

Jinxing

List of Publications by Year in descending order

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95
papers

6,484
citations

44444

50
h-index

75989

78
g-index

95
all docs

95
docs citations

95
times ranked

5708
citing authors

#	ARTICLE	IF	CITATIONS
1	Pd ⁰ /O ₂ interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. <i>Chemical Engineering Journal</i> , 2022, 428, 131194.	6.6	32
2	Recent advances in membrane biofilm reactor for micropollutants removal: Fundamentals, performance and microbial communities. <i>Bioresource Technology</i> , 2022, 343, 126139.	4.8	20
3	Mechanistic insight into pH-dependent adsorption and coprecipitation of chelated heavy metals by in-situ formed iron (oxy)hydroxides. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 864-872.	5.0	17
4	Influence of cations on As(III) removal from simulated groundwaters by double potential step chronoamperometry (DPSC) employing polyvinylferrocene (PVF) functionalized electrodes. <i>Journal of Hazardous Materials</i> , 2022, 424, 127472.	6.5	3
5	Mechanistic insight into the biofilm formation and process performance of a passive aeration ditch (PAD) for decentralized wastewater treatment. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	6
6	Direct Electron Transfer Coordinated by Oxygen Vacancies Boosts Selective Nitrate Reduction to N ₂ on a Co ⁰ /CuO Electroactive Filter. <i>Environmental Science & Technology</i> , 2022, 56, 8673-8681.	4.6	39
7	Phosphate selective recovery by magnetic iron oxide impregnated carbon flow-electrode capacitive deionization (FCDI). <i>Water Research</i> , 2021, 189, 116653.	5.3	61
8	Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. <i>Environmental Science & Technology</i> , 2021, 55, 655-664.	4.6	67
9	Redox-catalysis flow electrode desalination in an organic solvent. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22254-22261.	5.2	18
10	Flow Electrode Capacitive Deionization (FCDI): Recent Developments, Environmental Applications, and Future Perspectives. <i>Environmental Science & Technology</i> , 2021, 55, 4243-4267.	4.6	125
11	Phosphate recovery as vivianite using a flow-electrode capacitive desalination (FCDI) and fluidized bed crystallization (FBC) coupled system. <i>Water Research</i> , 2021, 194, 116939.	5.3	52
12	Mechanistic insights into chemical conditioning by polyacrylamide with different charge densities and its impacts on sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 410, 128425.	6.6	27
13	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N ₂ : Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2021, 55, 10695-10703.	4.6	68
14	Flow anodic oxidation: Towards high-efficiency removal of aqueous contaminants by adsorbed hydroxyl radicals at 1.5 V vs SHE. <i>Water Research</i> , 2021, 200, 117259.	5.3	34
15	Direct electron transfer (DET) processes in a flow anode system—Energy-efficient electrochemical oxidation of phenol. <i>Water Research</i> , 2021, 203, 117547.	5.3	28
16	In situ potential measurement in a flow-electrode CDI for energy consumption estimation and system optimization. <i>Water Research</i> , 2021, 203, 117522.	5.3	22
17	Kinetic Modeling-Assisted Mechanistic Understanding of the Catalytic Ozonation Process Using Cu ⁰ /Al Layered Double Hydroxides and Copper Oxide Catalysts. <i>Environmental Science & Technology</i> , 2021, 55, 13274-13285.	4.6	24
18	Scale-up and Modelling of Flow-electrode CDI Using Tubular Electrodes. <i>Water Research</i> , 2021, 203, 117498.	5.3	18

