

Lifen Liu

List of Publications by Year in descending order

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217
papers

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47004

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Current progress of Pt and Pt-based electrocatalysts used for fuel cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 15-30.	4.9	375
2	Characterization of Cake Layer in Submerged Membrane Bioreactor. <i>Environmental Science & Technology</i> , 2007, 41, 4065-4070.	10.0	230
3	Applications of tannic acid in membrane technologies: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 284, 102267.	14.7	181
4	Preparation of polyaniline/reduced graphene oxide nanocomposite and its application in adsorption of aqueous Hg(II). <i>Chemical Engineering Journal</i> , 2013, 229, 460-468.	12.7	165
5	Facile and green synthetic strategy of birnessite-type MnO ₂ with high efficiency for airborne benzene removal at low temperatures. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 569-582.	20.2	140
6	A novel way to rapidly monitor microplastics in soil by hyperspectral imaging technology and chemometrics. <i>Environmental Pollution</i> , 2018, 238, 121-129.	7.5	138
7	Covalent assembly of 3D graphene/polypyrrole foams for oil spill cleanup. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3446.	10.3	135
8	Hydrophobic modification of polyurethane foam for oil spill cleanup. <i>Marine Pollution Bulletin</i> , 2012, 64, 1648-1653.	5.0	127
9	Minute electric field reduced membrane fouling and improved performance of membrane bioreactor. <i>Separation and Purification Technology</i> , 2012, 86, 106-112.	7.9	124
10	Thin film nanocomposite reverse osmosis membrane incorporated with UiO-66 nanoparticles for enhanced boron removal. <i>Journal of Membrane Science</i> , 2019, 580, 101-109.	8.2	123
11	Identification of intermediates and transformation pathways derived from photocatalytic degradation of five antibiotics on ZnIn ₂ S ₄ . <i>Chemical Engineering Journal</i> , 2016, 304, 826-840.	12.7	121
12	Removal of aqueous Hg(II) and Cr(VI) using phytic acid doped polyaniline/cellulose acetate composite membrane. <i>Journal of Hazardous Materials</i> , 2014, 280, 20-30.	12.4	120
13	Photocatalytic degradation of 2,4-dichlorophenol using nanoscale Fe/TiO ₂ . <i>Chemical Engineering Journal</i> , 2012, 181-182, 189-195.	12.7	113
14	Superwetting Oil/Water Separation Membrane Constructed from In Situ Assembled Metal-Phenolic Networks and Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10000-10008.	8.0	113
15	Photocatalytic degradation of 2,4,6-tribromophenol over Fe-doped ZnIn ₂ S ₄ : Stable activity and enhanced debromination. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 89-97.	20.2	108
16	Electro-Fenton degradation of azo dye using polypyrrole/anthraquinonedisulphonate composite film modified graphite cathode in acidic aqueous solutions. <i>Electrochimica Acta</i> , 2008, 53, 5155-5161.	5.2	104
17	Fouling reductions in a membrane bioreactor using an intermittent electric field and cathodic membrane modified by vapor phase polymerized pyrrole. <i>Journal of Membrane Science</i> , 2012, 394-395, 202-208.	8.2	103
18	Integration of bio-electrochemical cell in membrane bioreactor for membrane cathode fouling reduction through electricity generation. <i>Journal of Membrane Science</i> , 2013, 430, 196-202.	8.2	99

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19	Preparation of highly conductive cathodic membrane with graphene (oxide)/PPy and the membrane antifouling property in filtrating yeast suspensions in EMBR. <i>Journal of Membrane Science</i> , 2013, 437, 99-107.	8.2	99
20	Hydrophilic and antibacterial properties of polyvinyl alcohol/4-vinylpyridine graft polymer modified polypropylene non-woven fabric membranes. <i>Journal of Membrane Science</i> , 2009, 345, 223-232.	8.2	82
21	Nanocarbon based composite electrodes and their application in microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12673-12698.	10.3	80
22	Simple and rapid detection of microplastics in seawater using hyperspectral imaging technology. <i>Analitica Chimica Acta</i> , 2019, 1050, 161-168.	5.4	80
23	Polyphenol-metal manipulated nanohybridization of CNT membranes with FeOOH nanorods for high-flux, antifouling and self-cleaning oil/water separation. <i>Journal of Membrane Science</i> , 2020, 600, 117857.	8.2	80
24	Bioinspired synthesis of polyzwitterion/titania functionalized carbon nanotube membrane with superwetting property for efficient oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , 2019, 589, 117257.	8.2	77
25	TiO ₂ and polyvinyl alcohol (PVA) coated polyester filter in bioreactor for wastewater treatment. <i>Water Research</i> , 2012, 46, 1969-1978.	11.3	74
26	The use of BMED for glyphosate recovery from glyphosate neutralization liquor in view of zero discharge. <i>Journal of Hazardous Materials</i> , 2013, 260, 660-667.	12.4	74
27	E-Fenton degradation of MB during filtration with Gr/PPy modified membrane cathode. <i>Chemical Engineering Journal</i> , 2013, 230, 491-498.	12.7	74
28	Performance of carbon fiber cathode membrane with Ca ²⁺ Mn ²⁺ Fe ²⁺ O catalyst in MBR ⁺ MFC for wastewater treatment. <i>Journal of Membrane Science</i> , 2015, 484, 27-34.	8.2	72
29	Significant photocatalytic degradation and electricity generation in the photocatalytic fuel cell (PFC) using novel anodic nanocomposite of Fe, graphene oxide, and titanium phosphate. <i>Electrochimica Acta</i> , 2018, 271, 41-48.	5.2	71
30	Effects of COD/N ratio and DO concentration on simultaneous nitrification and denitrification in an airlift internal circulation membrane bioreactor. <i>Journal of Environmental Sciences</i> , 2008, 20, 933-939.	6.1	69
31	Oleophilic Polyurethane Foams for Oil Spill Cleanup. <i>Procedia Environmental Sciences</i> , 2013, 18, 528-533.	1.4	64
32	Destruction of tetracycline hydrochloride antibiotics by FeOOH/TiO ₂ granular activated carbon as expanded cathode in low-cost MBR/MFC coupled system. <i>Journal of Membrane Science</i> , 2017, 525, 202-209.	8.2	63
33	Highly conductive graphene/PANI-phytic acid modified cathodic filter membrane and its antifouling property in EMBR in neutral conditions. <i>Desalination</i> , 2014, 338, 10-16.	8.2	62
34	Hyperspectral Imaging Based Method for Rapid Detection of Microplastics in the Intestinal Tracts of Fish. <i>Environmental Science & Technology</i> , 2019, 53, 5151-5158.	10.0	62
35	Bimetallic Mo ²⁺ Co nanoparticles anchored on nitrogen-doped carbon for enhanced electrochemical nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9091-9098.	10.3	62
36	Comparison between a sequencing batch membrane bioreactor and a conventional membrane bioreactor. <i>Process Biochemistry</i> , 2006, 41, 87-95.	3.7	61

