

Zacharias Frontistis

List of Publications by Year in descending order

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125
papers

4,942
citations

71102

41
h-index

114465

63
g-index

127
all docs

127
docs citations

127
times ranked

4733
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation, mineralization and antibiotic inactivation of amoxicillin by UV-A/TiO ₂ photocatalysis. Journal of Environmental Management, 2012, 98, 168-174.	7.8	274
2	Sono-activated persulfate oxidation of bisphenol A: Kinetics, pathways and the controversial role of temperature. Chemical Engineering Journal, 2015, 280, 623-633.	12.7	182
3	Degradation of antibiotic sulfamethoxazole by biochar-activated persulfate: Factors affecting the activation and degradation processes. Catalysis Today, 2018, 313, 128-133.	4.4	148
4	Erythromycin oxidation and ERY-resistant Escherichia coli inactivation in urban wastewater by sulfate radical-based oxidation process under UV-C irradiation. Water Research, 2015, 85, 346-358.	11.3	126
5	Graphene: A new activator of sodium persulfate for the advanced oxidation of parabens in water. Water Research, 2017, 126, 111-121.	11.3	123
6	Solar photocatalytic degradation of bisphenol A with CuO x /BiVO ₄ : Insights into the unexpectedly favorable effect of bicarbonates. Chemical Engineering Journal, 2017, 318, 39-49.	12.7	112
7	Electrochemical enhancement of solar photocatalysis: Degradation of endocrine disruptor bisphenol-A on Ti/TiO ₂ films. Water Research, 2011, 45, 2996-3004.	11.3	102
8	Kinetics of ethyl paraben degradation by simulated solar radiation in the presence of N-doped TiO ₂ catalysts. Water Research, 2015, 81, 157-166.	11.3	102
9	Activation of sodium persulfate by magnetic carbon xerogels (CX/CoFe) for the oxidation of bisphenol A: Process variables effects, matrix effects and reaction pathways. Water Research, 2017, 124, 97-107.	11.3	102
10	Solar photocatalytic degradation of sulfamethoxazole over tungsten - Modified TiO ₂ . Chemical Engineering Journal, 2017, 318, 143-152.	12.7	92
11	Copper phosphide and persulfate salt: A novel catalytic system for the degradation of aqueous phase micro-contaminants. Applied Catalysis B: Environmental, 2019, 244, 178-187.	20.2	88
12	Photocatalytic (UV-A/TiO ₂) degradation of 17 β -ethynylestradiol in environmental matrices: Experimental studies and artificial neural network modeling. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 240, 33-41.	3.9	80
13	Solar photocatalytic abatement of sulfamethoxazole over Ag ₃ PO ₄ /WO ₃ composites. Applied Catalysis B: Environmental, 2018, 231, 73-81.	20.2	76
14	Environmental sustainability of light-driven processes for wastewater treatment applications. Journal of Cleaner Production, 2018, 182, 8-15.	9.3	74
15	Electrochemical oxidation of pesticide thiamethoxam on boron doped diamond anode: Role of operating parameters and matrix effect. Chemical Engineering Research and Design, 2018, 116, 535-541.	5.6	73
16	BDD anodic oxidation as tertiary wastewater treatment for the removal of emerging micro-pollutants, pathogens and organic matter. Journal of Chemical Technology and Biotechnology, 2011, 86, 1233-1236.	3.2	71
17	Electrochemical oxidation of ammonia (NH ₄ ⁺ /NH ₃) on thermally and electrochemically prepared IrO ₂ electrodes. Electrochimica Acta, 2011, 56, 1361-1365.	5.2	71
18	Magnetic carbon xerogels for the catalytic wet peroxide oxidation of sulfamethoxazole in environmentally relevant water matrices. Applied Catalysis B: Environmental, 2016, 199, 170-186.	20.2	69

