

Xiao Su

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,505
citations

218677

26
h-index

197818

49
g-index

61
all docs

61
docs citations

61
times ranked

2307
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-transfer materials for electrochemical water desalination, ion separation and the recovery of elements. <i>Nature Reviews Materials</i> , 2020, 5, 517-538.	48.7	360
2	Electrochemically-mediated selective capture of heavy metal chromium and arsenic oxyanions from water. <i>Nature Communications</i> , 2018, 9, 4701.	12.8	193
3	Asymmetric Faradaic systems for selective electrochemical separations. <i>Energy and Environmental Science</i> , 2017, 10, 1272-1283.	30.8	143
4	Redox-electrodes for selective electrochemical separations. <i>Advances in Colloid and Interface Science</i> , 2017, 244, 6-20.	14.7	132
5	Postsynthetic Functionalization of Mg-MOF-74 with Tetraethylenepentamine: Structural Characterization and Enhanced CO ₂ Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11299-11306.	8.0	131
6	Bromine-Catalyzed Conversion of CO ₂ and Epoxides to Cyclic Carbonates under Continuous Flow Conditions. <i>Journal of the American Chemical Society</i> , 2013, 135, 18497-18501.	13.7	130
7	Redox-electrolytes for non-flow electrochemical energy storage: A critical review and best practice. <i>Progress in Materials Science</i> , 2019, 101, 46-89.	32.8	111
8	Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces. <i>Advanced Functional Materials</i> , 2016, 26, 3394-3404.	14.9	106
9	Capacitive deionization and electrosorption for heavy metal removal. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 258-282.	2.4	92
10	Asymmetric Redox-Polymer Interfaces for Electrochemical Reactive Separations: Synergistic Capture and Conversion of Arsenic. <i>Advanced Materials</i> , 2020, 32, e1906877.	21.0	77
11	Electrosorption at functional interfaces: from molecular-level interactions to electrochemical cell design. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23570-23584.	2.8	71
12	Functional Networks of Organic and Coordination Polymers: Catalysis of Fructose Conversion. <i>Chemistry of Materials</i> , 2014, 26, 6257-6264.	6.7	58
13	Heteropolyacid-Functionalized Aluminum 2-Aminoterephthalate Metal-Organic Frameworks As Reactive Aldehyde Sorbents and Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5468-5477.	8.0	56
14	Selective cobalt and nickel electrodeposition for lithium-ion battery recycling through integrated electrolyte and interface control. <i>Nature Communications</i> , 2021, 12, 6554.	12.8	56
15	Electrochemical approaches for selective recovery of critical elements in hydrometallurgical processes of complex feedstocks. <i>IScience</i> , 2021, 24, 102374.	4.1	46
16	Electrochemical interfaces for chemical and biomolecular separations. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 46, 77-93.	7.4	40
17	An Asymmetric Iron-Based Redox-Active System for Electrochemical Separation of Ions in Aqueous Media. <i>Advanced Functional Materials</i> , 2020, 30, 1910363.	14.9	39
18	Electrochemical lithium recovery system through the simultaneous lithium enrichment via sustainable redox reaction. <i>Chemical Engineering Journal</i> , 2021, 420, 127715.	12.7	39

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19	Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination. <i>Advanced Functional Materials</i> , 2020, 30, 1909387.	14.9	38
20	Electrochemically Mediated Reduction of Nitrosamines by Hemin-Functionalized Redox Electrodes. <i>Environmental Science and Technology Letters</i> , 2017, 4, 161-167.	8.7	36
21	Redox Interfaces for Electrochemically Controlled Protein-Surface Interactions: Bioseparations and Heterogeneous Enzyme Catalysis. <i>Chemistry of Materials</i> , 2017, 29, 5702-5712.	6.7	35
22	Molecular Tuning of Redox-Copolymers for Selective Electrochemical Remediation. <i>Advanced Functional Materials</i> , 2020, 30, 2004635.	14.9	34
23	Recent advances in wastewater treatment using semiconductor photocatalysts. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 36, 100644.	5.9	33
24	Redox-copolymers for the recovery of rare earth elements by electrochemically regenerated ion-exchange. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20068-20077.	10.3	31
25	Structure and Potential-Dependent Selectivity in Redox-Metallopolymers: Electrochemically Mediated Multicomponent Metal Separations. <i>Advanced Functional Materials</i> , 2021, 31, 2009307.	14.9	30
26	Redox-mediated electrochemical desalination for waste valorization in dairy production. <i>Chemical Engineering Journal</i> , 2022, 428, 131082.	12.7	30
27	Perspective and challenges in electrochemical approaches for reactive CO ₂ separations. <i>IScience</i> , 2021, 24, 103422.	4.1	28
28	Density of Ocular Components of the Bovine Eye. <i>Optometry and Vision Science</i> , 2009, 86, 1187-1195.	1.2	27
29	Aldehyde Self-Condensation Catalysis by Aluminum Aminoterephthalate Metal-Organic Frameworks Modified with Aluminum Isopropoxide. <i>Chemistry of Materials</i> , 2013, 25, 1636-1642.	6.7	25
30	Electrochemical separation of organic acids and proteins for food and biomanufacturing. <i>Chemical Engineering Research and Design</i> , 2022, 178, 267-288.	5.6	25
31	Ferrocene-Containing Inverse Opals by Melt-Shear Organization of Core/Shell Particles. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800428.	3.9	24
32	Parametric investigation of the desalination performance in multichannel membrane capacitive deionization (MC-MCDI). <i>Desalination</i> , 2021, 503, 114950.	8.2	24
33	Semiconducting Polymer Interfaces for Electrochemically Assisted Mercury Remediation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49713-49722.	8.0	22
34	Mechanism and performance relevance of nanomorphogenesis in polyamide films revealed by quantitative 3D imaging and machine learning. <i>Science Advances</i> , 2022, 8, eabk1888.	10.3	22
35	Electrochemical remediation of perfluoroalkyl substances from water. <i>Electrochimica Acta</i> , 2022, 403, 139635.	5.2	19
36	Self-Decontaminating Fibrous Materials Reactive toward Chemical Threats. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17555-17564.	8.0	18

