

Fuyi Cui

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

5,920
citations

57631

44
h-index

76769

74
g-index

115
all docs

115
docs citations

115
times ranked

5964
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on the fate of quinolone antibiotics in three drinking water treatment plants of China. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 170-180.	1.0	2
2	Plastic leachates lead to long-term toxicity in fungi and promote biodegradation of heterocyclic dye. <i>Science of the Total Environment</i> , 2022, 806, 150538.	3.9	9
3	Comparative study on bisphenols oxidation via TiO ₂ photocatalytic activation of peroxymonosulfate: Effectiveness, mechanism and pathways. <i>Journal of Hazardous Materials</i> , 2022, 424, 127434.	6.5	22
4	Comparative evaluation of the mechanisms of toxicity of graphene oxide and graphene oxide quantum dots to blue-green algae <i>Microcystis aeruginosa</i> in the aquatic environment. <i>Journal of Hazardous Materials</i> , 2022, 425, 127898.	6.5	29
5	Tailoring S-vacancy concentration changes the type of the defect and photocatalytic activity in ZFS. <i>Journal of Hazardous Materials</i> , 2022, 428, 128215.	6.5	9
6	Efficient reductive and oxidative decomposition of haloacetic acids by the vacuum-ultraviolet/sulfite system. <i>Water Research</i> , 2022, 210, 117974.	5.3	29
7	Mineralization, characteristics variation, and removal mechanism of algal extracellular organic matter during vacuum ultraviolet/ozone process. <i>Science of the Total Environment</i> , 2022, 820, 153298.	3.9	3
8	Localized interfacial activation effect within interconnected porous photothermal matrix to promote solar-driven water evaporation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10548-10556.	5.2	13
9	Synergy of feed-side aeration and super slippery interface in membrane distillation for enhanced water flux and scaling mitigation. <i>Water Research</i> , 2022, 215, 118246.	5.3	21
10	A light-enhanced Fe^{2+} -FeOOH nanowires/polyaniline anode for improved electricity generation performance in microbial fuel cells. <i>Chemosphere</i> , 2022, 296, 133994.	4.2	4
11	Selective adsorption of anions on hydrotalcite-like compounds derived from drinking water treatment residuals. <i>Chemosphere</i> , 2022, 300, 134508.	4.2	4
12	Perylenetetracarboxylic acid nanosheets with internal electric fields and anisotropic charge migration for photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2022, 13, 2067.	5.8	99
13	The Role of Extracellular Polymeric Substances in the Toxicity Response of Anaerobic Granule Sludge to Different Metal Oxide Nanoparticles. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 5371.	1.2	3
14	Degradation mechanisms of cyanobacteria neurotoxin β -N-methylamino-L-alanine (BMAA) during UV254/H ₂ O ₂ process: Kinetics and pathways. <i>Chemosphere</i> , 2022, 302, 134939.	4.2	10
15	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification. <i>Environmental Science & Technology</i> , 2022, 56, 9797-9805.	4.6	25
16	Abatement of Organic Contaminants by Mn(VII)/TEMPOs: Effects of TEMPOs Structure, Organic Contaminant Speciation, and Active Oxidizing Species. <i>Environmental Science & Technology</i> , 2022, 56, 10361-10371.	4.6	9
17	Degradation of neurotoxin β -N-methylamino-L-alanine by UV254 activated persulfate: Kinetic model and reaction pathways. <i>Chemical Engineering Journal</i> , 2021, 404, 127041.	6.6	13
18	Three-dimensional porous photo-thermal fiber felt with salt-resistant property for high efficient solar distillation. <i>Chinese Chemical Letters</i> , 2021, 32, 1442-1446.	4.8	23