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19	Oxidation of bisphenol A in water by heat-activated persulfate. Journal of Environmental Management, 2017, 195, 125-132.	7.8	69
20	Degradation of antibiotic ampicillin on boron-doped diamond anode using the combined electrochemical oxidation - Sodium persulfate process. Journal of Environmental Management, 2018, 223, 878-887.	7.8	69
21	Fast photocatalytic degradation of bisphenol A by Ag ₃ PO ₄ /TiO ₂ composites under solar radiation. Catalysis Today, 2017, 280, 99-107.	4.4	68
22	Photodegradation of ethyl paraben using simulated solar radiation and Ag ₃ PO ₄ photocatalyst. Journal of Hazardous Materials, 2017, 323, 478-488.	12.4	66
23	Synthesis and characterization of CoOx/BiVO ₄ photocatalysts for the degradation of propyl paraben. Journal of Hazardous Materials, 2019, 372, 52-60.	12.4	63
24	Sonodegradation of 17 β -ethynylestradiol in environmentally relevant matrices: Laboratory-scale kinetic studies. Ultrasonics Sonochemistry, 2012, 19, 77-84.	8.2	61
25	Utilizing solar energy for the purification of olive mill wastewater using a pilot-scale photocatalytic reactor after coagulation-flocculation. Water Research, 2014, 60, 28-40.	11.3	61
26	Photocatalytic degradation of bisphenol A over Rh/TiO ₂ suspensions in different water matrices. Catalysis Today, 2017, 284, 59-66.	4.4	61
27	Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO ₂ /ITO film anode and BDD cathode. Catalysis Today, 2013, 209, 74-78.	4.4	59
28	Fast degradation of estrogen hormones in environmental matrices by photo-Fenton oxidation under simulated solar radiation. Chemical Engineering Journal, 2011, 178, 175-182.	12.7	58
29	Boron-doped diamond electrooxidation of ethyl paraben: The effect of electrolyte on by-products distribution and mechanisms. Journal of Environmental Management, 2017, 195, 148-156.	7.8	58
30	Solar photocatalysis for the abatement of emerging micro-contaminants in wastewater: Synthesis, characterization and testing of various TiO ₂ samples. Applied Catalysis B: Environmental, 2012, 117-118, 283-291.	20.2	57
31	Sonochemical degradation of ethyl paraben in environmental samples: Statistically important parameters determining kinetics, by-products and pathways. Ultrasonics Sonochemistry, 2016, 31, 62-70.	8.2	56
32	Activation of Persulfate by Biochars from Valorized Olive Stones for the Degradation of Sulfamethoxazole. Catalysts, 2019, 9, 419.	3.5	54
33	Correlating the properties of hydrogenated titania to reaction kinetics and mechanism for the photocatalytic degradation of bisphenol A under solar irradiation. Applied Catalysis B: Environmental, 2016, 188, 65-76.	20.2	52
34	Destruction of propyl paraben by persulfate activated with UV-A light emitting diodes. Journal of Environmental Chemical Engineering, 2018, 6, 2992-2997.	6.7	49
35	Solar light-induced degradation of bisphenol-A with TiO ₂ immobilized on Ti. Catalysis Today, 2011, 161, 110-114.	4.4	47
36	On the capacity of ozonation to remove antimicrobial compounds, resistant bacteria and toxicity from urban wastewater effluents. Journal of Hazardous Materials, 2017, 323, 414-425.	12.4	47