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37	Conductive and hydrophilic polypyrrole modified membrane cathodes and fouling reduction in MBR. <i>Journal of Membrane Science</i> , 2013, 429, 252-258.	8.2	61
38	Dopamine-induced biomimetic mineralization for in situ developing antifouling hybrid membrane. <i>Journal of Membrane Science</i> , 2018, 560, 47-57.	8.2	61
39	Interaction effects on uptake and toxicity of perfluoroalkyl substances and cadmium in wheat (<i>Triticum aestivum</i> L.) and rapeseed (<i>Brassica campestris</i> L.) from co-contaminated soil. <i>Ecotoxicology and Environmental Safety</i> , 2017, 137, 194-201.	6.0	60
40	Heat treatment of MnCO ₃ : An easy way to obtain efficient and stable MnO ₂ for humid O ₃ decomposition. <i>Applied Surface Science</i> , 2019, 463, 374-385.	6.1	59
41	Cathode membrane fouling reduction and sludge property in membrane bioreactor integrating electrocoagulation and electrostatic repulsion. <i>Separation and Purification Technology</i> , 2012, 100, 44-50.	7.9	57
42	A free-standing 3D nano-composite photo-electrode Ag/ZnO nanorods arrays on Ni foam effectively degrade berberine. <i>Chemical Engineering Journal</i> , 2019, 373, 179-191.	12.7	57
43	Amino-modified hollow mesoporous silica nanospheres-incorporated reverse osmosis membrane with high performance. <i>Journal of Membrane Science</i> , 2019, 581, 168-177.	8.2	57
44	Integration of microbial fuel cell with independent membrane cathode bioreactor for power generation, membrane fouling mitigation and wastewater treatment. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17865-17872.	7.1	52
45	Polydopamine coating Surface modification of polyester filter and fouling reduction. <i>Separation and Purification Technology</i> , 2013, 118, 226-233.	7.9	51
46	Photocatalytic degradation of 2,4,6-tribromophenol on Fe ₂ O ₃ or FeOOH doped ZnIn ₂ S ₄ heterostructure: Insight into degradation mechanism. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 929-939.	20.2	51
47	Coupling the phenolic oxidation capacities of a bacterial consortium and in situ-generated manganese oxides in a moving bed biofilm reactor (MBBR). <i>Water Research</i> , 2019, 166, 115047.	11.3	51
48	Development of a novel proton exchange membrane-free integrated MFC system with electric membrane bioreactor and air contact oxidation bed for efficient and energy-saving wastewater treatment. <i>Bioresource Technology</i> , 2017, 238, 472-483.	9.6	50
49	Engineering superwetting membranes through polyphenol-polycation-metal complexation for high-efficient oil/water separation: From polyphenol to tailored nanostructures. <i>Journal of Membrane Science</i> , 2021, 630, 119310.	8.2	50
50	Tuning the interlayer cations of birnessite-type MnO ₂ to enhance its oxidation ability for gaseous benzene with water resistance. <i>Catalysis Science and Technology</i> , 2018, 8, 5344-5358.	4.1	48
51	Stable photocatalytic activity of immobilized FeO/TiO ₂ /ACF on composite membrane in degradation of 2,4-dichlorophenol. <i>Separation and Purification Technology</i> , 2009, 70, 173-178.	7.9	47
52	Uptake, translocation and biotransformation of N-ethyl perfluorooctanesulfonamide (N-EtFOSA) by hydroponically grown plants. <i>Environmental Pollution</i> , 2018, 235, 404-410.	7.5	47
53	Development of a novel carbon-based conductive membrane with in-situ formed MnO ₂ catalyst for wastewater treatment in bio-electrochemical system (BES). <i>Journal of Membrane Science</i> , 2018, 549, 533-542.	8.2	46
54	Biochar stimulates growth of novel species capable of direct interspecies electron transfer in anaerobic digestion via ethanol-type fermentation. <i>Environmental Research</i> , 2020, 189, 109983.	7.5	46