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19	Making Waves: Zero Liquid Discharge for Sustainable Industrial Effluent Management. <i>Water</i> (Switzerland), 2021, 13, 2852.	1.2	15
20	Flow-electrode capacitive deionization (FCDI) scale-up using a membrane stack configuration. <i>Water Research</i> , 2020, 168, 115186.	5.3	87
21	The impact of absorbents on ammonia recovery in a capacitive membrane stripping system. <i>Chemical Engineering Journal</i> , 2020, 382, 122851.	6.6	51
22	Simultaneous solid-liquid separation and wastewater disinfection using an electrochemical dynamic membrane filtration system. <i>Environmental Research</i> , 2020, 180, 108861.	3.7	10
23	Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. <i>Water Research</i> , 2020, 183, 115969.	5.3	20
24	Selective Arsenic Removal from Groundwaters Using Redox-Active Polyvinylferrocene-Functionalized Electrodes: Role of Oxygen. <i>Environmental Science & Technology</i> , 2020, 54, 12081-12091.	4.6	30
25	Exploring the essential factors of performance improvement in sludge membrane bioreactor technology coupled with symbiotic algae. <i>Water Research</i> , 2020, 181, 115843.	5.3	35
26	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. <i>Environmental Science: Nano</i> , 2020, 7, 2178-2194.	2.2	74
27	Effect of the Presence of Carbon in Ti_4O_7 Electrodes on Anodic Oxidation of Contaminants. <i>Environmental Science & Technology</i> , 2020, 54, 5227-5236.	4.6	58
28	Self-Sustained Visible-Light-Driven Electrochemical Redox Desalination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32788-32796.	4.0	35
29	Evaluation of long-term performance of a continuously operated flow-electrode CDI system for salt removal from brackish waters. <i>Water Research</i> , 2020, 173, 115580.	5.3	68
30	Low energy consumption and mechanism study of redox flow desalination. <i>Chemical Engineering Journal</i> , 2020, 401, 126111.	6.6	75
31	Carbon nanotubes in-situ cross-linking the activated carbon electrode for high-performance capacitive deionization. <i>Separation and Purification Technology</i> , 2020, 239, 116593.	3.9	35
32	Techniques for understanding mechanisms underlying membrane fouling. , 2020, , 81-102.		1
33	Mechanistic insights into the catalytic ozonation process using iron oxide-impregnated activated carbon. <i>Water Research</i> , 2020, 177, 115785.	5.3	63
34	Stimulatory effects on bacteria induced by chemical cleaning cause severe biofouling of membranes. <i>Journal of Water Reuse and Desalination</i> , 2020, 10, 82-94.	1.2	3
35	Modified Double Potential Step Chronoamperometry (DPSC) Method for As(III) Electro-oxidation and Concomitant As(V) Adsorption from Groundwaters. <i>Environmental Science & Technology</i> , 2019, 53, 9715-9724.	4.6	26
36	Water Recovery Rate in Short-Circuited Closed-Cycle Operation of Flow-Electrode Capacitive Deionization (FCDI). <i>Environmental Science & Technology</i> , 2019, 53, 13859-13867.	4.6	57

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37	Integrated Flow-Electrode Capacitive Deionization and Microfiltration System for Continuous and Energy-Efficient Brackish Water Desalination. <i>Environmental Science & Technology</i> , 2019, 53, 13364-13373.	4.6	66
38	Implication of Non-electrostatic Contribution to Deionization in Flow-Electrode CDI: Case Study of Nitrate Removal From Contaminated Source Waters. <i>Frontiers in Chemistry</i> , 2019, 7, 146.	1.8	20
39	Ammonia-Rich Solution Production from Wastewaters Using Chemical-Free Flow-Electrode Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6480-6485.	3.2	80
40	Flow-Electrode CDI Removes the Uncharged $\text{Ca}^{2+}\text{CO}_3^{2-}$ Ternary Complex from Brackish Potable Groundwater: Complex Dissociation, Transport, and Sorption. <i>Environmental Science & Technology</i> , 2019, 53, 2739-2747.	4.6	54
41	Comparison of faradaic reactions in flow-through and flow-by capacitive deionization (CDI) systems. <i>Electrochimica Acta</i> , 2019, 299, 727-735.	2.6	87
42	Capacitive Membrane Stripping for Ammonia Recovery (CapAmm) from Dilute Wastewaters. <i>Environmental Science and Technology Letters</i> , 2018, 5, 43-49.	3.9	111
43	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. <i>Journal of Membrane Science</i> , 2018, 549, 165-172.	4.1	64
44	Reinvestigation of membrane cleaning mechanisms using NaOCl: Role of reagent diffusion. <i>Journal of Membrane Science</i> , 2018, 550, 278-285.	4.1	30
45	Removal of <i>Microcystis aeruginosa</i> and Microcystin-LR using a graphitic-C ₃ N ₄ /TiO ₂ floating photocatalyst under visible light irradiation. <i>Chemical Engineering Journal</i> , 2018, 348, 380-388.	6.6	104
46	Development of an Electrochemical Ceramic Membrane Filtration System for Efficient Contaminant Removal from Waters. <i>Environmental Science & Technology</i> , 2018, 52, 4117-4126.	4.6	110
47	Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. <i>Water Research</i> , 2018, 128, 314-330.	5.3	523
48	Visible-light-driven in situ inactivation of <i>Microcystis aeruginosa</i> with the use of floating g-C ₃ N ₄ heterojunction photocatalyst: Performance, mechanisms and implications. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 83-92.	10.8	93
49	Microbial responses to transient shock loads of quaternary ammonium compounds with different length of alkyl chain in a membrane bioreactor. <i>AMB Express</i> , 2018, 8, 118.	1.4	10
50	Continuous Ammonia Recovery from Wastewaters Using an Integrated Capacitive Flow Electrode Membrane Stripping System. <i>Environmental Science & Technology</i> , 2018, 52, 14275-14285.	4.6	131
51	Applications of membrane bioreactors for water reclamation: Micropollutant removal, mechanisms and perspectives. <i>Bioresource Technology</i> , 2018, 269, 532-543.	4.8	94
52	Short-Circuited Closed-Cycle Operation of Flow-Electrode CDI for Brackish Water Softening. <i>Environmental Science & Technology</i> , 2018, 52, 9350-9360.	4.6	146
53	Analysis of capacitive and electro-dialytic contributions to water desalination by flow-electrode CDI. <i>Water Research</i> , 2018, 144, 296-303.	5.3	135
54	Active chlorine mediated ammonia oxidation revisited: Reaction mechanism, kinetic modelling and implications. <i>Water Research</i> , 2018, 145, 220-230.	5.3	158

