10
43	Multi-Objective Optimization of Indigo Carmine Removal by an Electrocoagulation/GAC Coupling Process in a Batch Reactor. <i>Separation Science and Technology</i> , 2014, 49, 924-938.	2.5	9
44	Environmental assesment of surface waters based on monitoring data and neuro-evolutive modelling. <i>Chemical Engineering Research and Design</i> , 2018, 120, 136-145.	5.6	9
45	Novel Hybrid Nanoparticles: Synthesis, Functionalization, Characterization, and Their Application in the Uptake of Scandium (III)Ions from Aqueous Media. <i>Materials</i> , 2020, 13, 5727.	2.9	9
46	INFLUENCE OF SOME PARAMETERS ON NITRATE REMOVAL FROM WATER BY PUROLITE A-520E RESIN. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 1553-1559.	0.6	9
47	EQUILIBRIUM AND KINETICS STUDY OF NITRATE REMOVAL FROM WATER BY PUROLITE A520-E RESIN. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 37-45.	0.6	9
48	PREPARATION AND CHARACTERIZATION OF NANOCOMPOSITE MATERIAL BASED ON TiO ₂ -Ag FOR ENVIRONMENTAL APPLICATIONS. <i>Environmental Engineering and Management Journal</i> , 2018, 17, 925-936.	0.6	9
49	Using Fly Ash Wastes for the Development of New Building Materials with Improved Compressive Strength. <i>Materials</i> , 2022, 15, 644.	2.9	9
50	Study of Sludge Particles Formed during Coagulation of Synthetic and Municipal Wastewater for Increasing the Sludge Dewatering Efficiency. <i>Water (Switzerland)</i> , 2019, 11, 101.	2.7	8
51	A novel pulsed xenon flashlamp photoreactor and its potential applications in flow analysis with chemiluminescence detection. <i>Analytical Methods</i> , 2013, 5, 3650.	2.7	7
52	Antibacterial Efficiency of Stainless-Steel Grids Coated with Cu-Ag by Thermionic Vacuum Arc Method. <i>Coatings</i> , 2020, 10, 322.	2.6	7
53	Zeolites in technologies of pollution prevention and remediation of aquatic systems. <i>Vestnik of Institute of Geology of Komi Science Center of Ural Branch RAS</i> , 2017, 5, 49-53.	0.2	7
54	ASSESSING THE HUMAN EXPOSURE DUE TO WIRELESS LOCAL AREA NETWORKS IN OFFICE ENVIRONMENTS. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 385-391.	0.6	7

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55	MONITORING OF WATER QUALITY INDICATORS FOR IMPROVING WATER RESOURCES MANAGEMENT OF BAHLUI RIVER. Environmental Engineering and Management Journal, 2011, 10, 327-332.	0.6	7
56	Novel Liquid Chitosan-Based Biocoagulant for Treatment Optimization of Fish Processing Wastewater from a Moroccan Plant. Materials, 2021, 14, 7133.	2.9	7
57	Valorization of $\hat{1}^2$ -Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment. Materials, 2022, 15, 2803.	2.9	7
58	ENHANCING THE FENTON PROCESS BY UV LIGHT APPLIED IN TEXTILE WASTEWATER TREATMENT. Environmental Engineering and Management Journal, 2015, 14, 595-600.	0.6	6
59	Potential Application of Macrocyclic Compounds for Selective Recovery of Rare Earth Scandium Elements from Aqueous Media. Journal of Sustainable Metallurgy, 2022, 8, 135-147.	2.3	6
60	V2O5 Nanoparticles for Dyes Removal from Water. Chemistry Journal of Moldova, 2021, 16, 102-111.	0.6	6