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55	Performance and microbial community analysis of bioaugmented activated sludge for nitrogen-containing organic pollutants removal. <i>Journal of Environmental Sciences</i> , 2021, 101, 373-381.	6.1	46
56	High flux carbon fiber cloth membrane with thin catalyst coating integrates bio-electricity generation in wastewater treatment. <i>Journal of Membrane Science</i> , 2016, 505, 130-137.	8.2	44
57	Treatment of Oil Wastewater and Electricity Generation by Integrating Constructed Wetland with Microbial Fuel Cell. <i>Materials</i> , 2016, 9, 885.	2.9	43
58	Energy-efficient degradation of rhodamine B in a LED illuminated photocatalytic fuel cell with anodic Ag/AgCl/GO and cathodic ZnIn ₂ S ₄ catalysts. <i>RSC Advances</i> , 2016, 6, 12068-12075.	3.6	43
59	A visible-light-driven photocatalytic fuel cell/peroxymonosulfate (PFC/PMS) system using blue TiO ₂ nanotube arrays (TNA) anode and Cu-Co-WO ₃ cathode for enhanced oxidation of organic pollutant and ammonium nitrogen in real seawater. <i>Applied Catalysis B: Environmental</i> , 2022, 308, 121215.	20.2	43
60	Metal-polyphenol coordination networks: Towards engineering of antifouling hybrid membranes via in situ assembly. <i>Journal of Membrane Science</i> , 2018, 563, 435-446.	8.2	42
61	The performance of Pd-rGO electro-deposited PVDF/carbon fiber cloth composite membrane in MBR/MFC coupled system. <i>Chemical Engineering Journal</i> , 2019, 365, 317-324.	12.7	42
62	A WO ₃ /PPy/ACF modified electrode in electrochemical system for simultaneous removal of heavy metal ion Cu ²⁺ and organic acid. <i>Journal of Hazardous Materials</i> , 2020, 394, 122534.	12.4	42
63	Adsorptive removal of 2,4-DCP from water by fresh or regenerated chitosan/ACF/TiO ₂ membrane. <i>Separation and Purification Technology</i> , 2010, 70, 354-361.	7.9	41
64	Acclimation of a marine microbial consortium for efficient Mn(II) oxidation and manganese containing particle production. <i>Journal of Hazardous Materials</i> , 2016, 304, 434-440.	12.4	41
65	Combining tannic acid-modified support and a green co-solvent for high performance reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020, 595, 117474.	8.2	41
66	Enhancing membrane performance by blending ATRP grafted PMMA@TiO ₂ or PMMA@PSBMA@TiO ₂ in PVDF. <i>Separation and Purification Technology</i> , 2014, 133, 22-31.	7.9	40
67	Characterization of Selenite Reduction by <i>Lysinibacillus</i> sp. ZYM-1 and Photocatalytic Performance of Biogenic Selenium Nanospheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2535-2543.	6.7	40
68	Electricity generating & high efficiency advanced oxidation process including peroxymonosulfate activation in photocatalytic fuel cell. <i>Chemical Engineering Journal</i> , 2019, 378, 122148.	12.7	40
69	Non-LIV based germicidal activity of metal-doped TiO ₂ coating on solid surfaces. <i>Journal of Environmental Sciences</i> , 2007, 19, 745-750.	6.1	39
70	An electrochemical process that uses an FeO/TiO ₂ cathode to degrade typical dyes and antibiotics and a bio-anode that produces electricity. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	6.0	38
71	Phenol removal performance and microbial community shift during pH shock in a moving bed biofilm reactor (MBBR). <i>Journal of Hazardous Materials</i> , 2018, 351, 71-79.	12.4	38
72	Enhancing anaerobic degradation of phenol to methane via solubilizing Fe(III) oxides for dissimilatory iron reduction with organic chelates. <i>Bioresource Technology</i> , 2019, 291, 121858.	9.6	38

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73	Comparative study of Fe ²⁺ /H ₂ O ₂ and Fe ³⁺ /H ₂ O ₂ electro-oxidation systems in the degradation of amaranth using anthraquinone/polypyrrole composite film modified graphite cathode. <i>Journal of Electroanalytical Chemistry</i> , 2009, 632, 154-161.	3.8	37
74	Structure adjustment for enhancing the water permeability and separation selectivity of the thin film composite nanofiltration membrane based on a dendritic hyperbranched polymer. <i>Journal of Membrane Science</i> , 2021, 618, 118455.	8.2	37
75	Electrocatalytic Behavior of the Bare and the Anthraquinonedisulfonate/Polypyrrole Composite Film Modified Graphite Cathodes in the Electro-Fenton System. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8957-8962.	3.1	36
76	A self-biased fuel cell with TiO ₂ /g-C ₃ N ₄ anode catalyzed alkaline pollutant degradation with light and without light—What is the degradation mechanism?. <i>Electrochimica Acta</i> , 2016, 210, 122-129.	5.2	36
77	Fabrication of high efficiency visible light Z-scheme heterostructure photocatalyst g-C ₃ N ₄ /FeO(1%)/TiO ₂ and degradation of rhodamine B and antibiotics. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 463-472.	5.3	35
78	Solvent activation before heat-treatment for improving reverse osmosis membrane performance. <i>Journal of Membrane Science</i> , 2020, 595, 117565.	8.2	35
79	A facile two-step electroreductive synthesis of anthraquinone/graphene nanocomposites as efficient electrocatalyst for O ₂ reduction in neutral medium. <i>Electrochemistry Communications</i> , 2012, 22, 69-72.	4.7	34
80	PPy/AQS (9, 10-anthraquinone-2-sulfonic acid) and PPy/ARS (Alizarin Red's) modified stainless steel mesh as cathode membrane in an integrated MBR/MFC system. <i>Desalination</i> , 2014, 349, 94-101.	8.2	34
81	A microbial fuel cell system with manganese dioxide/titanium dioxide/graphitic carbon nitride coated granular activated carbon cathode successfully treated organic acids industrial wastewater with residual nitric acid. <i>Bioresource Technology</i> , 2020, 304, 122992.	9.6	34
82	Surface modification of reverse osmosis membrane with tannic acid for improving chlorine resistance. <i>Desalination</i> , 2021, 498, 114639.	8.2	34
83	A composite cathode membrane with CoFe ₂ O ₄ -rGO/PVDF on carbon fiber cloth: synthesis and performance in a photocatalysis-assisted MFC-MBR system. <i>Environmental Science: Nano</i> , 2017, 4, 335-345.	4.3	33
84	Heterojunction between anodic TiO ₂ /g-C ₃ N ₄ and cathodic WO ₃ /W nano-catalysts for coupled pollutant removal in a self-biased system. <i>Chinese Journal of Catalysis</i> , 2017, 38, 270-277.	14.0	33
85	Bacteria-Mediated Ultrathin Bi ₂ Se ₃ Nanosheets Fabrication and Their Application in Photothermal Cancer Therapy. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4863-4870.	6.7	32
86	Efficient gas phase VOC removal and electricity generation in an integrated bio-photo-electro-catalytic reactor with bio-anode and TiO ₂ photo-electro-catalytic air cathode. <i>Bioresource Technology</i> , 2018, 270, 554-561.	9.6	32
87	Enhanced Rhodamine B and coking wastewater degradation and simultaneous electricity generation via anodic g-C ₃ N ₄ /FeO(1%)/TiO ₂ and cathodic WO ₃ in photocatalytic fuel cell system under visible light irradiation. <i>Electrochimica Acta</i> , 2019, 298, 430-439.	5.2	32
88	Activation of peroxymonosulfate and recycled effluent filtration over cathode membrane CNFs-CoFe ₂ O ₄ /PVDF in a photocatalytic fuel cell for water pollution control. <i>Chemical Engineering Journal</i> , 2020, 399, 125731.	12.7	32
89	Novel carbon fiber cathode membrane with Fe/Mn/C/F/O elements in bio-electrochemical system (BES) to enhance wastewater treatment. <i>Journal of Power Sources</i> , 2018, 379, 123-133.	7.8	31
90	Comparison of rhizosphere bacterial communities of reed and Suaeda in Shuangtaizi River Estuary, Northeast China. <i>Marine Pollution Bulletin</i> , 2019, 140, 171-178.	5.0	31