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37	Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator. <i>Journal of Environmental Management</i> , 2020, 271, 111022.	7.8	46
38	UV and simulated solar photodegradation of 17 β -ethynylestradiol in secondary-treated wastewater by hydrogen peroxide or iron addition. <i>Catalysis Today</i> , 2015, 252, 84-92.	4.4	45
39	Boron-doped diamond oxidation of amoxicillin pharmaceutical formulation: Statistical evaluation of operating parameters, reaction pathways and antibacterial activity. <i>Journal of Environmental Management</i> , 2017, 195, 100-109.	7.8	45
40	Persulfate activation by modified red mud for the oxidation of antibiotic sulfamethoxazole in water. <i>Journal of Environmental Management</i> , 2020, 270, 110820.	7.8	45
41	Degradation of pesticide thiamethoxam by heat activated and ultrasound activated persulfate: Effect of key operating parameters and the water matrix. <i>Chemical Engineering Research and Design</i> , 2020, 134, 197-207.	5.6	43
42	Experimental and Modeling Studies of the Degradation of Estrogen Hormones in Aqueous TiO ₂ Suspensions under Simulated Solar Radiation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16552-16563.	3.7	42
43	Valorization of steel slag towards a Fenton-like catalyst for the degradation of paraben by activated persulfate. <i>Chemical Engineering Journal</i> , 2019, 360, 728-739.	12.7	41
44	Removal of drug losartan in environmental aquatic matrices by heat-activated persulfate: Kinetics, transformation products and synergistic effects. <i>Chemosphere</i> , 2022, 287, 131952.	8.2	41
45	Wet air oxidation of table olive processing wastewater: Determination of key operating parameters by factorial design. <i>Water Research</i> , 2008, 42, 3591-3600.	11.3	40
46	Removal of Pharmaceuticals from Environmentally Relevant Matrices by Advanced Oxidation Processes (AOPs). <i>Comprehensive Analytical Chemistry</i> , 2013, , 345-407.	1.3	40
47	Electrocoagulation as a Promising Defluoridation Technology from Water: A Review of State of the Art of Removal Mechanisms and Performance Trends. <i>Water (Switzerland)</i> , 2021, 13, 656.	2.7	40
48	Electrochemical treatment of biologically pre-treated dairy wastewater using dimensionally stable anodes. <i>Journal of Environmental Management</i> , 2017, 202, 217-224.	7.8	38
49	Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO ₂ and persulfate: A pilot plant study. <i>Catalysis Today</i> , 2019, 328, 216-222.	4.4	37
50	Oxidation of Sulfamethoxazole by Rice Husk Biochar-Activated Persulfate. <i>Catalysts</i> , 2021, 11, 850.	3.5	37
51	Photocatalytic and photoelectrocatalytic degradation of the drug omeprazole on nanocrystalline titania films in alkaline media: Effect of applied electrical bias on degradation and transformation products. <i>Journal of Hazardous Materials</i> , 2015, 294, 57-63.	12.4	36
52	Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1085-1092.	5.3	34
53	Solar photocatalytic degradation of propyl paraben in Al-doped TiO ₂ suspensions. <i>Catalysis Today</i> , 2018, 313, 148-154.	4.4	33
54	Sulfamethoxazole degradation by the CuOx/persulfate system. <i>Catalysis Today</i> , 2021, 361, 139-145.	4.4	32