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19	Removal of aqueous organic contaminants using submerged ceramic hollow fiber membrane coupled with peroxymonosulfate oxidation: Comparison of CuO catalyst dispersed in the feed water and immobilized on the membrane. <i>Journal of Membrane Science</i> , 2021, 618, 118707.	4.1	27
20	Role of TEMPO in Enhancing Permanganate Oxidation toward Organic Contaminants. <i>Environmental Science & Technology</i> , 2021, 55, 7681-7689.	4.6	29
21	Î±-FeOOH nanowires loaded on carbon paper anodes improve the performance of microbial fuel cells. <i>Chemosphere</i> , 2021, 273, 129669.	4.2	23
22	Activating the Basal Plane of 2H-MoS ₂ by Doping Phosphor for Enhancement in the Photocatalytic Degradation of Organic Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38586-38594.	4.0	14
23	Formation of N-nitrosodimethylamine (NDMA) from tetracycline antibiotics during the disinfection of ammonium-containing water: The role of antibiotics dissociation and active chlorine species. <i>Science of the Total Environment</i> , 2021, 798, 149071.	3.9	10
24	CuO@NiO Nanoparticles Derived from Metal-Organic Framework Precursors for the Deoxygenation of Fatty Acids. <i>ACS Sustainable Chemistry & Engineering</i> , 2021, 9, 15612-15622.	3.2	13
25	Structure-dependent catalysis of cuprous oxides in peroxymonosulfate activation via nonradical pathway with a high oxidation capacity. <i>Journal of Hazardous Materials</i> , 2020, 385, 121518.	6.5	101
26	A sustainable strategy for effective regulation of aerobic granulation: Augmentation of the signaling molecule content by cultivating AHL-producing strains. <i>Water Research</i> , 2020, 169, 115193.	5.3	69
27	Impact factors on the production of Î²-methylamino-L-alanine (BMAA) by cyanobacteria. <i>Chemosphere</i> , 2020, 243, 125355.	4.2	15
28	Photothermal Janus Anode with Photosynthesisâ€‘Shielding Effect for Activating Lowâ€‘Temperature Biological Wastewater Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 1909432.	7.8	14
29	A stable and easily prepared copper oxide catalyst for degradation of organic pollutants by peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2020, 387, 121995.	6.5	119
30	Copper substituted zinc ferrite with abundant oxygen vacancies for enhanced ciprofloxacin degradation via peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2020, 390, 121998.	6.5	90
31	Effects and mechanism on the removal of neurotoxin Î²-N-methylamino-l-alanine (BMAA) by chlorination. <i>Science of the Total Environment</i> , 2020, 703, 135513.	3.9	3
32	Interfacial catalytic oxidation for membrane fouling mitigation during algae-laden water filtration: Higher efficiency without algae integrity loss. <i>Separation and Purification Technology</i> , 2020, 251, 117366.	3.9	13
33	Significant acceleration of Fe ²⁺ / peroxydisulfate oxidation towards sulfisoxazole by addition of MoS ₂ . <i>Environmental Research</i> , 2020, 188, 109692.	3.7	27
34	Recent Developments and Future Challenges of Hydrogels as Draw Solute in Forward Osmosis Process. <i>Water (Switzerland)</i> , 2020, 12, 692.	1.2	35
35	Insight into the size effect of Pd nanoparticles on the catalytic reduction of nitrite in water over Pd/C catalysts. <i>Environmental Science: Nano</i> , 2020, 7, 2117-2129.	2.2	16
36	Low-Tortuosity Water Microchannels Boosting Energy Utilization for High Water Flux Solar Distillation. <i>Environmental Science & Technology</i> , 2020, 54, 5150-5158.	4.6	89