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91	Investigating the potentiality of <i>Scenedesmus obliquus</i> and <i>Acinetobacter pittii</i> partnership system and their effects on nutrients removal from synthetic domestic wastewater. <i>Bioresource Technology</i> , 2020, 299, 122571.	9.6	31
92	Sorption behaviors of crude oil on polyethylene microplastics in seawater and digestive tract under simulated real-world conditions. <i>Chemosphere</i> , 2020, 257, 127225.	8.2	30
93	Visible-light photocatalytic fuel cell with Z-scheme g-C ₃ N ₄ /FeO/TiO ₂ anode and WO ₃ cathode efficiently degrades berberine chloride and stably generates electricity. <i>Separation and Purification Technology</i> , 2019, 212, 774-782.	7.9	29
94	Biotransformation and responses of antioxidant enzymes in hydroponically cultured soybean and pumpkin exposed to perfluorooctane sulfonamide (FOSA). <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 669-675.	6.0	28
95	Fate of 6:2 fluorotelomer sulfonic acid in pumpkin (<i>Cucurbita maxima</i> L.) based on hydroponic culture: Uptake, translocation and biotransformation. <i>Environmental Pollution</i> , 2019, 252, 804-812.	7.5	28
96	Mo ₂ C embedded on nitrogen-doped carbon toward electrocatalytic nitrogen reduction to ammonia under ambient conditions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13011-13019.	7.1	28
97	Recovery of L-tryptophan from crystallization wastewater by combined membrane process. <i>Separation and Purification Technology</i> , 2009, 66, 443-449.	7.9	27
98	Sn-doped V ₂ O ₅ nanoparticles as catalyst for fast removal of ammonia in air via PEC and PEC-MFC. <i>Chemical Engineering Journal</i> , 2020, 392, 123738.	12.7	27
99	Wet air oxidation of pretreatment of pharmaceutical wastewater by Cu ²⁺ and [P W O] ^{•-} co-catalyst system. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 366-373.	12.4	26
100	A photo-catalysis and rotating nano-CaCO ₃ dynamic membrane system with Fe-ZnIn ₂ S ₄ efficiently removes halogenated compounds in water. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 62-69.	20.2	26
101	Oxidation of gas phase ammonia via accelerated generation of radical species and synergy of photo electrochemical catalysis with persulfate activation by CuO-Co ₃ O ₄ on cathode electrode. <i>Journal of Hazardous Materials</i> , 2020, 388, 121793.	12.4	26
102	An active electro-Fenton PVDF/SS/PPy cathode membrane can remove contaminant by filtration and mitigate fouling by pairing with sacrificial iron anode. <i>Journal of Membrane Science</i> , 2020, 605, 118100.	8.2	26
103	Enhanced Electrocatalytic Performance of Anthraquinonemonosulfonate-Doped Polypyrrole Composite: Electroanalysis for the Specific Roles of Anthraquinone Derivative and Polypyrrole Layer on Oxygen Reduction Reaction. <i>Electroanalysis</i> , 2011, 23, 355-363.	2.9	25
104	A pilot-scale study on nitrogen removal from dry-spun acrylic fiber wastewater using anammox process. <i>Chemical Engineering Journal</i> , 2013, 222, 32-40.	12.7	25
105	Electro-enhanced chlorine-mediated ammonium nitrogen removal triggered by an optimized catalytic anode for sustainable saline wastewater treatment. <i>Science of the Total Environment</i> , 2021, 776, 146035.	8.0	25
106	Piezo-photocatalytic fuel cell with atomic Fe@MoS ₂ on CFC helical electrode has enhanced peroxydisulfate activation, pollutant degradation and power generation. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120953.	20.2	25
107	Purification and characterization of a cysteine-like protease from the body wall of the sea cucumber <i>Stichopus japonicus</i> . <i>Fish Physiology and Biochemistry</i> , 2007, 33, 181-188.	2.3	24
108	The configuration and application of helical membrane modules in MBR. <i>Journal of Membrane Science</i> , 2012, 392-393, 112-121.	8.2	24

