

Changyong Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,196
citations

27
h-index

46
g-index

54
ext. papers

2,897
ext. citations

10.8
avg, IF

5.74
L-index

#	Paper	IF	Citations
52	Hydroxyl radicals in anodic oxidation systems: generation, identification and quantification.. <i>Water Research</i> , 2022 , 217, 118425	12.5	2
51	Integrated flow anodic oxidation and ultrafiltration system for continuous defluorination of perfluorooctanoic acid (PFOA).. <i>Water Research</i> , 2022 , 216, 118319	12.5	1
50	Electrochemical membrane technology for environmental remediation 2022 , 227-263		
49	Membrane-based electrochemical technologies: I. Membrane capacitive deionization and flow-electrode capacitive deionization 2022 , 317-360		
48	Significantly enhanced P release from vivianite as a fertilizer in rhizospheric soil: Effects of citrate. <i>Environmental Research</i> , 2022 , 113567	7.9	0
47	Electrochemical Ni-EDTA degradation and Ni removal from electroless plating wastewaters using an innovative Ni-doped PbO anode: Optimization and mechanism. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127655	12.8	0
46	Flow Electrode Capacitive Deionization (FCDI): Recent Developments, Environmental Applications, and Future Perspectives. <i>Environmental Science & Technology</i> , 2021 , 55, 4243-4267	10.3	31
45	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	12.5	14
44	Donnan Dialysis-Osmotic Distillation (DD-OD) Hybrid Process for Selective Ammonium Recovery Driven by Waste Alkali. <i>Environmental Science & Technology</i> , 2021 , 55, 7015-7024	10.3	3
43	Selective Recovery of Phosphorus from Synthetic Urine Using Flow-Electrode Capacitive Deionization (FCDI)-Based Technology. <i>ACS ES&T Water</i> , 2021 , 1, 175-184		16
42	Phosphate selective recovery by magnetic iron oxide impregnated carbon flow-electrode capacitive deionization (FCDI). <i>Water Research</i> , 2021 , 189, 116653	12.5	18
41	Direct electron transfer (DET) processes in a flow anode system-Energy-efficient electrochemical oxidation of phenol. <i>Water Research</i> , 2021 , 203, 117547	12.5	5
40	Scale-up and Modelling of Flow-electrode CDI Using Tubular Electrodes. <i>Water Research</i> , 2021 , 203, 117498	12.5	3
39	Insight into the overpotential and thermodynamic mechanism of hydroxyl radical formation on diamond anode. <i>Applied Surface Science</i> , 2021 , 565, 150559	6.7	5
38	Formation mechanism of iron scale in membrane capacitive deionization (MCDI) system. <i>Desalination</i> , 2020 , 495, 114636	10.3	1
37	Effect of the Presence of Carbon in TiO Electrodes on Anodic Oxidation of Contaminants. <i>Environmental Science & Technology</i> , 2020 , 54, 5227-5236	10.3	25
36	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	12.5	32

35	Equivalent film-electrode model for flow-electrode capacitive deionization: Experimental validation and performance analysis. <i>Water Research</i> , 2020 , 181, 115917	12.5	14
34	Selective ion separation by capacitive deionization (CDI) based technologies: a state-of-the-art review. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 243-257	4.2	56
33	Carbon Black Flow Electrode Enhanced Electrochemical Desalination Using Single-Cycle Operation. <i>Environmental Science & Technology</i> , 2020 , 54, 1177-1185	10.3	32
32	Scaling behavior of iron in capacitive deionization (CDI) system. <i>Water Research</i> , 2020 , 171, 115370	12.5	20
31	Manipulation of planar oxygen defect arrangements in multifunctional magn \square titanium oxide hybrid systems: from energy conversion to water treatment. <i>Energy and Environmental Science</i> , 2020 , 13, 5080-5096	35.4	6
30	Iron Transformation and Its Role in Phosphorus Immobilization in a UCT-MBR with Vivianite Formation Enhancement. <i>Environmental Science & Technology</i> , 2020 , 54, 12539-12549	10.3	6
29	Flow-electrode capacitive deionization (FCDI) scale-up using a membrane stack configuration. <i>Water Research</i> , 2020 , 168, 115186	12.5	51
28	The impact of absorbents on ammonia recovery in a capacitive membrane stripping system. <i>Chemical Engineering Journal</i> , 2020 , 382, 122851	14.7	32
27	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	5	14
26	Ammonia-Rich Solution Production from Wastewaters Using Chemical-Free Flow-Electrode Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6480-6485	8.3	54
25	Enhancing extracellular electron transfer efficiency and bioelectricity production by vapor polymerization Poly (3,4-ethylenedioxythiophene)/MnO hybrid anode. <i>Bioelectrochemistry</i> , 2019 , 126, 72-78	5.6	8
24	Water Recovery Rate in Short-Circuited Closed-Cycle Operation of Flow-Electrode Capacitive Deionization (FCDI). <i>Environmental Science & Technology</i> , 2019 , 53, 13859-13867	10.3	29
23	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	10.3	32
22	Comparison of faradaic reactions in flow-through and flow-by capacitive deionization (CDI) systems. <i>Electrochimica Acta</i> , 2019 , 299, 727-735	6.7	47
21	Capacitive Membrane Stripping for Ammonia Recovery (CapAmm) from Dilute Wastewaters. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 43-49	11	74
20	Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. <i>Water Research</i> , 2018 , 128, 314-330	12.5	34 ^o
19	Short-Circuited Closed-Cycle Operation of Flow-Electrode CDI for Brackish Water Softening. <i>Environmental Science & Technology</i> , 2018 , 52, 9350-9360	10.3	94
18	Analysis of capacitive and electrochemical contributions to water desalination by flow-electrode CDI. <i>Water Research</i> , 2018 , 144, 296-303	12.5	88

