## Mehrab Mehrvar

List of Publications by Year in descending order

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126907 168389 3,402 109 33 53 citations h-index g-index papers 110 110 110 3356 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Highly sensitive and selective non-enzymatic measurement of glucose using arraying of two separate sweat sensors at physiological pH. Electrochimica Acta, 2022, 404, 139749.	5.2	8
2	Seawater transport through quartz pores of coastal aquifers: A molecular dynamics study. Advances in Water Resources, 2022, 161, 104121.	3.8	4
3	New advancements, challenges, and future needs on treatment of oilfield produced water: A state-of-the-art review. Separation and Purification Technology, 2022, 289, 120652.	7.9	45
4	Treatment of Actual Winery Wastewater by Fenton-like Process: Optimization to Improve Organic Removal, Reduce Inorganic Sludge Production and Enhance Co-Treatment at Municipal Wastewater Treatment Facilities. Water (Switzerland), 2022, 14, 39.	2.7	7
5	A hybrid scaffold of gelatin glycosaminoglycan matrix and fibrin as a carrier of human corneal fibroblast cells. Materials Science and Engineering C, 2021, 118, 111430.	7.3	13
6	Computational analysis of shortâ€range surfaceâ€directed polymerizationâ€induced phase separation. Canadian Journal of Chemical Engineering, 2021, , .	1.7	2
7	Identification and Model Predictive Control (MPC) of Aqueous Polyvinyl Alcohol Degradation in UV/H2O2 Photochemical Reactors. Journal of Polymers and the Environment, 2021, 29, 2572-2584.	<b>5.</b> O	6
8	From Field to Bottle: Water Footprint Estimation in the Winery Industry. Environmental Footprints and Eco-design of Products and Processes, 2021, , 103-136.	1.1	2
9	Long-Range Surface-Directed Polymerization-Induced Phase Separation: A Computational Study. Polymers, 2021, 13, 256.	4.5	3
10	Modeling PVA degradation in a continuous photochemical reactor using experimental step testing and process identification. Journal of Environmental Chemical Engineering, 2021, 9, 104983.	6.7	4
11	Environmental and Exergetic Analysis of Large-Scale Production of Citric Acid-Coated Magnetite Nanoparticles via Computer-Aided Process Engineering Tools. ACS Omega, 2021, 6, 3644-3658.	3.5	3
12	Recent Advances in Dynamic Modeling and Process Control of PVA Degradation by Biological and Advanced Oxidation Processes: A Review on Trends and Advances. Environments - MDPI, 2021, 8, 116.	3.3	9
13	Nonlinear System Identification for Aqueous PVA Degradation in a Continuous UV/H <sub>2</sub> O <sub>2</sub> Tubular Photoreactor. Industrial & Degradation in a Continuous Research, 2021, 60, 1302-1315.	3.7	2
14	Preventive measures pertaining to COVID-19 in swimming pools and hot springs in Europe, Canada, United States, and Colombia. , 2021, , .		0
15	Winery wastewater management and treatment in the Niagara Region of Ontario, Canada: A review and analysis of current regional practices and treatment performance. Canadian Journal of Chemical Engineering, 2020, 98, 5-24.	1.7	17
16	Characterising winery wastewater composition to optimise treatment and reuse. Australian Journal of Grape and Wine Research, 2020, 26, 410-416.	2.1	10
17	Comparison of Biobutanol Production Pathways via Acetone–Butanol–Ethanol Fermentation Using a Sustainability Exergy-Based Metric. ACS Omega, 2020, 5, 18710-18730.	3.5	18
18	Application of Artificial Neural Network and Information Entropy Theory to Assess Rainfall Station Distribution: A Case Study from Colombia. Water (Switzerland), 2020, 12, 1973.	2.7	2

