

Zhuojian Liang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1134876/publications.pdf>

Version: 2024-02-01

16
papers

1,539
citations

566801

15
h-index

940134

16
g-index

16
all docs

16
docs citations

16
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular crowding electrolytes for high-voltage aqueous batteries. <i>Nature Materials</i> , 2020, 19, 1006-1011.	13.3	431
2	Critical Role of Redox Mediator in Suppressing Charging Instabilities of Lithium-Oxygen Batteries. <i>Journal of the American Chemical Society</i> , 2016, 138, 7574-7583.	6.6	272
3	Sulphur-impregnated flow cathode to enable high-energy-density lithium flow batteries. <i>Nature Communications</i> , 2015, 6, 5877.	5.8	130
4	A high-rate and long-life organic oxygen battery. <i>Nature Materials</i> , 2019, 18, 390-396.	13.3	110
5	Mechanistic Insights into Catalyst-Assisted Nonaqueous Oxygen Evolution Reaction in Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6459-6466.	1.5	69
6	Cation-Directed Selective Polysulfide Stabilization in Alkali Metal-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 10740-10748.	6.6	68
7	Heteropoly acid negolytes for high-power-density aqueous redox flow batteries at low temperatures. <i>Nature Energy</i> , 2022, 7, 417-426.	19.8	66
8	Superoxide Stabilization and a Universal KO_2 Growth Mechanism in Potassium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5042-5046.	7.2	62
9	Suppressing singlet oxygen generation in lithium-oxygen batteries with redox mediators. <i>Energy and Environmental Science</i> , 2020, 13, 2870-2877.	15.6	60
10	Tuning Intermolecular Interactions of Molecular Crowding Electrolyte for High-Performance Aqueous Batteries. <i>ACS Energy Letters</i> , 2022, 7, 123-130.	8.8	57
11	Recent Progress in Applying In Situ/Operando Characterization Techniques to Probe the Solid/Liquid/Gas Interfaces of $Li-O_2$ Batteries. <i>Small Methods</i> , 2017, 1, 1700150.	4.6	56
12	Critical Role of Anion Donicity in Li_2S Deposition and Sulfur Utilization in $Li-S$ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25940-25948.	4.0	50
13	Dynamic oxygen shield eliminates cathode degradation in lithium-oxygen batteries. <i>Energy and Environmental Science</i> , 2018, 11, 3500-3510.	15.6	38
14	Achieving Efficient Magnesium-Sulfur Battery Chemistry via Polysulfide Mediation. <i>Advanced Energy Materials</i> , 2021, 11, 2101552.	10.2	36
15	Superoxide Stabilization and a Universal KO_2 Growth Mechanism in Potassium-Oxygen Batteries. <i>Angewandte Chemie</i> , 2018, 130, 5136-5140.	1.6	28
16	Mechanistic Understanding of Oxygen Electrodes in Rechargeable Multivalent Metal-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1588-1598.	2.4	6