

Lei Zhang

List of Publications by Year in descending order

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33
papers

2,518
citations

361413

20
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

3697
citing authors

#	ARTICLE	IF	CITATIONS
1	Dislocation-Pipe Diffusion of Protons in Hydrated Yttrium-Doped Barium Zirconate Simulated by Reactive Molecular Dynamics. <i>ACS Applied Energy Materials</i> , 2022, 5, 7269-7276.	5.1	0
2	Dense and Low Oxygen Permeability Bilayer Ceramic Interconnect for Tubular Anode-Support Solid Oxide Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 341-349.	5.1	1
3	Spherical sodium metal deposition and growth mechanism study in three-electrode sodium-ion full-cell system. <i>Journal of Power Sources</i> , 2020, 455, 227919.	7.8	9
4	A New Family of Proton-Conducting Electrolytes for Reversible Solid Oxide Cells: BaHf _x Ce _{0.8} Y _{0.1} Yb _{0.1} O _{3-δ} . <i>Advanced Functional Materials</i> , 2020, 30, 2002265.	14.9	46
5	Enhanced Ionic Transport and Structural Stability of Nb-Doped O ₃ -NaFe _{0.55} Mn _{0.45} Nb ₂ O ₁₀ Cathode Material for Long-Lasting Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 3770-3778.	5.1	35
6	Design and understanding of dendritic mixed-metal hydroxide nanosheets@N-doped carbon nanotube array electrode for high-performance asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2019, 16, 632-645.	18.0	225
7	Fast Oxygen Transport in Bottlelike Channels for Y-Doped BaZrO ₃ : A Reactive Molecular Dynamics Investigation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25611-25617.	3.1	11
8	The Structure of Oxygen Vacancies in the Near-Surface of Reduced CeO ₂ (111) Under Strain. <i>Frontiers in Chemistry</i> , 2019, 7, 436.	3.6	34
9	Zn(Cu)Si ₂ P ₃ Solid Solution Anodes for High-Performance Li-ion Batteries with Tunable Working Potentials. <i>Advanced Functional Materials</i> , 2019, 29, 1903638.	14.9	14
10	Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides. <i>Advanced Functional Materials</i> , 2019, 29, 1901783.	14.9	152
11	A new family of cation-disordered Zn(Cu)SiP compounds as high-performance anodes for next-generation Li-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 2286-2297.	30.8	53
12	Structural design of Ge-based anodes with chemical bonding for high-performance Na-ion batteries. <i>Energy Storage Materials</i> , 2019, 20, 380-387.	18.0	33
13	Cu@Pt catalysts prepared by galvanic replacement of polyhedral copper nanoparticles for polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2019, 306, 167-174.	5.2	30
14	Uncovering the Effect of Lattice Strain and Oxygen Deficiency on Electrocatalytic Activity of Perovskite Cobaltite Thin Films. <i>Advanced Science</i> , 2019, 6, 1801898.	11.2	136
15	A Facile and Environmentally Friendly One-Pot Synthesis of Pt Surface-Enriched Pt-Pd(x)/C Catalyst for Oxygen Reduction. <i>Electrocatalysis</i> , 2018, 9, 495-504.	3.0	16
16	Rational Design of Nickel Hydroxide-Based Nanocrystals on Graphene for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702247.	19.5	211
17	A Highly Efficient Multi-phase Catalyst Dramatically Enhances the Rate of Oxygen Reduction. <i>Joule</i> , 2018, 2, 938-949.	24.0	221
18	An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1704907.	14.9	82

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19	A robust fuel cell operated on nearly dry methane at 500 Å°C enabled by synergistic thermal catalysis and electrocatalysis. <i>Nature Energy</i> , 2018, 3, 1042-1050.	39.5	230
20	Deceptive Secret Sharing. , 2018, , .		1
21	A tailored double perovskite nanofiber catalyst enables ultrafast oxygen evolution. <i>Nature Communications</i> , 2017, 8, 14586.	12.8	327
22	In situ construction of Ir@Pt/C nanoparticles in the cathode layer of membrane electrode assemblies with ultra-low Pt loading and high Pt exposure. <i>Journal of Power Sources</i> , 2017, 355, 83-89.	7.8	45
23	A durable polyvinyl butyral-CsH ₂ PO ₄ composite electrolyte for solid acid fuel cells. <i>Journal of Power Sources</i> , 2017, 359, 1-6.	7.8	9
24	Resonant Equilibrium Configurations in Quasi-Periodic Media: KAM Theory. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 597-625.	1.9	4
25	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2017, 10, 964-971.	30.8	204
26	Toward a New Generation of Intermediate-Temperature Fuel Cells. <i>ECS Transactions</i> , 2017, 78, 1821-1829.	0.5	0
27	Co,N-codoped graphene as efficient electrocatalyst for hydrogen evolution reaction: Insight into the active centre. <i>Journal of Power Sources</i> , 2017, 363, 260-268.	7.8	55
28	Atmospheric plasma-sprayed BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ (BZCYyb) electrolyte membranes for intermediate-temperature solid oxide fuel cells. <i>Ceramics International</i> , 2016, 42, 19231-19236.	4.8	19
29	Rationally Designed 3D Fe and N Codoped Graphene with Superior Electrocatalytic Activity toward Oxygen Reduction. <i>Small</i> , 2016, 12, 2549-2553.	10.0	33
30	Resonant Equilibrium Configurations in Quasi-periodic Media: Perturbative Expansions. <i>Journal of Statistical Physics</i> , 2016, 162, 1522-1538.	1.2	5
31	⁶⁴ Cu-Doped PdCu@Au Tripods: A Multifunctional Nanomaterial for Positron Emission Tomography and Image-Guided Photothermal Cancer Treatment. <i>ACS Nano</i> , 2016, 10, 3121-3131.	14.6	96
32	Five-Fold Twinned Pd Nanorods and Their Use as Templates for the Synthesis of Bimetallic or Hollow Nanostructures. <i>ChemNanoMat</i> , 2015, 1, 246-252.	2.8	30
33	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. <i>ACS Energy Letters</i> , 0, , 1511-1520.	17.4	109