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55	Effect of sodium persulfate treatment on the physicochemical properties and catalytic activity of biochar prepared from spent malt rootlets. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105071.	6.7	32
56	Sonochemical oxidation of piroxicam drug: effect of key operating parameters and degradation pathways. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 28-34.	3.2	32
57	Degradation of propyl paraben by activated persulfate using iron-containing magnetic carbon xerogels: investigation of water matrix and process synergy effects. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34801-34810.	5.3	31
58	Degradation of Sulfamethoxazole Using Iron-Doped Titania and Simulated Solar Radiation. <i>Catalysts</i> , 2019, 9, 612.	3.5	31
59	Immobilized Ag ₃ PO ₄ photocatalyst for micro-pollutants removal in a continuous flow annular photoreactor. <i>Catalysis Today</i> , 2019, 328, 223-229.	4.4	31
60	Heat-activated persulfate for the degradation of micropollutants in water: A comprehensive review and future perspectives. <i>Journal of Environmental Management</i> , 2022, 318, 115568.	7.8	31
61	Wastewater Based Epidemiology Perspective as a Faster Protocol for Detecting Coronavirus RNA in Human Populations: A Review with Specific Reference to SARS-CoV-2 Virus. <i>Pathogens</i> , 2021, 10, 1008.	2.8	30
62	Solar Photocatalytic Degradation of Bisphenol A on Immobilized ZnO or TiO ₂ . <i>International Journal of Photoenergy</i> , 2013, 2013, 1-9.	2.5	29
63	Ultraviolet-activated persulfate oxidation of methyl orange: a comparison between artificial neural networks and factorial design for process modelling. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 528-535.	2.9	29
64	Solar light-induced degradation of ethyl paraben with CuO x /BiVO ₄ : Statistical evaluation of operating factors and transformation by-products. <i>Catalysis Today</i> , 2017, 280, 122-131.	4.4	29
65	Degradation of methylparaben by sonocatalysis using a Co-Fe magnetic carbon xerogel. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105045.	8.2	29
66	Sonochemical degradation of trimethoprim in water matrices: Effect of operating conditions, identification of transformation products and toxicity assessment. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105139.	8.2	29
67	Solar photocatalytic decomposition of ethyl paraben in zinc oxide suspensions. <i>Catalysis Today</i> , 2017, 280, 139-148.	4.4	28
68	Photocatalytic degradation of 17 β -ethynylestradiol in environmental samples by ZnO under simulated solar radiation. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1051-1058.	3.2	27
69	Utilization of raw red mud as a source of iron activating the persulfate oxidation of paraben. <i>Chemical Engineering Research and Design</i> , 2018, 119, 311-319.	5.6	26
70	Degradation of antihypertensive drug valsartan in water matrices by heat and heat/ultrasound activated persulfate: Kinetics, synergy effect and transformation products. <i>Chemical Engineering Journal Advances</i> , 2020, 4, 100062.	5.2	26
71	Electrochemical oxidation of butyl paraben on boron doped diamond in environmental matrices and comparison with sulfate radical-AOP. <i>Journal of Environmental Management</i> , 2020, 269, 110783.	7.8	26
72	Use of Electrocoagulation for Treatment of Pharmaceutical Compounds in Water/Wastewater: A Review Exploring Opportunities and Challenges. <i>Water (Switzerland)</i> , 2021, 13, 2105.	2.7	25

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73	Carbocatalytic activation of persulfate for the removal of drug diclofenac from aqueous matrices. <i>Catalysis Today</i> , 2020, 355, 937-944.	4.4	24
74	Heterogeneous activation of persulfate by lanthanum strontium cobaltite for sulfamethoxazole degradation. <i>Catalysis Today</i> , 2021, 361, 130-138.	4.4	24
75	Degradation of the nonsteroidal anti-inflammatory drug piroxicam from environmental matrices with UV-activated persulfate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 378, 17-23.	3.9	23
76	A hybrid system comprising an aerobic biological process and electrochemical oxidation for the treatment of black table olive processing wastewaters. <i>International Biodeterioration and Biodegradation</i> , 2016, 109, 104-112.	3.9	22
77	Degradation of the Nonsteroidal Anti-Inflammatory Drug Piroxicam by Iron Activated Persulfate: The Role of Water Matrix and Ultrasound Synergy. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2600.	2.6	22
78	Recent Trends in Pharmaceuticals Removal from Water Using Electrochemical Oxidation Processes. <i>Environments - MDPI</i> , 2021, 8, 85.	3.3	22
79	Degradation of ethyl paraben by heat-activated persulfate oxidation: statistical evaluation of operating factors and transformation pathways. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1073-1084.	5.3	21
80	Photocatalytic performance of Ag ₂ O towards sulfamethoxazole degradation in environmental samples. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103177.	6.7	21
81	Copper phosphide promoted BiVO ₄ photocatalysts for the degradation of sulfamethoxazole in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104340.	6.7	21
82	Treatment of real industrial-grade dye solutions and printing ink wastewater using a novel pilot-scale hydrodynamic cavitation reactor. <i>Journal of Environmental Management</i> , 2021, 297, 113301.	7.8	21
83	Solar photocatalytic decomposition of estrogens over immobilized zinc oxide. <i>Catalysis Today</i> , 2013, 209, 66-73.	4.4	20
84	Coupling Persulfate-Based AOPs: A Novel Approach for Piroxicam Degradation in Aqueous Matrices. <i>Water (Switzerland)</i> , 2020, 12, 1530.	2.7	20
85	Photocatalytic Evaluation of Ag ₂ CO ₃ for Ethylparaben Degradation in Different Water Matrices. <i>Water (Switzerland)</i> , 2020, 12, 1180.	2.7	19
86	Photoelectrocatalytic vs. Photocatalytic Degradation of Organic Water Born Pollutants. <i>Catalysts</i> , 2018, 8, 455.	3.5	18
87	Sustainable vs. Conventional Approach for Olive Oil Wastewater Management: A Review of the State of the Art. <i>Water (Switzerland)</i> , 2022, 14, 1695.	2.7	18
88	Screening of heterogeneous catalysts for the activated persulfate oxidation of sulfamethoxazole in aqueous matrices. Does the matrix affect the selection of catalyst?. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2425-2432.	3.2	17
89	On the Performance of a Sustainable Rice Husk Biochar for the Activation of Persulfate and the Degradation of Antibiotics. <i>Catalysts</i> , 2021, 11, 1303.	3.5	17
90	Effectiveness of tertiary treatment processes in removing different classes of emerging contaminants from domestic wastewater. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, .	6.0	17