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19	Statistical parameter optimization and modeling of photodegradation of methyl orange using a composite photocatalyst prepared by thermal synthesis. Environmental Science and Pollution Research, 2020, 27, 45650-45660.	5.3	6
20	Scientific discussion of selected viruses including COVID-19 in hot springs. , 2020, , .		4
21	Nano mesoporous silica for cancer treatment: ROS-responsive and redox-responsive carriers. Journal of Drug Delivery Science and Technology, 2020, 57, 101510.	3.0	13
22	Photochemical degradation of aqueous artificial sweeteners by <scp>UV</scp> / <scp>H<sub>2</sub>O<sub>2</sub></scp> and their biodegradability studies. Journal of Chemical Technology and Biotechnology, 2020, 95, 2509-2521.	3.2	6
23	Synthesis of FeO@SiO <sub>2</sub> â€"DNA coreâ€"shell engineered nanostructures for rapid adsorption of heavy metals in aqueous solutions. RSC Advances, 2020, 10, 39284-39294.	3.6	11
24	Computer Simulation of Anisotropic Polymeric Materials Using Polymerization-Induced Phase Separation under Combined Temperature and Concentration Gradients. Polymers, 2019, 11, 1076.	4.5	8
25	Experimental Design and Statistical Analysis of AGET ATRP of MMA in Emulsion Polymer Reactor. Macromolecular Reaction Engineering, 2019, 13, 1900006.	1.5	5
26	An assessment of the grey water footprint of winery wastewater in the Niagara Region of Ontario, Canada. Journal of Cleaner Production, 2019, 214, 623-632.	9.3	43
27	Synthesis & crystal structures of four new biochemical active Ni(II) complexes of thiosemicarbazone and isothiosemicarbazone-based ligands: InÂvitro antimicrobial study. Journal of Molecular Structure, 2019, 1181, 287-294.	3 <b>.</b> 6	21
28	Photochemical Kinetic Modeling of Degradation of Aqueous Polyvinyl Alcohol in a UV/H2O2 Photoreactor. Journal of Polymers and the Environment, 2018, 26, 3283-3293.	5.0	9
29	Treatment of mature landfill leachate using hybrid processes of hydrogen peroxide and adsorption in an activated carbon fixed bed column. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 238-243.	1.7	8
30	Photochemical treatment of benzene, toluene, ethylbenzene, and xylenes (BTEX) in aqueous solutions using advanced oxidation processes: Towards a cleaner production in the petroleum refining and petrochemical industries. Journal of Cleaner Production, 2018, 186, 609-617.	9.3	63
31	Photocatalytic degradation of aqueous Methyl Orange using nitrogen-doped TiO 2 photocatalyst prepared by novel method of ultraviolet-assisted thermal synthesis. Journal of Environmental Sciences, 2018, 66, 81-93.	6.1	49
32	Enhancement of photocatalytic activity of titanium dioxide using non-metal doping methods under visible light: a review. International Journal of Environmental Science and Technology, 2018, 15, 2009-2032.	3 <b>.</b> 5	81
33	Photocatalytic Treatment of An Actual Confectionery Wastewater Using Ag/TiO2/Fe2O3: Optimization of Photocatalytic Reactions Using Surface Response Methodology. Catalysts, 2018, 8, 409.	3.5	28
34	Combined UV-C/H <sub>2</sub> O <sub>2</sub> -VUV processes for the treatment of an actual slaughterhouse wastewater. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2017, 52, 314-325.	1.5	14
35	Photocatalytic efficiency of Fe 2 O 3 /TiO 2 for the degradation of typical dyes in textile industries: Effects of calcination temperature and UV-assisted thermal synthesis. Journal of Environmental Management, 2017, 196, 487-498.	7.8	80
36	Treatment of actual slaughterhouse wastewater by combined anaerobic–aerobic processes for biogas generation and removal of organics and nutrients: An optimization study towards a cleaner production in the meat processing industry. Journal of Cleaner Production, 2017, 141, 278-289.	9.3	76