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55	Removal of cadmium (II) from aqueous solution: A comparative study of raw attapulgite clay and a reusable wasteâ€“struvite/attapulgite obtained from nutrient-rich wastewater. <i>Journal of Hazardous Materials</i> , 2017, 329, 66-76.	6.5	154
56	Contaminant Removal from Source Waters Using Cathodic Electrochemical Membrane Filtration: Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2017, 51, 2757-2765.	4.6	76
57	Relationship between polymers compatibility and casting solution stability in fabricating PVDF/PVA membranes. <i>Journal of Membrane Science</i> , 2017, 537, 263-271.	4.1	34
58	Membrane biofouling control using polyvinylidene fluoride membrane blended with quaternary ammonium compound assembled on carbon material. <i>Journal of Membrane Science</i> , 2017, 539, 229-237.	4.1	36
59	Solar light-driven photocatalytic destruction of cyanobacteria by F-Ce-TiO ₂ /expanded perlite floating composites. <i>Chemical Engineering Journal</i> , 2017, 320, 253-263.	6.6	89
60	Insights into iron induced fouling of ion-exchange membranes revealed by a quartz crystal microbalance with dissipation monitoring. <i>RSC Advances</i> , 2017, 7, 36555-36561.	1.7	9
61	Cost-effective Chlorella biomass production from dilute wastewater using a novel photosynthetic microbial fuel cell (PMFC). <i>Water Research</i> , 2017, 108, 356-364.	5.3	85
62	Antibiofouling Polyvinylidene Fluoride Membrane Modified by Quaternary Ammonium Compound: Direct Contact-Killing versus Induced Indirect Contact-Killing. <i>Environmental Science & Technology</i> , 2016, 50, 5086-5093.	4.6	86
63	Development of Redox-Active Flow Electrodes for High-Performance Capacitive Deionization. <i>Environmental Science & Technology</i> , 2016, 50, 13495-13501.	4.6	122
64	The tortoise versus the hare - Possible advantages of microparticulate zerovalent iron (mZVI) over nanoparticulate zerovalent iron (nZVI) in aerobic degradation of contaminants. <i>Water Research</i> , 2016, 105, 331-340.	5.3	46
65	High performance of N-doped TiO ₂ -magnetic activated carbon composites under visible light illumination: Synthesis and application in three-dimensional photoelectrochemical process. <i>Electrochimica Acta</i> , 2016, 222, 1-11.	2.6	14
66	Metagenomes reveal microbial structures, functional potentials, and biofouling-related genes in a membrane bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5109-5121.	1.7	46
67	Effect of Structural Transformation of Nanoparticulate Zero-Valent Iron on Generation of Reactive Oxygen Species. <i>Environmental Science & Technology</i> , 2016, 50, 3820-3828.	4.6	124
68	Microbial responses to membrane cleaning using sodium hypochlorite in membrane bioreactors: Cell integrity, key enzymes and intracellular reactive oxygen species. <i>Water Research</i> , 2016, 88, 293-300.	5.3	112
69	Kinetic Modeling of the Electro-Fenton Process: Quantification of Reactive Oxygen Species Generation. <i>Electrochimica Acta</i> , 2015, 176, 51-58.	2.6	104
70	A novel composite conductive microfiltration membrane and its anti-fouling performance with an external electric field in membrane bioreactors. <i>Scientific Reports</i> , 2015, 5, 9268.	1.6	92
71	Long-term investigation of a novel electrochemical membrane bioreactor for low-strength municipal wastewater treatment. <i>Water Research</i> , 2015, 78, 98-110.	5.3	105
72	Membrane bioreactors fed with different COD/N ratio wastewater: impacts on microbial community, microbial products, and membrane fouling. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11436-11445.	2.7	67