61	Photocatalytic treatment of colored wastewater from medical laboratories: photodegradation of Nuclear Fast Red. Desalination and Water Treatment, 2016, 57, 18897-18905.	1.0	5
62	Environmental assessment of physical-chemical features of Lake Nasser, Egypt. Environmental Science and Pollution Research, 2020, 27, 20136-20148.	5.3	5
63	BIOSORPTION OF MALACHITE GREEN FROM AQUEOUS SOLUTIONS ONTO BIOMATERIALS. Environmental Engineering and Management Journal, 2010, 9, 67-71.	0.6	5
64	IN VITRO CORROSION STUDY BY ELECTROCHEMICAL AND SURFACE ANALYSIS TECHNIQUES OF A Ti50TA ALLOY FOR DENTAL APPLICATIONS. Environmental Engineering and Management Journal, 2010, 9, 81-87.	0.6	5
65	REMOVAL OF DUNKEL BLAU DYE FROM AQUEOUS SOLUTIONS BY FUNGAL AND PEAT BIOMASS IN BATCH MODE. Environmental Engineering and Management Journal, 2010, 9, 107-112.	0.6	5
66	ELECTROCHEMICAL SENSORS FOR HEAVY METAL IONS DETECTION FROM AQUEOUS SOLUTIONS. Environmental Engineering and Management Journal, 2012, 11, 463-470.	0.6	5
67	DEVELOPMENT OF AN EXPERT SYSTEM FOR SURFACE WATER QUALITY MONITORING IN THE CONTEXT OF SUSTAINABLE MANAGEMENT OF WATER RESOURCES. Environmental Engineering and Management Journal, 2013, 12, 1721-1734.	0.6	5
68	MONITORING OF MERCURY FROM AIR AND URBAN DUST IN THE INDUSTRIAL AREA OF IASI MUNICIPALITY. Environmental Engineering and Management Journal, 2014, 13, 2051-2061.	0.6	5
69	Case Studies for Clean Technology Development in the Chemical Industry Using Zeolite Based Catalysts. Minerals (Basel, Switzerland), 2018, 8, 462.	2.0	4
70	Investigation of a biosystem based on Arthrospira platensis for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. Chemosphere, 2021, 264, 128465.	8.2	4
71	Polystyrene-Fe3O4-MWCNTs Nanocomposites for Toluene Removal from Water. Materials, 2021, 14, 5503.	2.9	4
72	Monitoring of Surface Water Status in the Lower Danube Basin. , 2016, , .		3

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73	A CASE STUDY OF INDUSTRIAL WATER POLLUTED WITH CHROMIUM (VI) AND ITS IMPACT TO RIVER RECIPIENT IN WESTERN SERBIA. Environmental Engineering and Management Journal, 2010, 9, 45-49.	0.6	3
74	CHELATING SORBENT CONTAINING TWO TYPES OF FUNCTIONAL GROUPS - HYDROXAMIC ACID AND AMIDOXIME FOR LEAD (II) IONS EFFLUENT MANAGEMENT. Environmental Engineering and Management Journal, 2010, 9, 113-118.	0.6	3
75	NEW MESOPOROUS TITANIUM OXIDE-BASED PHOTOACTIVE MATERIALS FOR THE REMOVAL OF DYES FROM WASTEWATERS. Environmental Engineering and Management Journal, 2017, 16, 801-807.	0.6	3
76	Sustainable Functionalization of PAN to Improve Tinctorial Capacity. Polymers, 2021, 13, 3665.	4.5	3
77	STUDY OF DIFFERENT LIQUID MEDIA INFLUENCE ON Arthrospira platensis MICROALGAE CULTIVATION FOR ENVIRONMENTAL APPLICATIONS. Environmental Engineering and Management Journal, 2020, 19, 353-358.	0.6	2
78	STUDIES ON DIESEL OIL SPILLS REMOVAL FROM WATER SURFACE USING PEAT. PROCESS MODELLING AND OPTIMIZATION. Environmental Engineering and Management Journal, 2004, 3, 247-257.	0.6	2
79	Electrochemical Determination of the Corrosion Resistance of Ag-Pd Dental Alloys. Revista De Chimie (discontinued), 2008, 59, .	0.4	2
80	STUDIES UPON THE GROUNDWATER QUALITY INDEX OF THE AQUIFER FROM BARLAD MIDDLE BASIN. , 2013, , .		2