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37	Single†and twoâ€step procedures of <scp>AGET</scp> emulsion <scp>ATRP</scp> of methyl methacrylate in a wellâ€mixed batch reactor. Journal of Applied Polymer Science, 2017, 134, 45308.	2.6	7
38	Effects of hydrogen peroxide feeding strategies on the photochemical degradation of polyvinyl alcohol. Environmental Technology (United Kingdom), 2016, 37, 2731-2742.	2.2	15
39	Degradation of aqueous methylene blue using an external loop airlift sonophotoreactor: Statistical analysis and optimization. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 722-735.	1.7	2
40	Treatment of an actual slaughterhouse wastewater by integration of biological and advanced oxidation processes: Modeling, optimization, and cost-effectiveness analysis. Journal of Environmental Management, 2016, 182, 651-666.	7.8	54
41	Modification of TiO2 to enhance photocatalytic degradation of organics in aqueous solutions. Journal of Environmental Chemical Engineering, 2016, 4, 4072-4082.	6.7	41
42	A traffic noise model for road intersections in the city of Cartagena de Indias, Colombia. Transportation Research, Part D: Transport and Environment, 2016, 47, 149-161.	6.8	20
43	Photochemical Degradation of Aqueous Polyvinyl Alcohol in a Continuous UV/H2O2 Process: Experimental and Statistical Analysis. Journal of Polymers and the Environment, 2016, 24, 72-83.	5.0	30
44	Modeling organic matter and nitrogen removal from domestic wastewater in a pilot-scale vertical subsurface flow constructed wetland. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 414-424.	1.7	6
45	Photochemical degradation of an actual slaughterhouse wastewater by continuous UV/H 2 O 2 photoreactor with recycle. Journal of Environmental Chemical Engineering, 2016, 4, 719-732.	6.7	35
46	A traffic noise model for road intersections in the city of Cartagena de Indias, Colombia. , 2016, 47, 149-149.		1
47	Slaughterhouse Wastewater Characterization and Treatment: An Economic and Public Health Necessity of the Meat Processing Industry in Ontario, Canada. Journal of Geoscience and Environment Protection, 2016, 04, 175-186.	0.5	47
48	Assessing the performance of uv/H <sub>2</sub> O <sub>2</sub> as a pretreatment process in TOC removal of an actual petroleum refinery wastewater and its inhibitory effects on activated sludge. Canadian Journal of Chemical Engineering, 2015, 93, 798-807.	1.7	36
49	Effect of rheological parameters on non-ideal flows in the continuous-flow mixing of biopolymer solutions. Chemical Engineering Research and Design, 2015, 100, 126-134.	5.6	22
50	Slaughterhouse wastewater characteristics, treatment, and management in the meat processing industry: A review on trends and advances. Journal of Environmental Management, 2015, 161, 287-302.	7.8	282
51	Sonophotolytic degradation of synthetic pharmaceutical wastewater: Statistical experimental design and modeling. Journal of Environmental Management, 2015, 150, 128-137.	7.8	62
52	Optimisation of photoâ€Fentonâ€like degradation of aqueous polyacrylic acid using Boxâ€Behnken experimental design. Canadian Journal of Chemical Engineering, 2014, 92, 97-108.	1.7	24
53	A statistical experimental design approach for photochemical degradation of aqueous polyacrylic acid using photo-Fenton-like process. Polymer Degradation and Stability, 2014, 110, 492-497.	5.8	14
54	Cost-effectiveness analysis of TOC removal from slaughterhouse wastewater using combined anaerobic–aerobic and UV/H2O2 processes. Journal of Environmental Management, 2014, 134, 145-152.	7.8	72