17	Active chlorine mediated ammonia oxidation revisited: Reaction mechanism, kinetic modelling and implications. <i>Water Research</i> , 2018 , 145, 220-230	12.5	77
16	Analysis of the mixing performance of a full-scale membrane bioreactor for municipal wastewater treatment. <i>Bioresource Technology</i> , 2018 , 250, 932-935	11	0
15	Continuous Ammonia Recovery from Wastewaters Using an Integrated Capacitive Flow Electrode Membrane Stripping System. <i>Environmental Science & Technology</i> , 2018 , 52, 14275-14285	10.3	72
14	Comparison of Faradaic reactions in capacitive deionization (CDI) and membrane capacitive deionization (MCDI) water treatment processes. <i>Water Research</i> , 2017 , 120, 229-237	12.5	168
13	Optimization of sulfate removal from brackish water by membrane capacitive deionization (MCDI). <i>Water Research</i> , 2017 , 121, 302-310	12.5	70
12	Performance enhancement of microbial fuel cell by applying transient-state regulation. <i>Applied Energy</i> , 2017 , 185, 582-588	10.7	24
11	Development of Redox-Active Flow Electrodes for High-Performance Capacitive Deionization. <i>Environmental Science & Technology</i> , 2016 , 50, 13495-13501	10.3	87
10	Moderately oxidized graphene-carbon nanotubes hybrid for high performance capacitive deionization. <i>RSC Advances</i> , 2016 , 6, 58907-58915	3.7	29
9	Periodic polarity reversal for stabilizing the pH in two-chamber microbial electrolysis cells. <i>Applied Energy</i> , 2016 , 165, 670-675	10.7	32
8	Binder-free graphene and manganese oxide coated carbon felt anode for high-performance microbial fuel cell. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 32-38	11.8	112
7	Using activated carbon fiber separators to enhance the desalination rate of membrane capacitive deionization. <i>Desalination</i> , 2016 , 381, 95-99	10.3	38
6	Enhancing the response of microbial fuel cell based toxicity sensors to Cu(II) with the applying of flow-through electrodes and controlled anode potentials. <i>Bioresource Technology</i> , 2015 , 190, 367-72	11	92
5	Enhanced desalination performance of membrane capacitive deionization cells by packing the flow chamber with granular activated carbon. <i>Water Research</i> , 2015 , 85, 371-6	12.5	65
4	Enhanced power generation of microbial fuel cell using manganese dioxide-coated anode in flow-through mode. <i>Journal of Power Sources</i> , 2015 , 273, 580-583	8.9	75
3	Enhanced performance of microbial fuel cell at low substrate concentrations by adsorptive anode. <i>Electrochimica Acta</i> , 2015 , 161, 245-251	6.7	27
2	A ten liter stacked microbial desalination cell packed with mixed ion-exchange resins for secondary effluent desalination. <i>Environmental Science & Technology</i> , 2014 , 48, 9917-24	10.3	70
1	Novel Current Collector with Mosquito-Repellent Incense-Shaped Channel of Flow Electrode Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1