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37	Electrochemically-assisted removal of cadmium ions by redox active Cu-based metal-organic framework. <i>Chemical Engineering Journal</i> , 2021, 421, 129765.	12.7	18
38	Electrochemical Separations for Metal Recycling. <i>Electrochemical Society Interface</i> , 2020, 29, 55-61.	0.4	18
39	Electrosorption of cadmium ions in aqueous solutions using a copper-gallate metal-organic framework. <i>Chemosphere</i> , 2022, 286, 131853.	8.2	16
40	Advances and challenges in metal ion separation from water. <i>Trends in Chemistry</i> , 2021, 3, 819-831.	8.5	14
41	Chitosan/sericin blend membranes for adsorption of bovine serum albumin. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 954-960.	1.7	10
42	Emerging investigator series: electrochemically-mediated remediation of GenX using redox-copolymers. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 2231-2240.	2.4	9
43	Synthesis and covalent immobilization of redox-active metallopolymer for organic phase electrochemistry. <i>Polymer</i> , 2022, 244, 124656.	3.8	7
44	Iron phosphomolybdate complexes in electrocatalytic reduction of aqueous disinfection byproducts. <i>Chemical Engineering Journal</i> , 2021, 408, 127354.	12.7	5
45	Rate, Efficiency, and Mechanisms of Electrochemical Perfluorooctanoic Acid Degradation with Boron-Doped Diamond and Plasma Electrodes. <i>Langmuir</i> , 2022, 38, 8975-8986.	3.5	5
46	Electrochemistry for Recycling. <i>Electrochemical Society Interface</i> , 2021, 30, 41-43.	0.4	4
47	Electrochemical Remediation: Molecular Tuning of Redox Copolymers for Selective Electrochemical Remediation (<i>Adv. Funct. Mater.</i> 52/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070346.	14.9	3
48	Electrochemical Reactive Separation: Asymmetric Redox Polymer Interfaces for Electrochemical Reactive Separations: Synergistic Capture and Conversion of Arsenic (<i>Adv. Mater.</i> 6/2020). <i>Advanced Materials</i> , 2020, 32, 2070040.	21.0	1
49	Reactive Fibrous Materials for Decontamination of Chemical and Biological Threats. <i>Key Engineering Materials</i> , 0, 893, 3-10.	0.4	1
50	Corrigendum to "Electrochemically-assisted removal of cadmium ions by redox active Cu-based metal-organic framework" [<i>Chem. Eng. J.</i> 421 (2021) 129765]. <i>Chemical Engineering Journal</i> , 2021, 426, 130667.	12.7	1
51	Redox Copolymers for the Electrochemically-Mediated Removal of per- and Polyfluoroalkyl Substances from Water. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1531-1531.	0.0	1
52	Membrane-based electrochemical technologies: III. Selective ion removal and recovery. , 2022, , 403-444.		1
53	Redox Electrodes: Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces (<i>Adv. Funct. Mater.</i> 20/2016). <i>Advanced Functional Materials</i> , 2016, 26, 3552-3552.	14.9	0
54	Magnesium Thiodialkanoates: Dually-Functional Additives to Organic Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10992-11004.	3.7	0

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55	Capacitive Deionization: Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination (Adv. Funct. Mater. 9/2020). Advanced Functional Materials, 2020, 30, 2070054.	14.9	0
56	Electrosorption: Structure and Potential-Dependent Selectivity in Redox-Metallopolymers: Electrochemically Mediated Multicomponent Metal Separations (Adv. Funct. Mater. 15/2021). Advanced Functional Materials, 2021, 31, 2170103.	14.9	0
57	(Invited) Molecular Engineering of Redox-Active Electrodes for Selective Ion Separations and Process Intensification. ECS Meeting Abstracts, 2019, , .	0.0	0
58	Redox-Active Interfaces for Electrochemical Reactive Separations and Process Intensification. ECS Meeting Abstracts, 2021, MA2021-02, 841-841.	0.0	0
59	Structural and Potential-Dependent Metal Anion Selectivity of Redox-Metallopolymer Electrosorbents. ECS Meeting Abstracts, 2021, MA2021-02, 759-759.	0.0	0