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55	Tomography images to analyze the deformation of the cavern in the continuousâ€flow mixing of nonâ€Newtonian fluids. AICHE Journal, 2014, 60, 315-331.	3.6	14
56	Photoreactor scale-up for degradation of aqueous poly(vinyl alcohol) using UV/H2O2 process. Chemical Engineering Journal, 2014, 245, 133-142.	12.7	58
57	Pharmaceutical wastewater treatment using granular activated carbon and UV/H <sub>2</sub> O <sub>2</sub> processes: Experimental analysis and modelling. Canadian Journal of Chemical Engineering, 2014, 92, 1163-1173.	1.7	10
58	Combination of sonophotolysis and aerobic activated sludge processes for treatment of synthetic pharmaceutical wastewater. Chemical Engineering Journal, 2014, 255, 411-423.	12.7	43
59	Experimental study of polyvinyl alcohol degradation in aqueous solution by UV/H2O2 process. Polymer Degradation and Stability, 2014, 103, 75-82.	5.8	58
60	Characterization of the continuous-flow mixing of non-Newtonian fluids using the ratio of residence time to batch mixing time. Chemical Engineering Research and Design, 2013, 91, 1223-1234.	5.6	18
61	Using Tomography to Characterize the Mixing of Nonâ€Newtonian Fluids with a Maxblend Impeller. Chemical Engineering and Technology, 2013, 36, 687-695.	1.5	10
62	Photoassisted Fenton-like degradation of aqueous poly(acrylic acid): From mechanistic kinetic model to CFD modeling. Chemical Engineering Research and Design, 2013, 91, 2617-2629.	5.6	27
63	Combined anaerobic-aerobic and UV/H <sub>2</sub> O <sub>2</sub> processes for the treatment of synthetic slaughterhouse wastewater. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 1122-1135.	1.7	43
64	Automated image analysis of Euglena gracilis Klebs (Euglenophyta) for measuring sublethal effects of three model contaminants. Water Science and Technology, 2012, 66, 1708-1715.	2.5	1
65	Photolytic treatment of organic constituents and bacterial pathogens in secondary effluent of synthetic slaughterhouse wastewater. Chemical Engineering Research and Design, 2012, 90, 1335-1350.	5.6	53
66	Optimization of aqueous p-aminophenol degradation by external-loop airlift sonophotoreactor using response surface methodology. Chemical Engineering Research and Design, 2012, 90, 1221-1234.	5.6	13
67	Free-Radical-Induced Degradation of Aqueous Polyethylene Oxide by UV/H <sub>2</sub> O <sub>2</sub> : Experimental Design, Reaction Mechanisms, and Kinetic Modeling. Industrial & Engineering Chemistry Research, 2012, 51, 14980-14993.	3.7	36
68	Kinetic study of photodegradation of water soluble polymers. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgB	「/Qverlocl 2.4	2 19 Tf 50 22
69	Photoreactor design and CFD modelling of a UV/H <sub>2</sub> O <sub>2</sub> process for distillery wastewater treatment. Canadian Journal of Chemical Engineering, 2012, 90, 719-729.	1.7	24
70	CFD analysis of twoâ€phase turbulent flow in internal airlift reactors. Canadian Journal of Chemical Engineering, 2012, 90, 1612-1631.	1.7	26
71	Effect of impeller type on continuousâ€flow mixing of nonâ€Newtonian fluids in stirred vessels through dynamic tests. Canadian Journal of Chemical Engineering, 2012, 90, 290-298.	1.7	14
72	Improving the dynamic performance of continuous-flow mixing of pseudoplastic fluids possessing yield stress using Maxblend impeller. Chemical Engineering Research and Design, 2012, 90, 514-523.	5.6	29

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73	Using an external-loop airlift sonophotoreactor to enhance the biodegradability of aqueous sulfadiazine solution. Separation and Purification Technology, 2012, 90, 173-181.	7.9	21
74	Utilization of multiple organisms in a proposed early-warning biomonitoring system for real-time detection of contaminants: preliminary results and modeling. Journal of Hazardous Materials, 2012, 219-220, 95-102.	12.4	8
75	Dynamic Performance of Continuous-Flow Mixing of Pseudoplastic Fluids Exhibiting Yield Stress in Stirred Reactors. Industrial & Engineering Chemistry Research, 2011, 50, 9377-9389.	3.7	22
76	Nonlinear Modeling for the Degradation of Aqueous Azo Dyes by Combined Advanced Oxidation Processes Using Artificial Neural Networks. Chemical Product and Process Modeling, 2011, 6, .	0.9	3
77	Evaluation of low-copy genetic targets for waterborne bacterial pathogen detection via qPCR. Water Research, 2011, 45, 3378-3388.	11.3	26
78	Correlation and prediction of azo dye degradation by nonlinear least-square regression in combined ozonation and ultrasonolysis processes. Water Quality Research Journal of Canada, 2011, 46, 250-258.	2.7	7
79	Slaughterhouse wastewater treatment by combined anaerobic baffled reactor and UV/H2O2 processes. Chemical Engineering Research and Design, 2011, 89, 1136-1143.	5.6	84
80	Study of solid–liquid mixing in agitated tanks through electrical resistance tomography. Chemical Engineering Science, 2010, 65, 1374-1384.	3.8	123
81	Recent Achievements in Combination of Ultrasonolysis and Other Advanced Oxidation Processes for Wastewater Treatment. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	13
82	CFD Modeling of Metronidazole Degradation in Water by the UV/H <sub>2</sub> O <sub>2</sub> Process in Single and Multilamp Photoreactors. Industrial & Engineering Chemistry Research, 2010, 49, 5367-5382.	3.7	32
83	Study of Solidâ^'Liquid Mixing in Agitated Tanks through Computational Fluid Dynamics Modeling. Industrial & Dynamics Modeling. Industrial & Dynamics Modeling.	3.7	117
84	The Ludwigâ€Soret Effect on the Thermally Induced Phase Separation Process in Polymer Solutions: A Computational Study. Macromolecular Theory and Simulations, 2009, 18, 97-107.	1.4	17
85	Mixing time in an agitated multiâ€kamp cylindrical photoreactor using electrical resistance tomography. Journal of Chemical Technology and Biotechnology, 2008, 83, 1676-1688.	3.2	27
86	Kinetic modeling of aqueous phenol degradation by UV/H <sub>2</sub> O <sub>2</sub> process. International Journal of Chemical Kinetics, 2008, 40, 34-43.	1.6	28
87	Optimization of phenol degradation in a combined photochemical–biological wastewater treatment system. Chemical Engineering Research and Design, 2008, 86, 1243-1252.	5.6	36
88	Aqueous Metronidazole Degradation by UV/H <sub>2</sub> O <sub>2</sub> Process in Single-and Multi-Lamp Tubular Photoreactors: Kinetics and Reactor Design. Industrial & Engineering Chemistry Research, 2008, 47, 6525-6537.	3.7	51
89	Particulates and bacteria removal by ceramic microfiltration, UV photolysis, and their combination. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 895-901.	1.7	14
90	Degradation of aqueous methyltert-butyl ether by photochemical, biological, and their combined processes. International Journal of Photoenergy, 2006, 2006, 1-7.	2.5	14