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37	Effects of pH and electrolytes on the sheet-to-sheet aggregation mode of graphene oxide in aqueous solutions. <i>Environmental Science: Nano</i> , 2020, 7, 984-995.	2.2	13
38	Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesis-Enhancing Effect for Activating Low-Temperature Biological Wastewater Treatment (<i>Adv. Funct. Mater.</i> 7/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070045.	7.8	1
39	Remarkable phosphate removal and recovery from wastewater by magnetically recyclable La ₂ O ₃ /Fe ₃ O ₄ nanocomposites. <i>Journal of Hazardous Materials</i> , 2020, 397, 122597.	6.5	71
40	Integrated process for membrane fouling mitigation and organic pollutants removal using copper oxide modified ceramic hollow fiber membrane with in-situ peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2020, 396, 125289.	6.6	28
41	Thermodynamic and dynamic dual regulation of Bi ₂ O ₃ /CO ₃ /Bi ₅ O ₇ enabling high-flux photogenerated charge migration for enhanced visible-light-driven photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10252-10259.	5.2	45
42	Selective adsorption of organic pigments on inorganically modified mesoporous biochar and its mechanism based on molecular structure. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 21-30.	5.0	50
43	pH-Dependent adsorption of aromatic compounds on graphene oxide: An experimental, molecular dynamics simulation and density functional theory investigation. <i>Journal of Hazardous Materials</i> , 2020, 395, 122680.	6.5	48
44	A mechanically durable, sustained corrosion-resistant photothermal nanofiber membrane for highly efficient solar distillation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22296-22306.	5.2	60
45	Investigation of Cleaning Strategies for an Antifouling Thin-Film Composite Forward Osmosis Membrane for Treatment of Polymer-Flooding Produced Water. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 994-1003.	1.8	19
46	Selective and enhanced adsorption of the monosubstituted benzenes on the Fe-modified MCM-41: Contribution of the substituent groups. <i>Chemosphere</i> , 2019, 237, 124546.	4.2	12
47	Air bubbling for membrane fouling control in a submerged direct forward osmosis system for municipal wastewater treatment. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 684-692.	1.2	7
48	Multifunctional CuO Nanowire Mesh for Highly Efficient Solar Evaporation and Water Purification. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5476-5485.	3.2	141
49	One-step nanotopography construction by polyaniline polymerization for a superhydrophobic nanofibrous membrane towards direct contact membrane distillation. <i>Environmental Science: Nano</i> , 2019, 6, 2553-2564.	2.2	20
50	Easily scaled-up photo-thermal membrane with structure-dependent auto-cleaning feature for high-efficient solar desalination. <i>Journal of Membrane Science</i> , 2019, 586, 222-230.	4.1	87
51	Development of CuO coated ceramic hollow fiber membrane for peroxymonosulfate activation: a highly efficient singlet oxygen-dominated oxidation process for bisphenol a degradation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117783.	10.8	217
52	Calcium-Carboxyl Intra-bridging during Interfacial Polymerization: A Novel Strategy to Improve Antifouling Performance of Thin Film Composite Membranes. <i>Environmental Science & Technology</i> , 2019, 53, 4371-4379.	4.6	64
53	New insights into the organic fouling mechanism of an <i>in situ</i> Ca ²⁺ modified thin film composite forward osmosis membrane. <i>RSC Advances</i> , 2019, 9, 38227-38234.	1.7	10
54	Origami system for efficient solar driven distillation in emergency water supply. <i>Chemical Engineering Journal</i> , 2019, 356, 869-876.	6.6	87

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55	Cobalt silicate hydroxide nanosheets in hierarchical hollow architecture with maximized cobalt active site for catalytic oxidation. <i>Chemical Engineering Journal</i> , 2019, 359, 79-87.	6.6	136
56	Effect of light intensity on the characteristics of algal-bacterial granular sludge and the role of N-acyl-homoserine lactone in the granulation. <i>Science of the Total Environment</i> , 2019, 659, 372-383.	3.9	78
57	Polyamidoamine dendrimer grafted forward osmosis membrane with superior ammonia selectivity and robust antifouling capacity for domestic wastewater concentration. <i>Water Research</i> , 2019, 153, 1-10.	5.3	105
58	Dual-biomimetic superwetting silica nanofibrous membrane for oily water purification. <i>Journal of Membrane Science</i> , 2019, 572, 73-81.	4.1	52
59	Enhanced aerobic granulation by applying the low-intensity direct current electric field via reactive iron anode. <i>Water Research</i> , 2019, 149, 159-168.	5.3	49
60	Highly porous zirconium-crosslinked graphene oxide/alginate aerogel beads for enhanced phosphate removal. <i>Chemical Engineering Journal</i> , 2019, 359, 779-789.	6.6	121
61	Dual-Bioinspired Design for Constructing Membranes with Superhydrophobicity for Direct Contact Membrane Distillation. <i>Environmental Science & Technology</i> , 2018, 52, 3027-3036.	4.6	130
62	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018, 28, 1705295.	7.8	370
63	Molecular Dynamics Simulation of Natural Organic Matter-TiO ₂ Nanoparticle Interaction in Aqueous Environment: Effects of Ca ²⁺ and Na ⁺ Ions. <i>Environmental Engineering Science</i> , 2018, 35, 846-855.	0.8	2
64	Interfacial electronic effects of palladium nanocatalysts on the by-product ammonia selectivity during nitrite catalytic reduction. <i>Environmental Science: Nano</i> , 2018, 5, 338-349.	2.2	24
65	Nitrogen doped hierarchically structured porous carbon fibers with an ultrahigh specific surface area for removal of organic dyes. <i>RSC Advances</i> , 2018, 8, 19116-19124.	1.7	10
66	Breathable and asymmetrically superwetable Janus membrane with robust oil-fouling resistance for durable membrane distillation. <i>Journal of Membrane Science</i> , 2018, 563, 602-609.	4.1	137
67	Wrinkle- and Edge-Adsorption of Aromatic Compounds on Graphene Oxide as Revealed by Atomic Force Microscopy, Molecular Dynamics Simulation, and Density Functional Theory. <i>Environmental Science & Technology</i> , 2018, 52, 7689-7697.	4.6	84
68	Magnetic nitrogen-doped nanocarbons for enhanced metal-free catalytic oxidation: Integrated experimental and theoretical investigations for mechanism and application. <i>Chemical Engineering Journal</i> , 2018, 354, 507-516.	6.6	162
69	Theoretical insight into the adsorption of aromatic compounds on graphene oxide. <i>Environmental Science: Nano</i> , 2018, 5, 2357-2367.	2.2	76
70	Calcinable Polymer Membrane with Revivability for Efficient Oily Water Remediation. <i>Advanced Materials</i> , 2018, 30, e1801870.	11.1	176
71	A novel flake-ball-like magnetic Fe ₃ O ₄ /MnO ₂ meso-porous nano-composite: Adsorption of fluorine and effect of water chemistry. <i>Chemosphere</i> , 2018, 209, 173-181.	4.2	33
72	Efficient As(III) removal by magnetic CuO-Fe ₃ O ₄ nanoparticles through photo-oxidation and adsorption under light irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 495, 168-177.	5.0	81