81	USE OF MACROINVERTEBRATES FOR ASSESSMENT OF RESTORATION WORKS INFLUENCE ON THE HABITAT IN FLOODPLAIN LAKES. Environmental Engineering and Management Journal, 2017, 16, 969-978.	0.6	2
82	New Approaches in Modeling and Simulation of CO2 Absorption Reactor by Activated Potassium Carbonate Solution. Processes, 2019, 7, 78.	2.8	1
83	THE TREATMENT AND MINIMIZATION OF METALLURGICAL SLAG AS WASTE. Environmental Engineering and Management Journal, 2010, 9, 101-106.	0.6	1
84	ENHANCEMENT OF SEPARATION PERFORMANCES OF A NEW AZOIC DERIVATIVE FROM INDUSTRIAL WATER AND THE POSSIBILITY TO RECOVER ITS COMPLEX AS NANOMATERIAL. Environmental Engineering and Management Journal, 2010, 9, 147-151.	0.6	1
85	RESPONSE SURFACE METHODOLOGY FOR OPTIMIZATION OF LANDFILL LEACHATE TREATMENT USING ION EXCHANGE RESINS. Environmental Engineering and Management Journal, 2011, 10, 357-366.	0.6	1
86	Corrosion Behaviour of Ni-Cr Based Biomaterials in Rondelli Saliva. Revista De Chimie (discontinued), 2008, 59, .	0.4	1
87	Application of Low-Cost Sorbent for Oil Spill Sorption Using Response Surface Methodological Approach. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 109-118.	0.2	1
88	Valorization of Low-Cost Natural Materials in Depollution Processes of Wastewater. Chemistry Journal of Moldova, 2014, 9, 53-58.	0.6	1
89	New electrode materials with modified properties. , 0, , .		0
90	Photocatalytic properties of N-doped TiO ₂ . the effect of the synthesis procedure. , 2010, , .		0

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91	Differential Pulse Anodic Stripping Voltammetry for Mercury Determination. Acta Chemica Iasi, 2015, 23, 13-24.	0.1	0
92	STUDY OF PLATINUM ELECTRODES APPLIED IN THE TREATMENT OF PHENOLIC WASTEWATER. Environmental Engineering and Management Journal, 2002, 1, 551-556.	0.6	0
93	EVALUATION OF NATURAL ION EXCHANGERS FOR THE REMOVAL OF RADIOACTIVE ISOTOPES FROM LIQUID EFFLUENTS. Environmental Engineering and Management Journal, 2002, 1, 577-588.	0.6	0
94	POSSIBILITIES OF ALUMINUM REMOVAL FROM AQUEOUS SOLUTIONS USING ORIGINAL POLYURETHANE MEMBRANES. Environmental Engineering and Management Journal, 2004, 3, 649-660.	0.6	0
95	The Study of Catalytic Degradation of Malvidin-3-Glucoside from Red Wines, using Molecular Absorption Spectrophotometry. Revista De Chimie (discontinued), 2008, 59, 314-317.	0.4	0
96	New Coordination Compounds of Fe(III) with Organic Ligands. Revista De Chimie (discontinued), 2009, 59, .	0.4	0
97	STUDIES ON THE BIOSORPTION OF TERASIL DYE BY ASPERGILLUS NIGER DEAD BIOMASS. Environmental Engineering and Management Journal, 2010, 9, 335-339.	0.6	0
98	MOBILE PHONES ELECTROMAGNETIC FIELD RADIATION RESEARCH AND ANALYSIS OF ITS DISPERSION BY APPLYING MATLAB7 SOFTWARE. Environmental Engineering and Management Journal, 2017, 16, 1177-1184.	0.6	0
99	A NEW APPROACH TO OBTAIN AEROGELS FOR GAS SAFETY APPLICATIONS. Environmental Engineering and Management Journal, 2019, 18, 1721-1726.	0.6	0
100	PACKED COLUMN SIMULATION FOR CO2 CHEMISORPTION IN ACTIVATED SOLUTIONS. Environmental Engineering and Management Journal, 2020, 19, 325-333.	0.6	0