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73	Formation and removal of dissolved organic nitrogen (DON) in membrane bioreactor and conventional activated sludge processes. <i>Environmental Science and Pollution Research</i> , 2015, 22, 12633-12643.	2.7	7
74	Occurrence and fate of potential pathogenic bacteria as revealed by pyrosequencing in a full-scale membrane bioreactor treating restaurant wastewater. <i>RSC Advances</i> , 2015, 5, 24469-24478.	1.7	18
75	Start-Up of an Anaerobic Dynamic Membrane Digester for Waste Activated Sludge Digestion: Temporal Variations in Microbial Communities. <i>PLoS ONE</i> , 2014, 9, e93710.	1.1	25
76	Electrogenesis reduces the combustion efficiency of sewage sludge. <i>Applied Energy</i> , 2014, 114, 283-289.	5.1	20
77	Bioelectricity generation through microbial fuel cell using organic matters recovered from municipal wastewater. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 290-297.	1.3	9
78	Temporal variations of cathode performance in air-cathode single-chamber microbial fuel cells with different separators. <i>Journal of Power Sources</i> , 2014, 272, 24-33.	4.0	27
79	Membrane cleaning in membrane bioreactors: A review. <i>Journal of Membrane Science</i> , 2014, 468, 276-307.	4.1	637
80	Soluble microbial products in membrane bioreactors in the presence of ZnO nanoparticles. <i>Journal of Membrane Science</i> , 2014, 451, 169-176.	4.1	58
81	Enhanced power production from waste activated sludge in rotating-cathode microbial fuel cells: The effects of aquatic worm predation. <i>Chemical Engineering Journal</i> , 2014, 248, 415-421.	6.6	24
82	Identification of Microbial Communities in Open and Closed Circuit Bioelectrochemical MBRs by High-Throughput 454 Pyrosequencing. <i>PLoS ONE</i> , 2014, 9, e93842.	1.1	30
83	Recent advances in membrane bio-technologies for sludge reduction and treatment. <i>Biotechnology Advances</i> , 2013, 31, 1187-1199.	6.0	78
84	Disintegration and acidification of MBR sludge under alkaline conditions. <i>Chemical Engineering Journal</i> , 2013, 231, 206-213.	6.6	62
85	Potential Foulants and Fouling Indicators in MBRs: A Critical Review. <i>Separation Science and Technology</i> , 2013, 48, 22-50.	1.3	52
86	Power production from different types of sewage sludge using microbial fuel cells: A comparative study with energetic and microbiological perspectives. <i>Journal of Power Sources</i> , 2013, 235, 280-288.	4.0	54
87	Recent advances in membrane fouling caused by extracellular polymeric substances: a mini-review. <i>Desalination and Water Treatment</i> , 2013, 51, 5121-5131.	1.0	23
88	Correlating microbial community structure and composition with aeration intensity in submerged membrane bioreactors by 454 high-throughput pyrosequencing. <i>Water Research</i> , 2013, 47, 859-869.	5.3	218
89	Microbial communities in an anaerobic dynamic membrane bioreactor (AnDMBR) for municipal wastewater treatment: Comparison of bulk sludge and cake layer. <i>Process Biochemistry</i> , 2013, 48, 510-516.	1.8	90
90	Organic matter recovery from municipal wastewater by using dynamic membrane separation process. <i>Chemical Engineering Journal</i> , 2013, 219, 190-199.	6.6	72

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91	A Bioelectrochemically Assisted Membrane Bioreactor for Simultaneous Wastewater Treatment and Energy Production. <i>Chemical Engineering and Technology</i> , 2013, 36, 2044-2050.	0.9	24
92	Analysis of Nitrification Efficiency and Microbial Community in a Membrane Bioreactor Fed with Low COD/N-Ratio Wastewater. <i>PLoS ONE</i> , 2013, 8, e63059.	1.1	32
93	Recent Advances in Microbial Fuel Cells Integrated with Sludge Treatment. <i>Chemical Engineering and Technology</i> , 2012, 35, 1733-1743.	0.9	34
94	Aqueous nitrate removal by D417 resin: thermodynamic, kinetic and response surface methodology studies. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 856-867.	0.8	10
95	Insights into membrane fouling of submerged membrane bioreactors by characterizing different fouling layers formed on membrane surfaces. <i>Chemical Engineering Journal</i> , 2012, 179, 169-177.	6.6	59