

Jiapeng Liu

List of Publications by Year in descending order

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41
papers

2,156
citations

218677

26
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

2158
citing authors

#	ARTICLE	IF	CITATIONS
1	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. <i>Nature Catalysis</i> , 2021, 4, 212-222.	34.4	266
2	Water Splitting with an Enhanced Bifunctional Double Perovskite. <i>ACS Catalysis</i> , 2018, 8, 364-371.	11.2	186
3	Dual-phase MoS ₂ as a high-performance sodium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2114-2122.	10.3	160
4	Single-atom catalyst for high-performance methanol oxidation. <i>Nature Communications</i> , 2021, 12, 5235.	12.8	113
5	Nanoparticle Ex-solution for Supported Catalysts: Materials Design, Mechanism and Future Perspectives. <i>ACS Nano</i> , 2021, 15, 81-110.	14.6	95
6	Metallic MoS ₂ nanosheets: multifunctional electrocatalyst for the ORR, OER and Li ⁺ O ₂ batteries. <i>Nanoscale</i> , 2018, 10, 22549-22559.	5.6	93
7	Non-flammable electrolyte for dendrite-free sodium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 23, 8-16.	18.0	92
8	The Gaussian process distribution of relaxation times: A machine learning tool for the analysis and prediction of electrochemical impedance spectroscopy data. <i>Electrochimica Acta</i> , 2020, 331, 135316.	5.2	85
9	Rechargeable Battery Electrolytes Capable of Operating over Wide Temperature Windows and Delivering High Safety. <i>Advanced Energy Materials</i> , 2020, 10, 2001235.	19.5	75
10	Nanocomposites: A New Opportunity for Developing Highly Active and Durable Bifunctional Air Electrodes for Reversible Protonic Ceramic Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101899.	19.5	70
11	In Situ Fabricated Quasi-Solid Polymer Electrolyte for High-Energy-Density Lithium Metal Battery Capable of Subzero Operation. <i>Advanced Energy Materials</i> , 2022, 12, 2102932.	19.5	69
12	Mesoporous MnCo ₂ S ₄ nanosheet arrays as an efficient catalyst for Li ⁺ O ₂ batteries. <i>Nanoscale</i> , 2018, 10, 15588-15599.	5.6	65
13	In situ formation of poly(butyl acrylate)-based non-flammable elastic quasi-solid electrolyte for dendrite-free flexible lithium metal batteries with long cycle life for wearable devices. <i>Energy Storage Materials</i> , 2021, 34, 629-639.	18.0	59
14	Establishing structure/property relationships in atomically dispersed Co-Fe dual site Mn _x catalysts on microporous carbon for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13044-13055.	10.3	49
15	A solid-like dual-salt polymer electrolyte for Li-metal batteries capable of stable operation over an extended temperature range. <i>Energy Storage Materials</i> , 2021, 37, 609-618.	18.0	49
16	Enabling non-flammable Li-metal batteries <i>via</i> electrolyte functionalization and interface engineering. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17995-18002.	10.3	46
17	Hierarchical Structure of CuO Nanowires Decorated with Ni(OH) ₂ Supported on Cu Foam for Hydrogen Production via Urea Electrocatalysis. <i>Small Methods</i> , 2022, 6, e2101017.	8.6	43
18	Sodium-rich NASICON-structured cathodes for boosting the energy density and lifespan of sodium-free anode sodium metal batteries. <i>Informa Mater</i> , 2022, 4, .	17.3	41

