

Yaoyu Ren

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

1,339
citations

687363

13
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of lithium dendrites inside garnet-type lithium-ion solid electrolyte. <i>Electrochemistry Communications</i> , 2015, 57, 27-30.	4.7	480
2	Oxide Electrolytes for Lithium Batteries. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3603-3623.	3.8	226
3	Achieving high capacity in bulk-type solid-state lithium ion battery based on Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ electrolyte: Interfacial resistance. <i>Journal of Power Sources</i> , 2016, 324, 349-357.	7.8	154
4	Effects of Li source on microstructure and ionic conductivity of Al-contained Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ ceramics. <i>Journal of the European Ceramic Society</i> , 2015, 35, 561-572.	5.7	101
5	Chemical compatibility between garnet-like solid state electrolyte Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ and major commercial lithium battery cathode materials. <i>Journal of Materiomics</i> , 2016, 2, 256-264.	5.7	96
6	Garnet-type oxide electrolyte with novel porous-dense bilayer configuration for rechargeable all-solid-state lithium batteries. <i>Ionics</i> , 2017, 23, 2521-2527.	2.4	50
7	Microstructure Manipulation for Enhancing the Resistance of Garnet-Type Solid Electrolytes to Short Circuit by Li Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5928-5937.	8.0	49
8	The effect of A-site cation (Ln=La, Pr, Sm) on the crystal structure, conductivity and oxygen reduction properties of Sr-doped ferrite perovskites. <i>Solid State Ionics</i> , 2012, 212, 47-54.	2.7	37
9	Amorphous-Carbon-Coated 3D Solid Electrolyte for an Electro-Chemomechanically Stable Lithium Metal Anode in Solid-State Batteries. <i>Nano Letters</i> , 2021, 21, 6163-6170.	9.1	29
10	Enhanced thermoelectric performance of heavy-metals (M: Ba, Pb) doped misfit-layered ceramics: (Ca _{2-x} MxCoO ₃) _{0.62} (CoO ₂). <i>Energy Conversion and Management</i> , 2014, 83, 35-41.	9.2	26
11	Fabrication and performance of Pr-doped CeO ₂ nanorods-impregnated Sr-doped LaMnO ₃ -Y ₂ O ₃ -stabilized ZrO ₂ composite cathodes for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 25042.	6.7	21
12	Development of a new ceria/yttria-ceria double-doped bismuth oxide bilayer electrolyte low-temperature SOFC with higher stability. <i>Ionics</i> , 2019, 25, 3153-3164.	2.4	17
13	Toward Stabilizing Co ₃ O ₄ Nanoparticles as an Oxygen Reduction Reaction Catalyst for Intermediate-Temperature SOFCs. <i>Journal of the Electrochemical Society</i> , 2017, 164, F3001-F3007.	2.9	16
14	Predicting the flexural strength of Li-ion-conducting garnet type oxide for solid-state batteries. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5186-5195.	3.8	13
15	All Solid-State Li/LLZO/LCO Battery Enabled by Alumina Interfacial Coating. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040529.	2.9	12
16	Effects of alkali solution treatment on the electrochemical activity of the strontium doped LaMnO ₃ -based electrode for solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2012, 24, 32-34.	4.7	6
17	High-Throughput Exploration of Lithium-Alloy Protection Layers for High-Performance Lithium-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 2547-2555.	5.1	4
18	Nonvolatile multilevel switching in artificial synaptic transistors based on epitaxial LiCoO ₂ thin films. <i>Physical Review Materials</i> , 2021, 5, .	2.4	2