

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 | A fundamental study on selective extraction of Li ⁺ with dibenzo-14-crown-4 ether: Toward new technology development for lithium recovery from brines. <i>Journal of Environmental Management</i> , 2022, 310, 114705. | 7.8 | 14 |
| 2 | Designing Co-based microwave absorber with high absorption and thin thickness based on structure regulations. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28648-28662. | 2.2 | 5 |
| 3 | Adsorption of heavy metal ions by sodium alginate based adsorbent-a review and new perspectives. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4423-4434. | 7.5 | 272 |
| 4 | Electrochemical characteristics of Co ₃ O ₄ -doped β -PbO ₂ composite anodes used in long-period zinc electrowinning. <i>Hydrometallurgy</i> , 2020, 194, 105357. | 4.3 | 25 |
| 5 | Interaction and selectivity of 14-crown-4 derivatives with Li ⁺ , Na ⁺ , and Mg ²⁺ metal ions. <i>Journal of Molecular Modeling</i> , 2020, 26, 67. | 1.8 | 22 |
| 6 | Adsorptive removal of trace thallium(I) from wastewater: A review and new perspectives. <i>Journal of Hazardous Materials</i> , 2020, 393, 122378. | 12.4 | 71 |
| 7 | Selective adsorption of Pd (II) by ion-imprinted porous alginate beads: Experimental and density functional theory study. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 401-413. | 7.5 | 25 |
| 8 | Theoretical and extraction studies on the selectivity of lithium with 14C4 derivatives. <i>New Journal of Chemistry</i> , 2020, 44, 20341-20350. | 2.8 | 9 |
| 9 | 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. <i>Journal of Environmental Management</i> , 2019, 249, 109383. | 7.8 | 13 |
| 10 | Density functional theory study of selectivity of crown ethers to Li ⁺ in spent lithium-ion batteries leaching solutions. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 343-348. | 1.3 | 13 |
| 11 | Fabrication and nucleation study of β -PbO ₂ @Co ₃ O ₄ OER energy-saving electrode. <i>SN Applied Sciences</i> , 2019, 1, 1. | 2.9 | 4 |
| 12 | Preparations and Performances Testing of β -PbO ₂ Phase Compositions Prepared in Methanesulfonic Acid in Order to Provide More Appropriate Environmentally Sustainable Electrodes. <i>Electrochemistry</i> , 2019, 87, 197-203. | 1.4 | 7 |
| 13 | Molecular design of macrocyclic compounds for complete removal of thallium(I) from wastewater. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34550-34558. | 5.3 | 5 |
| 14 | Hydrometallurgical Processes for Recycling Spent Lithium-Ion Batteries: A Critical Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13611-13627. | 6.7 | 415 |
| 15 | Electromagnetic Field Assisted Metallic Materials Processing: A Review. <i>Steel Research International</i> , 2017, 88, 1600273. | 1.8 | 5 |
| 16 | Temperature effects on the kinetics of a PbO ₂ electrosynthesis process in an alkaline bath. <i>RSC Advances</i> , 2016, 6, 88350-88357. | 3.6 | 11 |
| 17 | Preparation and electrochemical properties of Pb-0.3wt%Ag/Pb-WC composite inert anodes. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 811-817. | 1.0 | 6 |
| 18 | Electrochemical behavior of zirconium in molten LiF-KF-ZrF ₄ at 600 °C. <i>RSC Advances</i> , 2016, 6, 84472-84479. | 3.6 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Study on the Electrosynthesis of Pb-0.3%Ag/ α -PbO ₂ Composite Inert Anode Materials. Electrochemistry, 2015, 83, 974-978. | 1.4 | 13 |
| 21 | 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 |