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19	A Bayesian view on the Hilbert transform and the Kramers-Kronig transform of electrochemical impedance data: Probabilistic estimates and quality scores. <i>Electrochimica Acta</i> , 2020, 357, 136864.	5.2	39
20	P-Substituted $\text{Ba}_{0.95}\text{La}_{0.05}\text{FeO}_{3-\delta}$ as a Cathode Material for SOFCs. <i>ACS Applied Energy Materials</i> , 2019, 2, 5472-5480.	5.1	36
21	Bifunctional Hydrated Gel Electrolyte for Long-Cycling Zn-Ion Battery with NASICON-Type Cathode. <i>Advanced Functional Materials</i> , 2021, 31, 2105717.	14.9	34
22	Vertically aligned 1T phase MoS_2 nanosheet array for high-performance rechargeable aqueous Zn-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 130981.	12.7	32
23	MoSe_2 nanosheets embedded in nitrogen/phosphorus co-doped carbon/graphene composite anodes for ultrafast sodium storage. <i>Journal of Power Sources</i> , 2020, 476, 228660.	7.8	28
24	Stability, Elastic Properties, and the Li Transport Mechanism of the Protonated and Fluorinated Antiperovskite Lithium Conductors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55011-55022.	8.0	28
25	A theoretical study on the stability and ionic conductivity of the $\text{Na}_{11}\text{M}_2\text{PS}_{12}$ (M = Sn, Ge) superionic conductors. <i>Journal of Power Sources</i> , 2019, 409, 94-101.	7.8	27
26	Superionic conduction in low-dimensional-networked anti-perovskites. <i>Energy Storage Materials</i> , 2020, 28, 146-152.	18.0	27
27	Highly conductive and nonflammable composite polymer electrolytes for rechargeable quasi-solid-state Li-metal batteries. <i>Journal of Power Sources</i> , 2020, 464, 228182.	7.8	27
28	Positive/Negative Phototropism: Controllable Molecular Actuators with Different Bending Behavior. <i>CCS Chemistry</i> , 2021, 3, 1491-1500.	7.8	27
29	The Deep-Prior Distribution of Relaxation Times. <i>Journal of the Electrochemical Society</i> , 2020, 167, 026506.	2.9	24
30	Affinity-engineered carbon nanofibers as a scaffold for Na metal anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14757-14768.	10.3	22
31	Enhancing the Intrinsic Activity and Stability of Perovskite Cobaltite at Elevated Temperature Through Surface Stress. <i>Small</i> , 2021, 17, e2104144.	10.0	21
32	The influence of A-site deficiency on the electrochemical properties of $(\text{Ba}_{0.95}\text{La}_{0.05})_{1-x}\text{FeO}_{3-\delta}$ as an intermediate temperature solid oxide fuel cell cathode. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1229-1240.	7.1	21
33	Atomically dispersed materials for rechargeable batteries. <i>Nano Energy</i> , 2020, 76, 105085.	16.0	18
34	Modeling the impedance spectra of mixed conducting thin films with exposed and embedded current collectors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26310-26321.	2.8	17
35	Quasi-solid electrolytes with tailored lithium solvation for fast-charging lithium metal batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100722.	5.6	15
36	Neural ordinary differential equations and recurrent neural networks for predicting the state of health of batteries. <i>Journal of Energy Storage</i> , 2022, 50, 104209.	8.1	15

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37	Tailoring the interfacial active center of $MnS_xO_{2-x}/MnCo_2S_4$ heterostructure to boost the performance for oxygen evolution reaction and Zn-Air batteries in neutral electrolyte. <i>Chemical Engineering Journal</i> , 2022, 427, 131966.	12.7	13
38	Nonflammable, robust and flexible electrolytes enabled by phosphate coupled polymer-polymer for Li-metal batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 222-231.	9.4	11
39	Introducing Ag in $Ba_{0.9}La_{0.1}FeO_3$: Combining cationic substitution with metal particle decoration. <i>Materials Reports Energy</i> , 2021, 1, 100018.	3.2	6
40	Enhancing Ni Exsolution by Nonmetal B-Site Substituents (Si and P) in $SrTiO_3$ -Based Solid Oxide Fuel Cell Anodes. <i>Energy & Fuels</i> , 2021, 35, 15084-15093.	5.1	6
41	Functionalized Metal-Supported Reversible Protonic Ceramic Cells with Exceptional Performance and Durability. <i>Advanced Energy and Sustainability Research</i> , 0, , 2100171.	5.8	2