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91	Sonocatalytic degradation of butylparaben in aqueous phase over Pd/C nanoparticles. Environmental Science and Pollution Research, 2019, 26, 11905-11919.	5.3	16
92	Electrochemical Degradation of Piroxicam on a Boron-Doped Diamond Anode: Investigation of Operating Parameters and Ultrasound Synergy. ChemElectroChem, 2019, 6, 841-847.	3.4	16
93	Electrochemical behaviour of ammonia (NH ₄ ⁺ /NH ₃) on electrochemically grown anodic iridium oxide film (AIROF) electrode. Electrochemistry Communications, 2009, 11, 1590-1592.	4.7	15
94	Production of hydrogen peroxide with a photocatalytic fuel cell and its application to UV/H ₂ O ₂ degradation of dyes. Chemical Engineering Journal Advances, 2021, 6, 100109.	5.2	15
95	Modelling of sonochemical processes in water treatment. Water Science and Technology, 2007, 55, 47-52.	2.5	14
96	Comparison of different TiO ₂ samples as photocatalyst for the degradation of a mixture of four commercial pesticides. Journal of Chemical Technology and Biotechnology, 2014, 89, 1259-1264.	3.2	14
97	Removal of antibiotics in a parallel-plate thin-film-photocatalytic reactor: Process modeling and evolution of transformation by-products and toxicity. Journal of Environmental Sciences, 2017, 60, 114-122.	6.1	14
98	Advanced oxidation processes for the treatment of winery wastewater: a review and future perspectives. Journal of Chemical Technology and Biotechnology, 2021, 96, 2436-2450.	3.2	13
99	Impact of water matrix on the photocatalytic removal of pharmaceuticals by visible light active materials. Current Opinion in Green and Sustainable Chemistry, 2021, 28, 100445.	5.9	12
100	Treatment of printing ink wastewater using a continuous flow electrocoagulation reactor. Journal of Environmental Management, 2022, 314, 115033.	7.8	12
101	Thermally activated persulfate oxidation of ampicillin: Kinetics, transformation products and ecotoxicity. Science of the Total Environment, 2022, 846, 157378.	8.0	12
102	The role of operating parameters and irradiation on the electrochemical degradation of tetracycline on boron doped diamond anode in environmentally relevant matrices. Journal of Chemical Technology and Biotechnology, 2018, 93, 3648-3655.	3.2	11
103	Solar light-induced photocatalytic degradation of methylparaben by $\text{g-C}_3\text{N}_4$ in different water matrices. Journal of Chemical Technology and Biotechnology, 2020, 95, 2811-2821.	3.2	11
104	Lanthanum Nickel Oxide: An Effective Heterogeneous Activator of Sodium Persulfate for Antibiotics Elimination. Catalysts, 2020, 10, 1373.	3.5	11
105	Combined activation of persulfate by biochars and artificial light for the degradation of sulfamethoxazole in aqueous matrices. Journal of the Taiwan Institute of Chemical Engineers, 2022, 136, 104440.	5.3	11
106	Porous CoNi _{1-x} TiO ₃ nanorods for solar photocatalytic degradation of ethyl paraben. Journal of Materiomics, 2020, 6, 788-799.	5.7	10
107	Sonoelectrochemical Degradation of Propyl Paraben: An Examination of the Synergy in Different Water Matrices. International Journal of Environmental Research and Public Health, 2020, 17, 2621.	2.6	10
108	Solar light induced photocatalytic removal of sulfamethoxazole from water and wastewater using BiOCl photocatalyst. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2021, 56, 963-972.	1.7	10