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73	Effect of Continuous Direct Recycling of Combined Residual Streams on Water Quality at the Pilot Scale in Different Seasons. <i>Journal of Environmental Engineering, ASCE</i> , 2017, 143, .	0.7	4
74	Impact of chitosan and polyacrylamide on formation of carbonaceous and nitrogenous disinfection by-products. <i>Chemosphere</i> , 2017, 178, 26-33.	4.2	14
75	Adsorption-intensified degradation of organic pollutants over bifunctional Fe^{II} -Fe@carbon nanofibres. <i>Environmental Science: Nano</i> , 2017, 4, 302-306.	2.2	61
76	Robust phosphate capture over inorganic adsorbents derived from lanthanum metal organic frameworks. <i>Chemical Engineering Journal</i> , 2017, 326, 1086-1094.	6.6	154
77	Three-component mixed matrix organic/inorganic hybrid membranes for pervaporation separation of ethanol-water mixture. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	11
78	Understanding the pH-dependent adsorption of ionizable compounds on graphene oxide using molecular dynamics simulations. <i>Environmental Science: Nano</i> , 2017, 4, 1935-1943.	2.2	26
79	Optimization of the Determination Method for Dissolved Cyanobacterial Toxin BMAA in Natural Water. <i>Analytical Chemistry</i> , 2017, 89, 10991-10998.	3.2	23
80	New Insight into the Aggregation of Graphene Oxide Using Molecular Dynamics Simulations and Extended Derjaguin-Landau-Verwey-Overbeek Theory. <i>Environmental Science & Technology</i> , 2017, 51, 9674-9682.	4.6	63
81	Magnetic Fe-Co crystal doped hierarchical porous carbon fibers for removal of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18071-18080.	5.2	111
82	Linear solvation energy relationship to predict the adsorption of aromatic contaminants on graphene oxide. <i>Chemosphere</i> , 2017, 185, 826-832.	4.2	16
83	Gravity driven ultrafast removal of organic contaminants across catalytic superwetting membranes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25266-25275.	5.2	45
84	Understanding the Roles of Solution Chemistries and Functionalization on the Aggregation of Graphene-Based Nanomaterials Using Molecular Dynamic Simulations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13888-13897.	1.5	24
85	Heterogeneous activation of peroxymonosulfate by amorphous boron for degradation of bisphenol S. <i>Journal of Hazardous Materials</i> , 2017, 322, 532-539.	6.5	218
86	Exposure and health risk assessment of PM 2.5-bound trace metals during winter in university campus in Northeast China. <i>Science of the Total Environment</i> , 2017, 576, 628-636.	3.9	41
87	Ultrahigh adsorption capacity of anionic dyes with sharp selectivity through the cationic charged hybrid nanofibrous membranes. <i>Chemical Engineering Journal</i> , 2017, 313, 957-966.	6.6	160
88	Adsorption of Cu^{2+} and Zn^{2+} by extracellular polymeric substances (EPS) in different sludges: Effect of EPS fractional polarity on binding mechanism. <i>Journal of Hazardous Materials</i> , 2017, 321, 473-483.	6.5	152
89	Enhanced adsorption of the cationic dyes in the spherical CuO/meso-silica nano composite and impact of solution chemistry. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 192-200.	5.0	90
90	Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Materials</i> , 2016, 28, 270-275.	11.1	92

