

Chao Han

List of Publications by Year in descending order

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42
papers

2,428
citations

186209

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265120

42
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43
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43
docs citations

43
times ranked

3352
citing authors

#	ARTICLE	IF	CITATIONS
1	Simply Coupling TiO ₂ Nanospheres with Cu ₂ O Particles to Boost the Photocatalytic Hydrogen Evolution through π -n Heterojunction-Induced Charge Transfer. <i>Energy Technology</i> , 2022, 10, 2100259.	1.8	4
2	Boron leaching: Creating vacancy-rich Ni for enhanced hydrogen evolution. <i>Nano Research</i> , 2022, 15, 1868-1873.	5.8	18
3	2D boron nanosheet architectonics: opening new territories by smart functionalization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2736-2750.	5.2	12
4	Effects of carbon on electrochemical performance of red phosphorus (P) and carbon composite as anode for sodium ion batteries. <i>Journal of Materials Science and Technology</i> , 2021, 68, 140-146.	5.6	20
5	Multiscale architectures boosting thermoelectric performance of copper sulfide compound. <i>Rare Metals</i> , 2021, 40, 2017-2025.	3.6	33
6	A P3-Type K _{1/2} Mn _{5/6} Mg _{1/12} Ni _{1/12} O ₂ Cathode Material for Potassium-Ion Batteries with High Structural Reversibility Secured by the Mg π -Ni Pinning Effect. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28369-28377.	4.0	29
7	Recent Progress on Two-Dimensional Carbon Materials for Emerging Post-Lithium (Na ⁺ , K ⁺ , Zn ²⁺) Hybrid Supercapacitors. <i>Polymers</i> , 2021, 13, 2137.	2.0	19
8	Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metal-air battery systems. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6671-6693.	5.2	37
9	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. <i>Science Advances</i> , 2021, 7, eabl3742.	4.7	145
10	Improving the Energy Density and Efficiency of the Linear Polymer PMMA with a Double-Bond Fluoropolymer at Elevated Temperatures. <i>ACS Omega</i> , 2021, 6, 35014-35022.	1.6	6
11	Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. <i>Advanced Energy Materials</i> , 2020, 10, 1903006.	10.2	67
12	Electron Delocalization and Dissolution- π -Restraint in Vanadium Oxide Superlattices to Boost Electrochemical Performance of Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001852.	10.2	125
13	Principals and strategies for constructing a highly reversible zinc metal anode in aqueous batteries. <i>Nano Energy</i> , 2020, 74, 104880.	8.2	225
14	A 1D/2D WO ₃ nanostructure coupled with a nanoparticulate CuO cocatalyst for enhancing solar-driven CO ₂ photoreduction: the impact of the crystal facet. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2593-2603.	2.5	29
15	Three-Dimensional Electronic Network Assisted by TiN Conductive Pillars and Chemical Adsorption to Boost the Electrochemical Performance of Red Phosphorus. <i>ACS Nano</i> , 2020, 14, 4609-4617.	7.3	31
16	Cuprous ion (Cu ⁺) doping induced surface/interface engineering for enhancing the CO ₂ photoreduction capability of W ₁₈ O ₄₉ nanowires. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 306-317.	5.0	50
17	Achieving solar-to-hydrogen evolution promotion using TiO ₂ nanoparticles and an unanchored Cu co-catalyst. <i>Materials Research Bulletin</i> , 2020, 129, 110891.	2.7	15
18	Catalytic Activity Boosting of Nickel Sulfide toward Oxygen Evolution Reaction via Confined Overdoping Engineering. <i>ACS Applied Energy Materials</i> , 2019, 2, 5363-5372.	2.5	48

