Chao Han

List of Publications by Year
in descending order

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42 papers	2,428 citations	186209 28 h-index	265120 42 g-index
43 all docs	43 docs citations	43 times ranked	3352 citing authors

#	Article	IF	Citations
1	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. Small, 2019, 15, e1900470.	5.2	226
2	Principals and strategies for constructing a highly reversible zinc metal anode in aqueous batteries. Nano Energy, 2020, 74, 104880.	8.2	225
3	Thermoelectric Enhancement of Different Kinds of Metal Chalcogenides. Advanced Energy Materials, 2016, 6, 1600498.	10.2	145
4	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. Science Advances, 2021, 7, eabl3742.	4.7	145
5	High-performance and flexible thermoelectric films by screen printing solution-processed nanoplate crystals. Scientific Reports, 2016, 6, 33135.	1.6	141
6	Electron Delocalization and Dissolutionâ€Restraint in Vanadium Oxide Superlattices to Boost Electrochemical Performance of Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001852.	10.2	125
7	Commercial Prospects of Existing Cathode Materials for Sodium Ion Storage. Advanced Energy Materials, 2017, 7, 1700274.	10.2	118
8	Recent progress in thermoelectric materials. Science Bulletin, 2014, 59, 2073-2091.	1.7	113
9	Controlled synthesis of copper telluride nanostructures for long-cycling anodes in lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 11683.	5.2	94
10	Design strategies for developing non-precious metal based bi-functional catalysts for alkaline electrolyte based zincâ€“air batteries. Materials Horizons, 2019, 6, 1812-1827.	6.4	79
11	Ambient Scalable Synthesis of Surfactant-Free Thermoelectric CuAgSe Nanoparticles with Reversible Metallic-n-p Conductivity Transition. Journal of the American Chemical Society, 2014, 136, 17626-17633.	6.6	76
12	Free-Standing Three-Dimensional CuCo₂S₄ Nanosheet Array with High Catalytic Activity as an Efficient Oxygen Electrode for Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 3834-3842.	4.0	75
13	Boosting the efficiency of quantum dot sensitized solar cells up to 7.11% through simultaneous engineering of photocathode and photoanode. Nano Energy, 2015, 13, 609-619.	8.2	72
14	Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. Advanced Energy Materials, 2020, 10, 1903006.	10.2	67
15	Robust scalable synthesis of surfactant-free thermoelectric metal chalcogenide nanostructures. Nano Energy, 2015, 15, 193-204.	8.2	53
16	High-Performance PbTe Thermoelectric Films by Scalable and Low-Cost Printing. ACS Energy Letters, 2018, 3, 818-822.	8.8	53
17	Cuprous ion (Cu+) doping induced surface/interface engineering for enhancing the CO2 photoreduction capability of W18O49 nanowires. Journal of Colloid and Interface Science, 2020, 572, 306-317.	5.0	50
18	Graphiteâ€Nanoplateâ€Coated Bi₂S₃ Composite with Highâ€Volume Energy Density and Excellent Cycle Life for Roomâ€Temperature Sodiumâ€“Sulfide Batteries. Chemistry - A European Journal, 2016, 22, 590-597.	1.7	48

