Zhenyou Li

List of Publications by Year
in descending order

37 papers	2,014 citations	331670 21 h-index	377865 34 g-index
37 all docs	37 docs citations	37 times ranked	2654 citing authors

#	Article	IF	Citations
1	Surface Modification of Bacterial Cellulose Aerogelsâ€™ Web-like Skeleton for Oil/Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 7373-7381.	8.0	366
2	Toward Highly Reversible Magnesiumâ€“Sulfur Batteries with Efficient and Practical Mg[B(hfip)₄]₂ Electrolyte. ACS Energy Letters, 2018, 3, 2005-2013.	17.4	234
3	Towards stable and efficient electrolytes for room-temperature rechargeable calcium batteries. Energy and Environmental Science, 2019, 12, 3496-3501.	30.8	184
4	Flexible aerogels based on an interpenetrating network of bacterial cellulose and silica by a non-supercritical drying process. Journal of Materials Chemistry A, 2013, 1, 7963.	10.3	143
5	High entropy oxides as anode material for Li-ion battery applications: A practical approach. Electrochemistry Communications, 2019, 100, 121-125.	4.7	125
6	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. Nature Communications, 2018, 9, 5115.	12.8	114
7	Multiâ€Electron Reactions Enabled by Anionâ€Based Redox Chemistry for Highâ€Energy Multivalent Rechargeable Batteries. Angewandte Chemie - International Edition, 2020, 59, 11483-11490.	13.8	91
8	Flexible aerogels with interpenetrating network structure of bacterial celluloseâ€“silica composite from sodium silicate precursor via freeze drying process. RSC Advances, 2014, 4, 30453.	3.6	83
9	Preparation of hierarchical C@MoS₂@C sandwiched hollow spheres for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 3987-3994.	10.3	81
10	Formation of uniform reduced graphene oxide films on modified PET substrates using drop-casting method. Particuology, 2014, 17, 66-73.	3.6	56
11	Insights into the electrochemical processes of rechargeable magnesiumâ€“sulfur batteries with a new cathode design. Journal of Materials Chemistry A, 2019, 7, 25490-25502.	10.3	53
12	Hetero-layered MoS2/C composites enabling ultrafast and durable Na storage. Energy Storage Materials, 2019, 21, 115-123.	18.0	46
13	Investigation on the formation of Mg metal anode/electrolyte interfaces in Mg/S batteries with electrolyte additives. Journal of Materials Chemistry A, 2020, 8, 22998-23010.	10.3	46
14	Development of Magnesium Borate Electrolytes: Explaining the Success of Mg[B(hfip)4]2 Salt. Energy Storage Materials, 2022, 45, 1133-1143.	18.0	39
15	Establishing a Stable Anodeâ€“Electrolyte Interface in Mg Batteries by Electrolyte Additive. ACS Applied Materials & Interfaces, 2021, 13, 33123-33132.	8.0	34
16	Dual Role of Mo₆S₈ in Polysulfide Conversion and Shuttle for Mgâ€“S Batteries. Advanced Science, 2022, 9, e2104605.	11.2	33
17	Calcium-tin alloys as anodes for rechargeable non-aqueous calcium-ion batteries at room temperature. Nature Communications, 2022, 13, .	12.8	32
18	Hierarchical MoS₂â€“carbon porous nanorods towards atomic interfacial engineering for high-performance lithium storage. Journal of Materials Chemistry A, 2019, 7, 7553-7564.	10.3	31

#	Article	IF	Citations
19	Combining Quinoneâ€Based Cathode with an Efficient Borate Electrolyte for Highâ€Performance Magnesium Batteries. Batteries and Supercaps, 2021, 4, 1850-1857.	4.7	26
20	Surface Engineering of a Mg Electrode via a New Additive to Reduce Overpotential. ACS Applied Materials & Interfaces, 2021, 13, 37044-37051.	8.0	25
21	Rechargeable Calciumâ€"Sulfur Batteries Enabled by an Efficient Borateâ€Based Electrolyte. Small, 2020, 16, e2001806.	10.0	24
22	A facile synthesis method and electrochemical studies of a hierarchical structured MoS₂/C-nanocomposite. RSC Advances, 2016, 6, 76084-76092.	3.6	21
23	Designing Gel Polymer Electrolyte with Synergetic Properties for Rechargeable Magnesium Batteries. Energy Storage Materials, 2022, 48, 155-163.	18.0	21
24	Highly tunable porous organic polymer (POP) supports for metallocene-based ethylene polymerization. Applied Surface Science, 2017, 420, 496-503.	6.1	17
25	A Selfâ€Conditioned Metalloporphyrin as a Highly Stable Cathode for Fast Rechargeable Magnesium Batteries. ChemSusChem, 2021, 14, 1840-1846.	6.8	17
26	Multiâ€Electron Reactions Enabled by Anionâ€Based Redox Chemistry for Highâ€Energy Multivalent Rechargeable Batteries. Angewandte Chemie, 2020, 132, 11580-11587.	2.0	15
27	Modeling of Electronâ€Transfer Kinetics in Magnesium Electrolytes: Influence of the Solvent on the Battery Performance. ChemSusChem, 2021, 14, 4820-4835.	6.8	15
28	Mitigating self-discharge and improving the performance of Mgâ€"S battery in Mg[B(hfip)₄]₂ electrolyte with a protective interlayer. Journal of Materials Chemistry A, 2021, 9, 25150-25159.	10.3	11
29	Investigation of the Anodeâ€Electrolyte Interface in a Magnesium Fullâ€Cell with Fluorinated Alkoxyborateâ€Based Electrolyte. Batteries and Supercaps, 2022, 5, .	4.7	8
30	Morphology controlling of calcium carbonate by self-assembled surfactant micelles on PET substrate. RSC Advances, 2014, 4, 31210-31218.	3.6	7
31	New Insight into Desodiation/Sodiation Mechanism of MoS₂: Sodium Insertion in Amorphous Moâ€"S Clusters. ACS Applied Materials & Interfaces, 2021, 13, 40481-40488.	8.0	7
32	Calciumâ€"Sulfur Batteries: Rechargeable Calciumâ€"Sulfur Batteries Enabled by an Efficient Borateâ€Based Electrolyte (Small 39/2020). Small, 2020, 16, 2070216.	10.0	5
33	Effects of Surfactants on the Synthesis of Silica Aerogels Prepared by Ambient Pressure Drying. Key Engineering Materials, 2012, 512-515, 1625-1630.	0.4	3
34	Intercalation of Solvated Magnesium-Ions into Layered Transition Metal Sulfide for Fast Mg Storage. ECS Meeting Abstracts, 2019, MA2019-01, 353-353.	0.0	1
35	Non-Covalent Functionalization of Graphene and Multiwalled Carbon Nanotubes Composites for Transparent Conductive Films. Key Engineering Materials, 2014, 602-603, 921-925.	0.4	0
36	Understanding Structure Changes during Cycling of MoS2-based Mg Batteries. Microscopy and Microanalysis, 2019, 25, 2042-2043.	0.4	0

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37	The Electronic Structural and Defect-Induced Absorption Properties of a $Ca_2B_{10}O_{14}F_6$ Crystal. Crystals, 2021, 11, 1430.	2.2	0