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19	Design strategies for developing non-precious metal based bi-functional catalysts for alkaline electrolyte based zinc-air batteries. <i>Materials Horizons</i> , 2019, 6, 1812-1827.	6.4	79
20	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. <i>Small</i> , 2019, 15, e1900470.	5.2	226
21	Free-Standing Three-Dimensional CuCo ₂ S ₄ Nanosheet Array with High Catalytic Activity as an Efficient Oxygen Electrode for Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3834-3842.	4.0	75
22	High-Performance PbTe Thermoelectric Films by Scalable and Low-Cost Printing. <i>ACS Energy Letters</i> , 2018, 3, 818-822.	8.8	53
23	Remarkable Enhancement in Sodium-Ion Kinetics of NaFe ₂ (CN) ₆ by Chemical Bonding with Graphene. <i>Small Methods</i> , 2018, 2, 1700346.	4.6	40
24	Enhanced thermoelectric performance through synergy of resonance levels and valence band convergence via Q/ln (Q = Mg, Ag, Bi) co-doping. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2507-2516.	5.2	34
25	First Observation of Low-Temperature Magnetic Transition in CuAgSe. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19139-19145.	1.5	4
26	Application Prospects of Thermoelectric Technique. <i>Research & Development in Material Science</i> , 2018, 3, .	0.1	0
27	Commercial Prospects of Existing Cathode Materials for Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1700274.	10.2	118
28	Thermoelectric Enhancement of Different Kinds of Metal Chalcogenides. <i>Advanced Energy Materials</i> , 2016, 6, 1600498.	10.2	145
29	Graphite-Nanoplate-Coated Bi ₂ S ₃ Composite with High-Volume Energy Density and Excellent Cycle Life for Room-Temperature Sodium-Sulfide Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 590-597.	1.7	48
30	Metal Chalcogenides: Thermoelectric Enhancement of Different Kinds of Metal Chalcogenides (Adv.) <i>Tj ETQqO O 0 rgBT /Overlock 10 Tf 5</i>	10.2	2
31	Ambient Aqueous Growth of Cu ₂ Te Nanostructures with Excellent Electrocatalytic Activity toward Sulfide Redox Shuttles. <i>Advanced Science</i> , 2016, 3, 1500350.	5.6	30
32	High-performance and flexible thermoelectric films by screen printing solution-processed nanoplate crystals. <i>Scientific Reports</i> , 2016, 6, 33135.	1.6	141
33	Ambient synthesis of a multifunctional 1D/2D hierarchical Ag-Ag ₂ S nanowire/nanosheet heterostructure with diverse applications. <i>CrystEngComm</i> , 2016, 18, 930-937.	1.3	38
34	Effects of nanostructure on clean energy: big solutions gained from small features. <i>Science Bulletin</i> , 2015, 60, 2083-2090.	4.3	35
35	Robust scalable synthesis of surfactant-free thermoelectric metal chalcogenide nanostructures. <i>Nano Energy</i> , 2015, 15, 193-204.	8.2	53
36	Boosting the efficiency of quantum dot sensitized solar cells up to 7.11% through simultaneous engineering of photocathode and photoanode. <i>Nano Energy</i> , 2015, 13, 609-619.	8.2	72

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37	Ambient Scalable Synthesis of Surfactant-Free Thermoelectric CuAgSe Nanoparticles with Reversible Metallic-<i>n-p</i> Conductivity Transition. Journal of the American Chemical Society, 2014, 136, 17626-17633.	6.6	76
38	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
39	Recent progress in thermoelectric materials. Science Bulletin, 2014, 59, 2073-2091.	1.7	113
40	Oxidation behaviors of Ni-Cr-Al superalloy foams at 1 000 Å°C in air. Journal of Central South University, 2013, 20, 3345-3353.	1.2	7
41	Hot corrosion behavior of Ni-xCr-6.8Al based alloys. Transactions of Nonferrous Metals Society of China, 2011, 21, 2348-2357.	1.7	8
42	Hot corrosion behavior of Niâ€“16Crâ€“xAl based alloys in mixture of Na ₂ SO ₄ â€“NaCl at 600 Å°C. Transactions of Nonferrous Metals Society of China, 2011, 21, 2617-2625.	1.7	22