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19	Catalytic Activity Boosting of Nickel Sulfide toward Oxygen Evolution Reaction via Confined Overdoping Engineering. ACS Applied Energy Materials, 2019, 2, 5363-5372.	2.5	48
20	Remarkable Enhancement in Sodiumâ€ion Kinetics of NaFe₂(CN)₆ by Chemical Bonding with Graphene. Small Methods, 2018, 2, 1700346.	4.6	40
21	Ambient synthesis of a multifunctional 1D/2D hierarchical Agâ€“Ag₂S nanowire/nanosheet heterostructure with diverse applications. CrystEngComm, 2016, 18, 930-937.	1.3	38
22	Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metalâ€“air battery systems. Journal of Materials Chemistry A, 2021, 9, 6671-6693.	5.2	37
23	Effects of nanostructure on clean energy: big solutions gained from small features. Science Bulletin, 2015, 60, 2083-2090.	4.3	35
24	Enhanced thermoelectric performance through synergy of resonance levels and valence band convergence via Q/In (Q = Mg, Ag, Bi) co-doping. Journal of Materials Chemistry A, 2018, 6, 2507-2516.	5.2	34
25	Multiscale architectures boosting thermoelectric performance of copper sulfide compound. Rare Metals, 2021, 40, 2017-2025.	3.6	33
26	Three-Dimensional Electronic Network Assisted by TiN Conductive Pillars and Chemical Adsorption to Boost the Electrochemical Performance of Red Phosphorus. ACS Nano, 2020, 14, 4609-4617.	7.3	31
27	Ambient Aqueous Growth of Cu₂Te Nanostructures with Excellent Electrocatalytic Activity toward Sulfide Redox Shuttles. Advanced Science, 2016, 3, 1500350.	5.6	30
28	A 1D/2D WO₃ nanostructure coupled with a nanoparticulate CuO cocatalyst for enhancing solar-driven CO₂ photoreduction: the impact of the crystal facet. Sustainable Energy and Fuels, 2020, 4, 2593-2603.	2.5	29
29	A P3-Type K_{1/2}Mn_{5/6}Mg_{1/12}Ni_{1/12}O₂ Cathode Material for Potassium-Ion Batteries with High Structural Reversibility Secured by the Mgâ€“Ni Pinning Effect. ACS Applied Materials & Interfaces, 2021, 13, 28369-28377.	4.0	29
30	Hot corrosion behavior of Niâ€“16Crâ€“xAl based alloys in mixture of Na2SO4â€“NaCl at 600 Â°C. Transactions of Nonferrous Metals Society of China, 2011, 21, 2617-2625.	1.7	22
31	Effects of carbon on electrochemical performance of red phosphorus (P) and carbon composite as anode for sodium ion batteries. Journal of Materials Science and Technology, 2021, 68, 140-146.	5.6	20
32	Recent Progress on Two-Dimensional Carbon Materials for Emerging Post-Lithium (Na+, K+, Zn2+) Hybrid Supercapacitors. Polymers, 2021, 13, 2137.	2.0	19
33	Boron leaching: Creating vacancy-rich Ni for enhanced hydrogen evolution. Nano Research, 2022, 15, 1868-1873.	5.8	18
34	Achieving solar-to-hydrogen evolution promotion using TiO2 nanoparticles and an unanchored Cu co-catalyst. Materials Research Bulletin, 2020, 129, 110891.	2.7	15
35	2D boron nanosheet architectonics: opening new territories by smart functionalization. Journal of Materials Chemistry A, 2022, 10, 2736-2750.	5.2	12
36	Hot corrosion behavior of Ni-xCr-6.8Al based alloys. Transactions of Nonferrous Metals Society of China, 2011, 21, 2348-2357.	1.7	8

#	Article	IF	Citations
37	Oxidation behaviors of Ni-Cr-Al superalloy foams at 1 000 Â°C in air. Journal of Central South University, 2013, 20, 3345-3353.	1.2	7
38	Improving the Energy Density and Efficiency of the Linear Polymer PMMA with a Double-Bond Fluoropolymer at Elevated Temperatures. ACS Omega, 2021, 6, 35014-35022.	1.6	6
39	First Observation of Low-Temperature Magnetic Transition in CuAgSe. Journal of Physical Chemistry C, 2018, 122, 19139-19145.	1.5	4
40	Simply Coupling TiO₂ Nanospheres with Cu₂O Particles to Boost the Photocatalytic Hydrogen Evolution through pâ€“n Heterojunctionâ€induced Charge Transfer. Energy Technology, 2022, 10, 2100259.	1.8	4
41	Metal Chalcogenides: Thermoelectric Enhancement of Different Kinds of Metal Chalcogenides (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	10.2	2
42	Application Prospects of Thermoelectric Technique. Research & Development in Material Science, 2018, 3, .	0.1	0