

Shiwei He

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,035
citations

759233

12
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrometallurgical Processes for Recycling Spent Lithium-Ion Batteries: A Critical Review. ACS Sustainable Chemistry and Engineering, 2018, 6, 13611-13627.	6.7	415
2	Adsorption of heavy metal ions by sodium alginate based adsorbent-a review and new perspectives. International Journal of Biological Macromolecules, 2020, 164, 4423-4434.	7.5	272
3	Adsorptive removal of trace thallium(I) from wastewater: A review and new perspectives. Journal of Hazardous Materials, 2020, 393, 122378.	12.4	71
4	Adsorption Performances and Mechanisms of Amidoxime Resin toward Gallium(III) and Vanadium(V) from Bayer Liquor. ACS Sustainable Chemistry and Engineering, 2016, 4, 53-59.	6.7	50
5	Binding Mechanism of the Amidoxime Functional Group on Chelating Resins toward Gallium(III) in Bayer Liquor. Industrial & Engineering Chemistry Research, 2015, 54, 8025-8030.	3.7	26
6	Electrochemical characteristics of Co ₃ O ₄ -doped β -PbO ₂ composite anodes used in long-period zinc electrowinning. Hydrometallurgy, 2020, 194, 105357.	4.3	25
7	Selective adsorption of Pd (II) by ion-imprinted porous alginate beads: Experimental and density functional theory study. International Journal of Biological Macromolecules, 2020, 157, 401-413.	7.5	25
8	Electrochemical behavior of zirconium in molten LiF-KF-ZrF ₄ at 600 °C. RSC Advances, 2016, 6, 84472-84479.	3.6	24
9	Interaction and selectivity of 14-crown-4 derivatives with Li ⁺ , Na ⁺ , and Mg ²⁺ metal ions. Journal of Molecular Modeling, 2020, 26, 67.	1.8	22
10	A fundamental study on selective extraction of Li ⁺ with dibenzo-14-crown-4 ether: Toward new technology development for lithium recovery from brines. Journal of Environmental Management, 2022, 310, 114705.	7.8	14
11	Study on the Electrosynthesis of Pb-0.3%Ag/α-PbO ₂ /Composite Inert Anode Materials. Electrochemistry, 2015, 83, 974-978.	1.4	13
12	Decomposition behavior and reaction mechanism of Ce _{0.67} Tb _{0.33} MgAl ₁₁ O ₁₉ during Na ₂ CO ₃ assisted roasting: Toward efficient recycling of Ce and Tb from waste phosphor. Journal of Environmental Management, 2019, 249, 109383.	7.8	13
13	Density functional theory study of selectivity of crown ethers to Li ⁺ in spent lithium-ion batteries leaching solutions. Chinese Journal of Chemical Physics, 2019, 32, 343-348.	1.3	13
14	Temperature effects on the kinetics of a PbO ₂ electrosynthesis process in an alkaline bath. RSC Advances, 2016, 6, 88350-88357.	3.6	11
15	Theoretical and extraction studies on the selectivity of lithium with 14C4 derivatives. New Journal of Chemistry, 2020, 44, 20341-20350.	2.8	9
16	Preparations and Performances Testing of β -PbO ₂ ; Phase Compositions Prepared in Methanesulfonic Acid in Order to Provide More Appropriate Environmentally Sustainable Electrodes. Electrochemistry, 2019, 87, 197-203.	1.4	7
17	Preparation and electrochemical properties of Pb-0.3wt%Ag/Pb-WC composite inert anodes. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 811-817.	1.0	6
18	Electromagnetic Field Assisted Metallic Materials Processing: A Review. Steel Research International, 2017, 88, 1600273.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Molecular design of macrocyclic compounds for complete removal of thallium(I) from wastewater. Environmental Science and Pollution Research, 2018, 25, 34550-34558.	5.3	5
20	Designing Co-based microwave absorber with high absorption and thin thickness based on structure regulations. Journal of Materials Science: Materials in Electronics, 2021, 32, 28648-28662.	2.2	5
21	Fabrication and nucleation study of $\text{PbO}_2/\text{Co}_3\text{O}_4$ OER energy-saving electrode. SN Applied Sciences, 2019, 1, 1.	2.9	4