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91	Pilot-plant study for the photochemical treatment of aqueous linear alkylbenzene sulfonate. Separation and Purification Technology, 2006, 49, 115-121.	7.9	35
92	Combined Photochemical and Biological Processes for the Treatment of Linear Alkylbenzene Sulfonate in Water. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 581-597.	1.7	11
93	Experimental investigation of phenolic wastewater treatment using combined activated carbon and UV processes. Clean Technologies and Environmental Policy, 2005, 7, 177-181.	4.1	14
94	Effects of pilot-plant photochemical pre-treatment (UV/H2O2) on the biodegradability of aqueous linear alkylbenzene sulfonate (LAS). International Journal of Photoenergy, 2005, 7, 169-174.	2.5	14
95	Photocatalytic Treatment of Linear Alkylbenzene Sulfonate (LAS) in Water. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 1003-1012.	1.7	11
96	Photolytic Treatment of Aqueous Linear Alkylbenzene Sulfonate. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 1731-1739.	1.7	14
97	Health effects, environmental impacts, and photochemical degradation of selected surfactants in water. International Journal of Photoenergy, 2004, 6, 115-125.	2.5	83
98	Effects of Photocatalysis on the Biodegradability of Cibacron Brilliant Yellow 3G-P (Reactive Yellow) Tj ETQq0 0 (Environmental Engineering, 2004, 39, 113-126.	O rgBT /Ov 1.7	erlock 10 Tf 50 17
99	Integration of Advanced Oxidation Technologies and Biological Processes: Recent Developments, Trends, and Advances. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2004, 39, 3029-3081.	1.7	59
100	Recent Developments, Characteristics, and Potential Applications of Electrochemical Biosensors. Analytical Sciences, 2004, 20, 1113-1126.	1.6	201
101	Photocatalytic Treatment of Cibacron Brilliant Yellow 3G-P (Reactive Yellow 2 Textile Dye). Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2003, 38, 1903-1914.	1.7	14
102	Preliminary analysis of a tellerette packed-bed photocatalytic reactor. Journal of Environmental Management, 2002, 6, 411-418.	1.7	34
103	Comparison of the photoactivities of two commercial titanium dioxide powders in the degradation of 1,4-dioxane. International Journal of Photoenergy, 2002, 4, 141-146.	2.5	28
104	Photocatalytic degradation of aqueous organic solvents in the presence of hydroxyl radical scavengers. International Journal of Photoenergy, 2001, 3, 187-191.	2.5	73
105	Fiber-Optic Biosensors. Trends and Advances Analytical Sciences, 2000, 16, 677-692.	1.6	124
106	Non-linear parameter estimation for a dynamic model in photocatalytic reaction engineering. Chemical Engineering Science, 2000, 55, 4885-4891.	3.8	22
107	Photocatalytic degradation of aqueous tetrahydrofuran, 1,4-dioxane, and their mixture with TiO2. International Journal of Photoenergy, 2000, 2, 67-80.	2.5	36
108	Slaughterhouse Wastewater: Treatment, Management and Resource Recovery. , 0, , .		33

# ARTICLE IF CITATIONS

109 Kinetic Modeling of Photodegradation of Water-Soluble Polymers in Batch Photochemical Reactor.,

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