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109	A novel bio-electrochemical system with sand/activated carbon separator, Al anode and bio-anode integrated micro-electrolysis/electro-flocculation cost effectively treated high load wastewater with energy recovery. <i>Bioresource Technology</i> , 2018, 249, 24-34.	9.6	24
110	Pt/TiO ₂ -ZnO in a circuit Photo-electro-catalytically removed HCHO for outstanding indoor air purification. <i>Separation and Purification Technology</i> , 2018, 206, 316-323.	7.9	24
111	Persulfate enhanced pollutants oxidation efficiency and power generation in photocatalytic fuel cell with anodic BiOCl/BiOI and cathodic copper cobalt oxide. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 101, 31-40.	5.3	24
112	Novel ternary p-ZnIn ₂ S ₄ /rGO/n-g-C ₃ N ₄ Z-scheme nanocatalyst with enhanced antibiotic degradation in a dark self-biased fuel cell. <i>Ceramics International</i> , 2020, 46, 9567-9574.	4.8	24
113	Seasonal variations of soil bacterial communities in Suaeda wetland of Shuangtaizi River estuary, Northeast China. <i>Journal of Environmental Sciences</i> , 2020, 97, 45-53.	6.1	24
114	Successful bio-electrochemical treatment of nitrogenous mariculture wastewater by enhancing nitrogen removal via synergy of algae and cathodic photo-electro-catalysis. <i>Science of the Total Environment</i> , 2020, 743, 140738.	8.0	24
115	Synergy of Lithium, Cobalt, and Oxygen Vacancies in Lithium Cobalt Oxide for Airborne Benzene Oxidation: A Concept of Reusing Electronic Wastes for Air Pollutant Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5072-5081.	6.7	23
116	Electrochemical synthesis of ammonia from nitrogen catalyzed by CoMoO ₄ nanorods under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5060-5066.	10.3	23
117	Adsorptive removal and oxidation of organic pollutants from water using a novel membrane. <i>Chemical Engineering Journal</i> , 2010, 156, 553-556.	12.7	22
118	Power generation enhanced by a polyaniline-phytic acid modified filter electrode integrating microbial fuel cell with membrane bioreactor. <i>Separation and Purification Technology</i> , 2014, 132, 213-217.	7.9	22
119	CFC/PVDF/GO-Fe ³⁺ membrane electrode and flow-through system improved E-Fenton performance with a low dosage of aqueous iron. <i>Separation and Purification Technology</i> , 2018, 193, 220-231.	7.9	22
120	Simultaneous Determination of Bisphenol A and Bisphenol S Using Multi-Walled Carbon Nanotubes Modified Electrode. <i>International Journal of Electrochemical Science</i> , 2018, 13, 11906-11922.	1.3	22
121	Polyaniline/reduced graphene oxide/Fe ₃ O ₄ nano-composite for aqueous Hg(II) removal. <i>Water Science and Technology</i> , 2015, 72, 2062-2070.	2.5	21
122	Efficient degradation of rhodamine B with sustainable electricity generation in a photocatalytic fuel cell using visible light Ag ₃ PO ₄ /Fe/GTiP photoanode and ZnIn ₂ S ₄ photocathode. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 137-147.	5.3	21
123	A novel UV-assisted PEC-MFC system with CeO ₂ /TiO ₂ /ACF catalytic cathode for gas phase VOCs treatment. <i>Chemosphere</i> , 2020, 255, 126930.	8.2	21
124	Rotating a helical membrane for turbulence enhancement and fouling reduction. <i>Chemical Engineering Journal</i> , 2012, 181-182, 486-493.	12.7	20
125	Bioremediation of nitrogen-containing organic pollutants using phenol-stimulated activated sludge: performance and microbial community analysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3199-3207.	3.2	20
126	FeMoO ₄ -graphene oxide photo-electro-catalyst for berberine removal and hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19755-19761.	7.1	20

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127	Enhanced removal of copper by electroflocculation and electroreduction in a novel bioelectrochemical system assisted microelectrolysis. <i>Bioresource Technology</i> , 2020, 297, 122507.	9.6	20
128	Polyphenol-engineered superwetting membranes with wrinkled microspherical organizations for high-efficient oil/water separation. <i>Journal of Membrane Science</i> , 2021, 640, 119813.	8.2	20
129	Electrochemical Characteristics and Stability of Poly(1,5-diaminoanthraquinone) in Acidic Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17268-17274.	3.1	19
130	Terylene membrane modification with Polyrotaxanes, TiO ₂ and Polyvinyl alcohol for better antifouling and adsorption property. <i>Journal of Membrane Science</i> , 2009, 333, 110-117.	8.2	19
131	A new helical membrane module for increasing permeate flux. <i>Journal of Membrane Science</i> , 2010, 360, 142-148.	8.2	19
132	Different behaviors of birnessite-type MnO ₂ modified by Ce and Mo for removing carcinogenic airborne benzene. <i>Materials Chemistry and Physics</i> , 2019, 221, 457-466.	4.0	19
133	Cathodes of membrane and packed manganese dioxide/titanium dioxide/graphitic carbon nitride/granular activated carbon promoted treatment of coking wastewater in microbial fuel cell. <i>Bioresource Technology</i> , 2021, 321, 124442.	9.6	19
134	Improved degradation of tetracycline, norfloxacin and methyl orange wastewater treatment with dual catalytic electrode assisted self-sustained Fe ²⁺ electro-Fenton system: Regulatory factors, mechanisms and pathways. <i>Separation and Purification Technology</i> , 2022, 284, 120232.	7.9	19
135	Uptake, elimination and biotransformation of N-ethyl perfluorooctane sulfonamide (N-EtFOSA) by the earthworms (<i>Eisenia fetida</i>) after in vivo and in vitro exposure. <i>Environmental Pollution</i> , 2018, 241, 19-25.	7.5	18
136	Simultaneous desulfurization and denitrification from flue gas by catalytic ozonation combined with NH ₃ /(NH ₄) ₂ S ₂ O ₈ absorption: Mechanisms and recovery of compound fertilizer. <i>Science of the Total Environment</i> , 2020, 706, 136027.	8.0	18
137	Link between characteristics of Fe(III) oxides and critical role in enhancing anaerobic methanogenic degradation of complex organic compounds. <i>Environmental Research</i> , 2021, 194, 110498.	7.5	18
138	Effects of poly-1,5-diaminoanthraquinone morphology on oxygen reduction in acidic solution. <i>Electrochimica Acta</i> , 2009, 54, 2224-2228.	5.2	17
139	Synthesis of quaternary ammonium hydroxide from its halide salt by bipolar membrane electrodialysis (<sc>BMED</sc>): effect of molecular structure of ammonium compounds on the process performance. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 841-850.	3.2	17
140	An ideal visible nanocomposite (Fe/GTiP) photoanode catalyst for treatment of antibiotics in water and simultaneous electricity generation in the photocatalytic fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21703-21715.	7.1	17
141	Catalytic Ozonation of NO with Low Concentration Ozone over Recycled SAPO-34 Supported Iron Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1525-1534.	3.7	17
142	A Study on the Reduction Behaviors of Cr(VI) on Fe ₃ O ₄ /PANI. <i>Procedia Environmental Sciences</i> , 2013, 18, 522-527.	1.4	16
143	Enhanced electricity generation by triclosan and iron anodes in the three-chambered membrane bio-chemical reactor (TC-MBCR). <i>Bioresource Technology</i> , 2013, 147, 409-415.	9.6	16
144	Catalytic and filterable polyester-filter membrane electrode with a high performance carbon foam-Fe-Co catalyst improved electricity generation and waste-water treatment in MBR-MFC. <i>RSC Advances</i> , 2015, 5, 48946-48953.	3.6	16

