

Handong Jiao

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,586
citations

279798

23
h-index

302126

39
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53
all docs

53
docs citations

53
times ranked

1482
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-electrochemical enhanced mechanism enables a fast-charging and high-energy aqueous Al/MnO ₂ battery. <i>Energy Storage Materials</i> , 2022, 45, 586-594.	18.0	19
2	Stable Quasi-Solid-State Aluminum Batteries. <i>Advanced Materials</i> , 2022, 34, e2104557.	21.0	19
3	A 4D x-ray computer microtomography for high-temperature electrochemistry. <i>Science Advances</i> , 2022, 8, eabm5678.	10.3	11
4	Ultra-High Temperature Molten Oxide Electrochemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	4
5	Ultra-High Temperature Molten Oxide Electrochemistry. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
6	Al homogeneous deposition induced by N-containing functional groups for enhanced cycling stability of Al-ion battery negative electrode. <i>Nano Research</i> , 2021, 14, 646-653.	10.4	19
7	A dual-protection strategy using CMK-3 coated selenium and modified separators for high-energy Al-Se batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1030-1038.	6.0	16
8	Separation of metallic Ti from Cu-Ti alloys through a simple and efficient electrochemical approach. <i>Separation and Purification Technology</i> , 2021, 256, 117810.	7.9	5
9	Liquid zinc assisted electro-extraction of molybdenum. <i>Separation and Purification Technology</i> , 2021, 279, 119651.	7.9	5
10	Quantificational 4D Visualization of Industrial Electrodeposition. <i>Advanced Science</i> , 2021, 8, e2101373.	11.2	9
11	Selective extraction of titanium from Ti-bearing slag via the enhanced depolarization effect of liquid copper cathode. <i>Journal of Energy Chemistry</i> , 2020, 42, 43-48.	12.9	23
12	Liquid gallium as long cycle life and recyclable negative electrode for Al-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 391, 123594.	12.7	25
13	Nonmetal Current Collectors: The Key Component for High-Energy-Density Aluminum Batteries. <i>Advanced Materials</i> , 2020, 32, e2001212.	21.0	26
14	Synthesis and characterization of neodymium oxychloride. <i>Journal of Materials Research and Technology</i> , 2020, 9, 16378-16386.	5.8	2
15	Stable Interface between a NaCl-AlCl ₃ Melt and a Liquid Ga Negative Electrode for a Long-Life Stationary Al-Ion Energy Storage Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15063-15070.	8.0	12
16	Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. <i>ACS Nano</i> , 2020, 14, 3469-3476.	14.6	70
17	Sustainable recycling of titanium scraps and purity titanium production via molten salt electrolysis. <i>Journal of Cleaner Production</i> , 2020, 261, 121314.	9.3	26
18	Gel electrolytes with a wide potential window for high-rate Al-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20348-20356.	10.3	54

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19	Cu-Al Composite as the Negative Electrode for Long-life Al-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3539-A3545.	2.9	20
20	Depolarization Behavior of Ti Deposition at Liquid Metal Cathodes in a NaCl-KCl-KF Melt. Journal of the Electrochemical Society, 2019, 166, E401-E406.	2.9	6
21	Electrochemical Behaviour of K_2TiF_6 at Liquid Metal Cathodes in the LiF-NaF-KF Eutectic Melt. Electrochemistry, 2019, 87, 142-147.	1.4	4
22	Improved USTB Titanium Production with a Ti_2CO Anode Formed by Casting. Journal of the Electrochemical Society, 2019, 166, E226-E230.	2.9	13
23	Direct preparation of V-Al alloy by molten salt electrolysis of soluble $NaVO_3$ on a liquid Al cathode. Journal of Alloys and Compounds, 2019, 779, 22-29.	5.5	29
24	A novel dual-graphite aluminum-ion battery. Energy Storage Materials, 2018, 12, 119-127.	18.0	86
25	$Ni_{0.36}Al_{0.10}Cu_{0.30}Fe_{0.24}$ Metallic Inert Anode for the Electrochemical Production of Fe-Ni Alloy in Molten K_2CO_3 - Na_2CO_3 . Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3424-3431.	2.1	7
26	Production of AlCrNbTaTi High Entropy Alloy via Electro-Deoxidation of Metal Oxides. Journal of the Electrochemical Society, 2018, 165, D574-D579.	2.9	27
27	The corrosion behavior of a $Ni_{0.91}Cr_{0.04}Cu_{0.05}$ anode for the electroreduction of Fe_2O_3 in molten NaOH. Journal of Alloys and Compounds, 2018, 769, 977-982.	5.5	8
28	Production of Ti-Fe alloys via molten oxide electrolysis at a liquid iron cathode. RSC Advances, 2018, 8, 17575-17581.	3.6	13
29	A Rechargeable Al-Te Battery. ACS Applied Energy Materials, 2018, 1, 4924-4930.	5.1	51
30	A rechargeable Al-ion battery: Al/molten $AlCl_3$ -urea/graphite. Chemical Communications, 2017, 53, 2331-2334.	4.1	147
31	A Novel Ultrafast Rechargeable Multi-Ions Battery. Advanced Materials, 2017, 29, 1606349.	21.0	97
32	Direct Production of Fe and Fe-Ni Alloy via Molten Oxides Electrolysis. Journal of the Electrochemical Society, 2017, 164, E113-E116.	2.9	13
33	The electrochemical behavior of an aluminum alloy anode for rechargeable Al-ion batteries using an $AlCl_3$ -urea liquid electrolyte. RSC Advances, 2017, 7, 32288-32293.	3.6	41
34	A long-life rechargeable Al ion battery based on molten salts. Journal of Materials Chemistry A, 2017, 5, 1282-1291.	10.3	153
35	Ternary $AlCl_3$ -Urea-[EMIm]Cl Ionic Liquid Electrolyte for Rechargeable Aluminum-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A3093-A3100.	2.9	40
36	The Feasibility of Electrolytic Preparation of Fe-Ni-Cr Alloy in Molten Oxides System. Journal of the Electrochemical Society, 2017, 164, D964-D968.	2.9	8