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91	Utilization of artificial recharged effluent as makeup water for industrial cooling system: corrosion and scaling. <i>Water Science and Technology</i> , 2016, 73, 2559-2569.	1.2	3
92	Degradation of 4-chlorophenol in a Fenton-like system using Au@Fe ₃ O ₄ magnetic nanocomposites as the heterogeneous catalyst at near neutral conditions. <i>RSC Advances</i> , 2016, 6, 53080-53088.	1.7	23
93	Transformation and speciation of typical heavy metals in soil aquifer treatment system during long time recharging with secondary effluent: Depth distribution and combination. <i>Chemosphere</i> , 2016, 165, 100-109.	4.2	56
94	La ₂ O ₃ nanoparticle/polyacrylonitrile nanofibers for bacterial inactivation based on phosphate control. <i>RSC Advances</i> , 2016, 6, 99353-99360.	1.7	27
95	Effective combination of permanganate composite chemicals (PPC) and biological aerated filter (BAF) to pre-treat polluted drinking water source. <i>Desalination and Water Treatment</i> , 2016, 57, 28240-28249.	1.0	4
96	Carbon nanofiber matrix with embedded LaCO ₃ OH synchronously captures phosphate and organic carbon to starve bacteria. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12799-12806.	5.2	36
97	Microstructured macroporous adsorbent composed of polypyrrole modified natural corncob-core sponge for Cr(VI) removal. <i>RSC Advances</i> , 2016, 6, 59292-59298.	1.7	19
98	Application of ultra-sonication, acid precipitation and membrane filtration for co-recovery of protein and humic acid from sewage sludge. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 327-335.	3.3	17
99	Impact of recycling alum sludge on coagulation of low-turbidity source waters. <i>Desalination and Water Treatment</i> , 2016, 57, 6732-6739.	1.0	19
100	Sedimentation of TiO ₂ nanoparticles in aqueous solutions: influence of pH, ionic strength, and adsorption of humic acid. <i>Desalination and Water Treatment</i> , 2016, 57, 18817-18824.	1.0	18
101	Evaluation of drinking water treatment combined filter backwash water recycling technology based on comet and micronucleus assay. <i>Journal of Environmental Sciences</i> , 2016, 42, 61-70.	3.2	9
102	A synergistic strategy for nanoparticle/nanofiber composites towards p-nitrophenol catalytic hydrogenation. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 1012-1017.	1.3	5
103	Dissolved organic matter removal during coal slag additive soil aquifer treatment for secondary effluent recharging: Contribution of aerobic biodegradation. <i>Journal of Environmental Management</i> , 2015, 156, 158-166.	3.8	12
104	Combining physico-chemical analysis with a <i>Daphnia magna</i> bioassay to evaluate a recycling technology for drinking water treatment plant waste residuals. <i>Ecotoxicology and Environmental Safety</i> , 2015, 122, 368-376.	2.9	15
105	Molecular Dynamics Study of the Aggregation Process of Graphene Oxide in Water. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26712-26718.	1.5	115
106	Highly Efficient Phosphate Scavenger Based on Well-Dispersed La(OH) ₃ Nanorods in Polyacrylonitrile Nanofibers for Nutrient-Starvation Antibacteria. <i>ACS Nano</i> , 2015, 9, 9292-9302.	7.3	177
107	A MD Simulation and Analysis for Aggregation Behaviors of Nanoscale Zero-Valent Iron Particles in Water via MS. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	0.8	4
108	One-step synthesis of noble metal/oxide nanocomposites with tunable size of noble metal particles and their size-dependent catalytic activity. <i>RSC Advances</i> , 2014, 4, 30624-30629.	1.7	19

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109	Simultaneous bioelectrochemical degradation of algae sludge and energy recovery in microbial fuel cells. RSC Advances, 2012, 2, 7228.	1.7	23
110	One pot synthesis of tunable Fe ₃ O ₄ @MnO ₂ core-shell nanoplates and their applications for water purification. Journal of Materials Chemistry, 2012, 22, 9052.	6.7	118
111	One-pot synthesis of Ag@Fe ₃ O ₄ nanocomposites in the absence of additional reductant and its potent antibacterial properties. Journal of Materials Chemistry, 2012, 22, 13891.	6.7	53
112	Notice of Retraction: A Comparison of a Blue-Green Algal Organic Matter and Humic Substances on the Formation of THMs during Chlorination. , 2011, , .		0
113	Effect of Ammonia and pH Combinations on the Formation of Ozonation and Chlorination By-Products in Bromide-Containing Water. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
114	A new multi-agent reinforcement learning algorithm and its application in wastewater reclamation by IBAC reactor. , 0, , .		1
115	Importance of Surface Carboxyl Groups on Biofouling Development and Control for Thin Film Composite (TFC) Polyamide Membranes. ACS ES&T Engineering, 0, , .	3.7	2