#	ARTICLE	IF	CITATIONS
145	The Anti-Fouling Effect of Surfactants and Its Application for Electrochemical Detection of Bisphenol A. <i>Journal of the Electrochemical Society</i> , 2018, 165, B814-B823.	2.9	16
146	One-pot synthesis of Ag-H ₃ PW ₁₂ O ₄₀ -LiCoO ₂ composites for thermal oxidation of airborne benzene. <i>Chemical Engineering Journal</i> , 2019, 375, 121956.	12.7	16
147	Complete Genome Sequence of <i>Bacillus cereus</i> CC-1, A Novel Marine Selenate/Selenite Reducing Bacterium Producing Metallic Selenides Nanomaterials. <i>Current Microbiology</i> , 2019, 76, 78-85.	2.2	16
148	Biodegradation characteristics and genomic functional analysis of indole-degrading bacterial strain <i>Acinetobacter</i> sp. JW. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1114-1122.	3.2	16
149	Electricity generation in fuel cell with light and without light and decomposition of tetracycline hydrochloride using g-C ₃ N ₄ /FeO(1%)/TiO ₂ anode and WO ₃ cathode. <i>Chemosphere</i> , 2020, 243, 125425.	8.2	16
150	Microbial coupled photocatalytic fuel cell with a double Z-scheme g-C ₃ N ₄ /ZnO/Bi ₄ O ₅ Br ₂ cathode for the degradation of different organic pollutants. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3781-3790.	7.1	16
151	Self-sustained bioelectrical reduction system assisted iron-manganese doped metal-organic framework membrane for the treatment of electroplating wastewater. <i>Journal of Cleaner Production</i> , 2022, 331, 129972.	9.3	16
152	Hierarchical metal-phenolic-polyplex assembly toward superwetting membrane for high-flux and antifouling oil-water separation. <i>Chinese Chemical Letters</i> , 2022, 33, 3859-3864.	9.0	16
153	Non-LIV germicidal activity of fresh TiO ₂ and Ag/TiO ₂ . <i>Journal of Environmental Sciences</i> , 2009, 21, 700-706.	6.1	15
154	Transcriptomic responses of <i>Artemia salina</i> exposed to an environmentally relevant dose of <i>Alexandrium minutum</i> cells or Gonyautoxin _{2/3} . <i>Chemosphere</i> , 2020, 238, 124661.	8.2	15
155	Preparation of a nano-MnO ₂ surface-modified reduced graphene oxide/PVDF flat sheet membrane for adsorptive removal of aqueous Ni(II). <i>RSC Advances</i> , 2016, 6, 20542-20550.	3.6	14
156	Accumulation, biodegradation and toxicological effects of N-ethyl perfluorooctane sulfonamidoethanol on the earthworms <i>Eisenia fetida</i> exposed to quartz sands. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 138-145.	6.0	14
157	The construction and performance of photocatalytic-fuel-cell with Fe-MoS ₂ /reduced graphene oxide@carbon fiber cloth and ZnFe ₂ O ₄ /Ag/Ag ₃ VO ₄ @carbon felt as photo electrodes. <i>Electrochimica Acta</i> , 2020, 362, 137037.	5.2	14
158	Bioremediation of petroleum hydrocarbons by alkali-tolerant microbial consortia and their community profiles. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 809-817.	3.2	14
159	Simultaneous photocatalytic removal of ammonium and nitrite in water using Ce ³⁺ -Ag ⁺ modified TiO ₂ . <i>Separation and Purification Technology</i> , 2009, 67, 244-248.	7.9	13
160	PVDF layer as a separator on the solution-side of air-cathodes: the electricity generation, fouling and regeneration. <i>RSC Advances</i> , 2015, 5, 52361-52368.	3.6	13
161	Preparation and application of epitope magnetic molecularly imprinted polymers for enrichment of sulfonamide antibiotics in water. <i>Electrophoresis</i> , 2017, 38, 2462-2467.	2.4	13
162	Morphology-tunable tellurium nanomaterials produced by the tellurite-reducing bacterium <i>Lysinibacillus</i> sp. ZYM-1. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20756-20768.	5.3	13

