List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Recent Developments, Characteristics, and Potential Applications of Electrochemical Biosensors. Analytical Sciences, 2004, 20, 1113-1126.	1.6	201
3	Fiber-Optic Biosensors. Trends and Advances Analytical Sciences, 2000, 16, 677-692.	1.6	124
4	Study of solid–liquid mixing in agitated tanks through electrical resistance tomography. Chemical Engineering Science, 2010, 65, 1374-1384.	3.8	123
5	Study of Solidâ^'Liquid Mixing in Agitated Tanks through Computational Fluid Dynamics Modeling. Industrial & Engineering Chemistry Research, 2010, 49, 4426-4435.	3.7	117
6	Slaughterhouse wastewater treatment by combined anaerobic baffled reactor and UV/H2O2 processes. Chemical Engineering Research and Design, 2011, 89, 1136-1143.	5.6	84
7	Health effects, environmental impacts, and photochemical degradation of selected surfactants in water. International Journal of Photoenergy, 2004, 6, 115-125.	2.5	83
8	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.	3.5	81
9	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
10	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
11	Photocatalytic degradation of aqueous organic solvents in the presence of hydroxyl radical scavengers. International Journal of Photoenergy, 2001, 3, 187-191.	2.5	73
12	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
13	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
14	Sonophotolytic degradation of synthetic pharmaceutical wastewater: Statistical experimental design and modeling. Journal of Environmental Management, 2015, 150, 128-137.	7.8	62
15	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
16	Photoreactor scale-up for degradation of aqueous poly(vinyl alcohol) using UV/H2O2 process. Chemical Engineering Journal, 2014, 245, 133-142.	12.7	58
17	Experimental study of polyvinyl alcohol degradation in aqueous solution by UV/H2O2 process. Polymer Degradation and Stability, 2014, 103, 75-82.	5.8	58
18	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

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19	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
20	Aqueous Metronidazole Degradation by UV/H ₂ O ₂ Process in Single-and Multi-Lamp Tubular Photoreactors: Kinetics and Reactor Design. Industrial & Engineering Chemistry Research, 2008, 47, 6525-6537.	3.7	51
21	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
22	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
23	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
24	Combined anaerobic-aerobic and UV/H ₂ O ₂ 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
25	Combination of sonophotolysis and aerobic activated sludge processes for treatment of synthetic pharmaceutical wastewater. Chemical Engineering Journal, 2014, 255, 411-423.	12.7	43
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	Modification of TiO2 to enhance photocatalytic degradation of organics in aqueous solutions. Journal of Environmental Chemical Engineering, 2016, 4, 4072-4082.	6.7	41
28	Photocatalytic degradation of aqueous tetrahydrofuran, 1,4-dioxane, and their mixture with TiO2. International Journal of Photoenergy, 2000, 2, 67-80.	2.5	36
29	Optimization of phenol degradation in a combined photochemical–biological wastewater treatment system. Chemical Engineering Research and Design, 2008, 86, 1243-1252.	5.6	36
30	Free-Radical-Induced Degradation of Aqueous Polyethylene Oxide by UV/H ₂ O ₂ : Experimental Design, Reaction Mechanisms, and Kinetic Modeling. Industrial & Engineering Chemistry Research, 2012, 51, 14980-14993.	3.7	36
31	Assessing the performance of uv/H ₂ O ₂ 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
32	Pilot-plant study for the photochemical treatment of aqueous linear alkylbenzene sulfonate. Separation and Purification Technology, 2006, 49, 115-121.	7.9	35
33	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
34	Preliminary analysis of a tellerette packed-bed photocatalytic reactor. Journal of Environmental Management, 2002, 6, 411-418.	1.7	34
35	Slaughterhouse Wastewater: Treatment, Management and Resource Recovery. , 0, , .		33
36	CFD Modeling of Metronidazole Degradation in Water by the UV/H ₂ O ₂ Process in Single and Multilamp Photoreactors. Industrial & Engineering Chemistry Research, 2010, 49, 5367-5382.	3.7	32