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109	Sorption of two common antihypertensive drugs onto polystyrene microplastics in water matrices. <i>Science of the Total Environment</i> , 2022, 837, 155786.	8.0	10
110	Simultaneous removal of estrogens and pathogens from secondary treated wastewater by solar photocatalytic treatment. <i>Global Nest Journal</i> , 2014, 16, 543-552.	0.1	9
111	Photocatalytic Degradation of Valsartan by MoS ₂ /BiOCl Heterojunctions. <i>Catalysts</i> , 2021, 11, 650.	3.5	8
112	Destruction of valsartan using electrochemical and electrochemical/persulfate process. Kinetics, identification of degradation pathway and application in aqueous matrices. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106265.	6.7	8
113	Using Sawdust Derived Biochar as a Novel 3D Particle Electrode for Micropollutants Degradation. <i>Water (Switzerland)</i> , 2022, 14, 357.	2.7	8
114	Ozonation of Landfill Leachates: Treatment Optimization by Factorial Design. <i>Journal of Advanced Oxidation Technologies</i> , 2008, 11, .	0.5	7
115	Pilot-scale hybrid system combining hydrodynamic cavitation and sedimentation for the decolorization of industrial inks and printing ink wastewater. <i>Journal of Environmental Management</i> , 2022, 302, 114108.	7.8	7
116	Removal of cibacron black commercial dye with heat- or iron-activated persulfate: statistical evaluation of key operating parameters on decolorization and degradation by-products. <i>Desalination and Water Treatment</i> , 2016, 57, 2616-2625.	1.0	6
117	Electrochemical Oxidation of Pharmaceuticals on a Pt@SnO ₂ /Ti Electrode. <i>Electrocatalysis</i> , 2022, 13, 363-377.	3.0	6
118	Solar light induced photocatalytic degradation of sulfamethoxazole by ZnWO ₄ /CNs nanocomposites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114108.	3.9	6
119	New Trends in Environmental Catalytic Technologies for Water Remediation. <i>Water (Switzerland)</i> , 2021, 13, 571.	2.7	4
120	Design, Energy, Environmental and Cost Analysis of an Integrated Collector Storage Solar Water Heater Based on Multi-Criteria Methodology. <i>Energies</i> , 2022, 15, 1673.	3.1	3
121	Printing ink wastewater treatment using combined hydrodynamic cavitation and pH fixation. <i>Journal of Environmental Management</i> , 2022, 317, 115404.	7.8	3
122	Current and Future Trends in Environmental Electrochemistry for Wastewater Treatment. <i>Water (Switzerland)</i> , 2022, 14, 1817.	2.7	3
123	Advanced oxidation processes for wastewater treatment. , 2017, , 131-143.		2
124	Electrochemical Recovery to Overcome Direct Osmosis Concentrate-Bearing Lead: Optimization of Treatment Process via RSM-CCD. <i>Water (Switzerland)</i> , 2021, 13, 3136.	2.7	2
125	Advanced oxidation processes for wastewater treatment. , 2020, , 131-143.		0