#	ARTICLE	IF	CITATIONS
163	Effects of combined exposure to perfluoroalkyl acids and heavy metals on bioaccumulation and subcellular distribution in earthworms (<i>Eisenia fetida</i>) from co-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29335-29344.	5.3	13
164	Preparation of isoporous membranes from low \bar{M}_w block copolymers via co-assembly with H-bond interacting homopolymers. <i>Journal of Membrane Science</i> , 2019, 589, 117255.	8.2	13
165	Comparative characterization and functional genomic analysis of two <i>Comamonas</i> sp. strains for biodegradation of quinoline. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2017-2026.	3.2	13
166	Environmental decontamination using photocatalytic fuel cells and photoelectrocatalysis in microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3336-3346.	3.2	12
167	Integrating anodic membrane diffusion/biodegradation with UV photolysis, Adsorptive oxidation by activation of peroxymonosulfate over activated carbon fiber based photo cathode in one reactor system for removing toluene gas. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104143.	6.7	12
168	Facile synthesis of alloyed PtNi/CNTs electrocatalyst with enhanced catalytic activity and stability for methanol oxidation. <i>Inorganic Chemistry Communication</i> , 2020, 120, 108130.	3.9	12
169	Toluene recovery from simulated gas effluent using POMS membrane separation technique. <i>Separation and Purification Technology</i> , 2009, 66, 411-416.	7.9	11
170	Sensitive and Selective Electrochemical Sensor Based on Molecularly Imprinted Polypyrrole Hybrid Nanocomposites for Tetrabromobisphenol A Detection. <i>Analytical Letters</i> , 2019, 52, 2506-2523.	1.8	11
171	Operational optimization of air conditioning cooling water system with UF+RO desalination. <i>Desalination</i> , 2010, 251, 53-57.	8.2	10
172	Membrane Modification Using Polydopamine and/or PDA Coated TiO ₂ Nano Particles for Wastewater Treatment. <i>Procedia Engineering</i> , 2012, 44, 1431-1432.	1.2	10
173	Opposite pH-dependent roles of hydroxyl radicals in ozonation and UV photolysis of genistein. <i>Science of the Total Environment</i> , 2020, 709, 136243.	8.0	10
174	Antraquinonedisulfonate Doped Polyaniline as an Acceptor-Donor System for Electrocatalysis of Oxygen Reduction. <i>Electroanalysis</i> , 2009, 21, 1035-1040.	2.9	9
175	Interface modulation of bacteriogenic Ag/AgCl nanoparticles by boosting the catalytic activity for reduction reactions using Co ²⁺ ions. <i>Chemical Communications</i> , 2017, 53, 4946-4949.	4.1	9
176	Toxicity and haemolytic activity of a newly described dinoflagellate, <i>Heterocapsa bohainensis</i> to the rotifer <i>Brachionus plicatilis</i> . <i>Harmful Algae</i> , 2019, 84, 112-118.	4.8	9
177	Theoretical investigation of methanol oxidation on Pt and PtNi catalysts. <i>Ionics</i> , 2020, 26, 1325-1336.	2.4	9
178	Efficient degradation of trimethylamine in gas phase by petal-shaped Co-MoS ₂ catalyst in the photo-electrochemical system. <i>Chemical Engineering Journal</i> , 2021, 405, 127034.	12.7	9
179	Diversity and structure of soil bacterial community in intertidal zone of Daliao River estuary, Northeast China. <i>Marine Pollution Bulletin</i> , 2021, 163, 111965.	5.0	9
180	Construction of a photocatalytic fuel cell using a novel Z-scheme MoS ₂ /rGO/Bi ₂ S ₃ as electrode degraded antibiotic wastewater. <i>Separation and Purification Technology</i> , 2021, 277, 119276.	7.9	9

#	ARTICLE	IF	CITATIONS
181	Development of a detection method based on dielectric spectroscopy for real-time monitoring of meta-cresol contamination in beach-sand. <i>Sensors and Actuators A: Physical</i> , 2017, 268, 16-26.	4.1	8
182	A bio-electrochemical membrane system for more sustainable wastewater treatment with MnO ₂ /PANI modified stainless steel cathode and photosynthetic provision of dissolved oxygen by algae. <i>Water Science and Technology</i> , 2017, 76, 1907-1914.	2.5	8
183	A novel method for preparation of polyaluminum phosphoric sulfate (PAPS) coagulant using SAPO-34 mother liquor: Characterization and coagulation performance. <i>Chemical Engineering Research and Design</i> , 2020, 140, 380-391.	5.6	8
184	Self-sustained recovery of silver with stainless-steel based Cobalt/Molybdenum/Manganese polycrystalline catalytic electrode in bio-electroreduction microbial fuel cell (BEMFC). <i>Journal of Hazardous Materials</i> , 2022, 424, 127664.	12.4	8
185	PMS activation over MoS ₂ /Co _{0.75} Mo ₃ S _{3.75} for RhB pollutant oxidation removal in fuel cell system. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107449.	6.7	8
186	The tubular MFC with carbon tube air-cathode for power generation and N,N-dimethylacetamide treatment. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 762-767.	2.2	7
187	Synergistic multiple active species driven fast estrone oxidation by γ -MnO ₂ in the existence of methanol. <i>Science of the Total Environment</i> , 2021, 761, 143201.	8.0	7
188	Removal of radioactive ions in low-concentration nuclear industry wastewater with carbon-felt based iron/magnesium/zirconium polycrystalline catalytic cathode in a dual-chamber microbial fuel cell. <i>Journal of Power Sources</i> , 2022, 528, 231208.	7.8	7
189	Efficient photocatalytic treatment of sugar mill wastewater with 2%Ag ₃ PO ₄ /Fe/GTiP nanocomposite. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3624-3632.	4.9	6
190	Highly selective colorimetric determination of catechol based on the aggregation-induced oxidase-mimic activity decrease of γ -MnO ₂ . <i>RSC Advances</i> , 2020, 10, 6801-6806.	3.6	6
191	Magnetite drives self-dechlorination of 4-chlorophenol in anoxic aquatic sediments. <i>Chemosphere</i> , 2021, 273, 129668.	8.2	6
192	Catalytic membrane cathode integrated in a proton exchange membrane-free microbial fuel cell for coking wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 132, 104117.	5.3	5
193	Fibrous TiO ₂ prepared by chemical vapor deposition using activated carbon fibers as template via adsorption, hydrolysis and calcinations. <i>Journal of Zhejiang University: Science A</i> , 2008, 9, 981-987.	2.4	4
194	Electrocatalytic Reduction of Oxygen at Anthraquinonedisulfonate/Polypyrrole Composite Film Modified Electrodes and Its Application to the Electrochemical Oxidation of Azo Dye. <i>Electroanalysis</i> , 2009, 21, 2420-2426.	2.9	4
195	Photocatalysis and Rotating Dynamic Membrane Hybrid System with Fe-ZnIn ₂ S ₄ Efficiently Removes 2,4,6-Tribromophenol in Water: Effect of Dynamic Membrane. <i>Procedia Environmental Sciences</i> , 2013, 18, 509-514.	1.4	4
196	Exploring the novel indigenous strains for degrading the crude oil contaminants in soil sample. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 5657-5668.	3.5	4
197	Point-by-point comparisons of permselectivity and fouling-resistance of membranes prepared from blending with di-block and tri-block copolymers. <i>Polymer</i> , 2019, 185, 121949.	3.8	4
198	Molecularly imprinted polymer solid phase extraction coupled with liquid chromatography-high resolution mass spectrometry for the detection of gonyautoxins 2&3 in seawater. <i>Marine Pollution Bulletin</i> , 2020, 157, 111333.	5.0	4