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37	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
38	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
39	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
40	Kinetic modeling of aqueous phenol degradation by UV/H ₂ O ₂ process. International Journal of Chemical Kinetics, 2008, 40, 34-43.	1.6	28
41	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
42	Mixing time in an agitated multiâ€lamp cylindrical photoreactor using electrical resistance tomography. Journal of Chemical Technology and Biotechnology, 2008, 83, 1676-1688.	3.2	27
43	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
44	Evaluation of low-copy genetic targets for waterborne bacterial pathogen detection via qPCR. Water Research, 2011, 45, 3378-3388.	11.3	26
45	CFD analysis of twoâ€phase turbulent flow in internal airlift reactors. Canadian Journal of Chemical Engineering, 2012, 90, 1612-1631.	1.7	26
46	Photoreactor design and CFD modelling of a UV/H ₂ O ₂ process for distillery wastewater treatment. Canadian Journal of Chemical Engineering, 2012, 90, 719-729.	1.7	24
47	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
48	Non-linear parameter estimation for a dynamic model in photocatalytic reaction engineering. Chemical Engineering Science, 2000, 55, 4885-4891.	3.8	22
49	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
50	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
51	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
52	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.	3.6	21
53	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
54	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

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55	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
56	Effects of Photocatalysis on the Biodegradability of Cibacron Brilliant Yellow 3G-P (Reactive Yellow) Tj ETQqO Environmental Engineering, 2004, 39, 113-126.	0 0 rgBT /Ov 1.7	erlock 10 Tf 5 17
57	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
58	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
59	Effects of hydrogen peroxide feeding strategies on the photochemical degradation of polyvinyl alcohol. Environmental Technology (United Kingdom), 2016, 37, 2731-2742.	2.2	15
60	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
61	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
62	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
63	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
64	Degradation of aqueous methyltert-butyl ether by photochemical, biological, and their combined processes. International Journal of Photoenergy, 2006, 2006, 1-7.	2.5	14
65	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
66	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
67	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
68	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
69	Combined UV-C/H ₂ O ₂ -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
70	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
71	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
72	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

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73	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
74	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
75	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
76	Synthesis of FeO@SiO ₂ –DNA core–shell engineered nanostructures for rapid adsorption of heavy metals in aqueous solutions. RSC Advances, 2020, 10, 39284-39294.	3.6	11
77	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
78	Pharmaceutical wastewater treatment using granular activated carbon and UV/H ₂ O ₂ processes: Experimental analysis and modelling. Canadian Journal of Chemical Engineering, 2014, 92, 1163-1173.	1.7	10
79	Characterising winery wastewater composition to optimise treatment and reuse. Australian Journal of Grape and Wine Research, 2020, 26, 410-416.	2.1	10
80	Kinetic study of photodegradation of water soluble polymers. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgB	「Qverlock 2:4	19 Tf 50 46
81	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
82	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
83	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
84	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
85	Computer Simulation of Anisotropic Polymeric Materials Using Polymerization-Induced Phase Separation under Combined Temperature and Concentration Gradients. Polymers, 2019, 11, 1076.	4.5	8
86	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
87	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
88	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
	Treatment of Actual Minor Mectowater by Fonton like Dragger Optimization to Improve Organia		

89	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
90	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

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91	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
92	Photochemical degradation of aqueous artificial sweeteners by <scp>UV</scp> / <scp>H₂O₂</scp> and their biodegradability studies. Journal of Chemical Technology and Biotechnology, 2020, 95, 2509-2521.	3.2	6
93	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.	5.0	6
94	Experimental Design and Statistical Analysis of AGET ATRP of MMA in Emulsion Polymer Reactor. Macromolecular Reaction Engineering, 2019, 13, 1900006.	1.5	5
95	Scientific discussion of selected viruses including COVID-19 in hot springs. , 2020, , .		4
96	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
97	Seawater transport through quartz pores of coastal aquifers: A molecular dynamics study. Advances in Water Resources, 2022, 161, 104121.	3.8	4
98	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
99	Long-Range Surface-Directed Polymerization-Induced Phase Separation: A Computational Study. Polymers, 2021, 13, 256.	4.5	3
100	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
101	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
102	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
103	Computational analysis of shortâ€range surfaceâ€directed polymerizationâ€induced phase separation. Canadian Journal of Chemical Engineering, 2021, , .	1.7	2
104	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
105	Nonlinear System Identification for Aqueous PVA Degradation in a Continuous UV/H ₂ O ₂ Tubular Photoreactor. Industrial & Engineering Chemistry Research, 2021, 60, 1302-1315.	3.7	2
106	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
107	A traffic noise model for road intersections in the city of Cartagena de Indias, Colombia. , 2016, 47, 149-149.		1
108	Kinetic Modeling of Photodegradation of Water-Soluble Polymers in Batch Photochemical Reactor. , 0, , .		0

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109	Preventive measures pertaining to COVID-19 in swimming pools and hot springs in Europe, Canada, United States, and Colombia. , 2021, , .		0