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37	Direct Preparation of Titanium Alloys from Ti-Bearing Blast Furnace Slag. <i>Journal of the Electrochemical Society</i> , 2017, 164, D511-D516.	2.9	39
38	Direct Conversion of Greenhouse Gas CO ₂ into Graphene via Molten Salts Electrolysis. <i>ChemSusChem</i> , 2016, 9, 588-594.	6.8	80
39	Aluminum Ion Asymmetric Supercapacitor Incorporating Carbon Nanotubes and an Ionic Liquid Electrolyte: Al/AlCl ₃ -[EMIm]Cl/CNTs. <i>Energy Technology</i> , 2016, 4, 1112-1118.	3.8	30
40	Electrochemical Behavior of Fe (III) Ion in CaO-MgO-SiO ₂ -Al ₂ O ₃ -NaF-Fe ₂ O ₃ Melts at 1673 K. <i>Journal of the Electrochemical Society</i> , 2016, 163, D710-D714.	2.9	12
41	Fabrication, characterization and electrical conductivity of Ru-doped LaCrO ₃ dense perovskites. <i>Solid State Communications</i> , 2016, 231-232, 53-56.	1.9	12
42	Metallic Nickel Preparation by Electro-Deoxidation in Molten Sodium Hydroxide. <i>Journal of the Electrochemical Society</i> , 2015, 162, E185-E189.	2.9	11
43	Electrochemical preparation of carbon films with a Mo ₂ C interlayer in LiCl-NaCl-Na ₂ CO ₃ melts. <i>Applied Surface Science</i> , 2015, 347, 401-405.	6.1	18
44	A sodium ion intercalation material: a comparative study of amorphous and crystalline FePO ₄ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4551-4557.	2.8	25
45	Electrochemical Conversion of CO ₂ into Negative Electrode Materials for Li-ion Batteries. <i>ChemElectroChem</i> , 2015, 2, 224-230.	3.4	43
46	3D flower-like NaHTi ₃ O ₇ nanotubes as high-performance anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16528-16534.	10.3	24
47	Electrochemically depositing titanium(III) ions at liquid tin in a NaCl-KCl melt. <i>RSC Advances</i> , 2015, 5, 62235-62240.	3.6	22
48	Electrochemical synthesis of Ti ₅ Si ₃ in CaCl ₂ melt. <i>Journal of Alloys and Compounds</i> , 2014, 582, 146-150.	5.5	18
49	Fe ₄ [Fe(CN) ₆] ₃ : a cathode material for sodium-ion batteries. <i>RSC Advances</i> , 2014, 4, 42991-42995.	3.6	30
50	Controllable Cu ₂ O-Cu nanoparticle electrodeposition onto carbon paper and its superior photoelectrochemical performance. <i>RSC Advances</i> , 2014, 4, 16380.	3.6	9
51	Straightforward Approach toward SiO ₂ Nanospheres and Their Superior Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7357-7362.	3.1	104