#	ARTICLE	IF	CITATIONS
199	Photocatalytic Removal of Nitrate from Water using FeO/TiO ₂ . , 2008, , .		3
200	Electrochemical Characteristics and Stability of Poly(1,5-diaminoanthraquinone) in Acidic Aqueous Solution. Journal of Physical Chemistry C, 2008, 112, 4018-4018.	3.1	2
201	A novel conductive membrane with <scp>RGO/PVDF</scp> coated on carbon fiber cloth for fouling reduction with electric field in separating polyacrylamide. Journal of Applied Polymer Science, 2016, 133, .	2.6	2
202	A novel two-dimensional polyrotaxane network self-assembled by heterowheel [4]pseudorotaxane. Supramolecular Chemistry, 2017, 29, 176-182.	1.2	2
203	Preparation of gold catalyst by electrodeposition in [BMIm][TfO] ionic liquid electrolyte: an insightful study of theoretical calculations and experiments. Ionics, 2019, 25, 1407-1412.	2.4	2
204	The Antifouling Properties of PVA/PVAm Modified Polyester Membrane. Procedia Engineering, 2012, 44, 1426-1427.	1.2	1
205	Preparation of Highly Conductive Cathodic Membrane with Graphene (Oxide)/PPy and the Membrane Antifouling Property in Filtrating Yeast Suspensions in EMBR. Procedia Engineering, 2012, 44, 1428-1430.	1.2	1
206	Effects of ATRP Grafted PMMAâ€“coâ€“PSBMAâ€“TiO ₂ Nanoâ€“particles on the Property and Performance of PVDF Microfiltration Membranes. Procedia Engineering, 2012, 44, 1932-1933.	1.2	1
207	The reduction of CO ₂ /bicarbonate to ethanol driven by Bio-electrochemical system using reduced graphene oxide modified nickel foam. Separation and Purification Technology, 2022, 280, 119437.	7.9	1
208	Simple heat profiles and biogeochemical patterns for analysis the influence on soil microbial community of plastic-greenhouse and open field condition. Emirates Journal of Food and Agriculture, 0, , 960.	1.0	1
209	Progress on catalytic electrodes and fuel cell systems for industrial wastewater treatment. Chinese Science Bulletin, 2021, 66, 2378-2392.	0.7	1
210	Electroreduction recovery of gold, platinum and palladium and electrooxidation removal of cyanide using a bioelectrochemical system. Bioresource Technology Reports, 2022, 18, 101007.	2.7	1
211	Membrane Bioreactor Coupled with Microbial Fuel Cell for Enhancing Treatment Efficiency and Reducing Energy Consumption. Procedia Engineering, 2012, 44, 273-274.	1.2	0
212	Performance Evaluation in Concentrating PEG Solutions using Forward Osmosis Membrane and Different Draw Solutions. Procedia Engineering, 2012, 44, 1930-1931.	1.2	0
213	Hydrodynamic Modeling of the Helical Membrane Modules. , 2013, , .		0
214	Oxygen Reduction at Carbon Nanotubes (CNTs)/Cobaltous Phthalocyanine (CoPc) and MFC Electricity Generation Affected by Air-Cathode Catalyst Layer Structure. Journal of the Electrochemical Society, 2016, 163, F1209-F1216.	2.9	0
215	Sustainable and continuous removal of trimethylamine in a bioâ€“photoelectrochemical reactor using gâ€“C ₃ N ₄ /TiO ₂ photocathode with power generation. Journal of Chemical Technology and Biotechnology, 2022, 97, 218.	3.2	0
216	Catalytic Electrode Membrane and Applications in Fuel Cell Type Reactors for 3 Phases Pollution Control. ECS Meeting Abstracts, 2019, , .	0.0	0

#	ARTICLE	IF	CITATIONS
217	Theoretical study of the solubility of Pt salts in ionic liquids and deep eutectic solvents. <i>Ionics</i> , 2022, 28, 1985-1997.	2.4	0