

Longqian Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4794783/publications.pdf>

Version: 2024-02-01

35
papers

1,291
citations

394421

19
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the Overlooked Involvement of High-Valent Cobalt-Oxo Species Generated from the Cobalt(II)-Activated Peroxymonosulfate Process. <i>Environmental Science & Technology</i> , 2020, 54, 16231-16239.	10.0	310
2	Enhanced Oxidation of Organic Contaminants by Iron(II)-Activated Periodate: The Significance of High-Valent Iron-Oxo Species. <i>Environmental Science & Technology</i> , 2021, 55, 7634-7642.	10.0	208
3	Simultaneous removal of cadmium, zinc and manganese using electrocoagulation: Influence of operating parameters and electrolyte nature. <i>Journal of Environmental Management</i> , 2017, 204, 394-403.	7.8	54
4	Surface-mediated periodate activation by nano zero-valent iron for the enhanced abatement of organic contaminants. <i>Journal of Hazardous Materials</i> , 2022, 423, 126991.	12.4	53
5	High-valent cobalt-oxo species triggers hydroxyl radical for collaborative environmental decontamination. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120722.	20.2	52
6	Optimization and assessment of Fe ^{II} -electrocoagulation for the removal of potentially toxic metals from real smelting wastewater. <i>Journal of Environmental Management</i> , 2018, 218, 129-138.	7.8	48
7	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.	4.6	41
8	Can flow-electrode capacitive deionization become a new in-situ soil remediation technology for heavy metal removal?. <i>Journal of Hazardous Materials</i> , 2021, 402, 123568.	12.4	39
9	Enhancing the dioxygen activation for arsenic removal by CuO nano-shell-decorated nZVI: Synergistic effects and mechanisms. <i>Chemical Engineering Journal</i> , 2020, 384, 123295.	12.7	36
10	Non-selective degradation of organic pollutants via dioxygen activation induced by Fe(II)-tetrapolyphosphate complexes: Identification of reactive oxidant and kinetic modeling. <i>Chemical Engineering Journal</i> , 2020, 398, 125603.	12.7	34
11	Scale-up desalination: Membrane-current collector assembly in flow-electrode capacitive deionization system. <i>Water Research</i> , 2021, 190, 116782.	11.3	34
12	Simultaneous removal of Zn ²⁺ and Mn ²⁺ ions from synthetic and real smelting wastewater using electrocoagulation process: Influence of pulse current parameters and anions. <i>Separation and Purification Technology</i> , 2017, 188, 316-328.	7.9	31
13	Selective recovery of phosphorus and urea from fresh human urine using a liquid membrane chamber integrated flow-electrode electrochemical system. <i>Water Research</i> , 2021, 202, 117423.	11.3	30
14	Initial dissolved oxygen-adjusted electrochemical generation of sulfate green rust for cadmium removal using a closed-atmosphere Fe ^{II} -electrocoagulation system. <i>Chemical Engineering Journal</i> , 2019, 359, 1411-1418.	12.7	28
15	Characterization and adsorption properties of cross-linked yeast/ β -cyclodextrin polymers for Pb(II) and Cd(II) adsorption. <i>RSC Advances</i> , 2018, 8, 31542-31554.	3.6	25
16	Enhanced phosphate removal by nano-lanthanum hydroxide embedded silica aerogel composites: Superior performance and insights into specific adsorption mechanism. <i>Separation and Purification Technology</i> , 2022, 285, 120365.	7.9	25
17	Rapid removal of Pb ²⁺ from aqueous solution by phosphate-modified baker's yeast. <i>RSC Advances</i> , 2018, 8, 8026-8038.	3.6	24
18	Enhancing Brackish Water Desalination using Magnetic Flow-electrode Capacitive Deionization. <i>Water Research</i> , 2022, 216, 118290.	11.3	22

#	ARTICLE	IF	CITATIONS
19	Sulfite assisted rotating disc electrocoagulation on cadmium removal: Parameter optimization and response surface methodology. <i>Separation and Purification Technology</i> , 2018, 195, 121-129.	7.9	20
20	Remarkable phosphate recovery from wastewater by a novel Ca/Fe composite: Synergistic effects of crystal structure and abundant oxygen-vacancies. <i>Chemosphere</i> , 2021, 266, 129102.	8.2	20
21	Activation of dissolved molecular oxygen by Cu(0) for bisphenol a degradation: Role of Cu(0) and formation of reactive oxygen species. <i>Chemosphere</i> , 2020, 241, 125034.	8.2	19
22	Formic acid recovery from EDTA wastewater using coupled ozonation and flow-electrode capacitive deionization (Ozo/FCDI): Performance assessment at high cell voltage. <i>Separation and Purification Technology</i> , 2021, 254, 117613.	7.9	17
23	Insight into electrosorption behavior of monovalent ions and their selectivity in capacitive deionization: An atomic level study by molecular dynamics simulation. <i>Chemical Engineering Journal</i> , 2021, 415, 128920.	12.7	16
24	Reduced cathodic scale and enhanced electrochemical precipitation of Ca ²⁺ and Mg ²⁺ by a novel fenced cathode structure: Formation of strong alkaline microenvironment and favorable crystallization. <i>Water Research</i> , 2022, 209, 117893.	11.3	15
25	Enhancing the degradation of bisphenol A by dioxygen activation using bimetallic Cu/Fe@zeolite: Critical role of Cu(I) and superoxide radical. <i>Separation and Purification Technology</i> , 2020, 253, 117550.	7.9	14
26	Highly selective oxidation of organic contaminants in the RuIII-activated peroxymonosulfate process: The dominance of RuVO species. <i>Chemosphere</i> , 2021, 285, 131544.	8.2	13
27	Selective recovery of formic acid from wastewater using an ion-capture electrochemical system integrated with a liquid-membrane chamber. <i>Chemical Engineering Journal</i> , 2021, 425, 131429.	12.7	13
28	Comparative performance of green rusts generated in Fe ⁰ -electrocoagulation for Cd ²⁺ removal from high salinity wastewater: Mechanisms and optimization. <i>Journal of Environmental Management</i> , 2019, 237, 495-503.	7.8	12
29	Efficient recovery of carboxylates from the effluents treated by advanced oxidation processes using flow-electrode capacitive deionization in short-circuited closed-cycle operation. <i>Separation and Purification Technology</i> , 2021, 275, 119151.	7.9	10
30	Magnetic array for efficient and stable Flow-electrode capacitive deionization. <i>Chemical Engineering Journal</i> , 2022, 446, 137415.	12.7	10
31	Ammonia-rich solution production from coal gasification gray water using Chemical-free Flow-Electrode capacitive deionization coupled with a monovalent cation exchange membrane. <i>Chemical Engineering Journal</i> , 2022, 433, 133780.	12.7	8
32	Membrane-Current Collector-Based Flow-Electrode Capacitive Deionization System: A Novel Stack Configuration for Scale-Up Desalination. <i>Environmental Science & Technology</i> , 2021, 55, 13286-13296.	10.0	5
33	Molecular understanding of aqueous electrolyte properties and dielectric effect in a CDI system. <i>Chemical Engineering Journal</i> , 2022, 435, 134750.	12.7	5
34	Deactivation of <i>Caenorhabditis elegans</i> nematodes in drinking water by PMS/UV-C: efficiency and mechanisms. <i>Environmental Science and Pollution Research</i> , 2021, 28, 58606-58616.	5.3	0
35	Comparative performance of aerobic and anaerobic environments on simultaneous removal of Cd ²⁺ and Mn ²⁺ by Fe ⁰ -electrocoagulation. , 0, 136, 356-368.		0