Chaochao Dun

List of Publications by Year
in descending order

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54 papers	2,721 citations	236925 25 h-index	182427 51 g-index
61 all docs	61 docs citations	61 times ranked	4293 citing authors

#	Article	IF	Citations
1	Metallic 1T phase MoS2 nanosheets for high-performance thermoelectric energy harvesting. Nano Energy, 2016, 26, 172-179.	16.0	178
2	Ultrathin, Washable, and Largeâ€Area Graphene Papers for Personal Thermal Management. Small, 2017, 13, 1702645.	10.0	177
3	Flexible n-type thermoelectric films based on Cu-doped Bi2Se3 nanoplate and Polyvinylidene Fluoride composite with decoupled Seebeck coefficient and electrical conductivity. Nano Energy, 2015, 18, 306-314.	16.0	119
4	Layered Bi₂Se₃ Nanoplate/Polyvinylidene Fluoride Composite Based n-type Thermoelectric Fabrics. ACS Applied Materials & Interfaces, 2015, 7, 7054-7059.	8.0	108
5	Flexible thermoelectric fabrics based on self-assembled tellurium nanorods with a large power factor. Physical Chemistry Chemical Physics, 2015, 17, 8591-8595.	2.8	105
6	Scalable neutral H2O2 electrosynthesis by platinum diphosphide nanocrystals by regulating oxygen reduction reaction pathways. Nature Communications, 2020, 11, 3928.	12.8	101
7	Enhanced stabilization of inorganic cesium lead triiodide (CsPbI3) perovskite quantum dots with tri-octylphosphine. Nano Research, 2018, 11, 762-768.	10.4	94
8	Flexible Thermoelectric Devices of Ultrahigh Power Factor by Scalable Printing and Interface Engineering. Advanced Functional Materials, 2020, 30, 1905796.	14.9	93
9	Nanowires as Building Blocks to Fabricate Flexible Thermoelectric Fabric: The Case of Copper Telluride Nanowires. ACS Applied Materials & Interfaces, 2015, 7, 21015-21020.	8.0	90
10	3D Conformal Printing and Photonic Sintering of Highâ€Performance Flexible Thermoelectric Films Using 2D Nanoplates. Advanced Functional Materials, 2019, 29, 1901930.	14.9	89
11	Solution-based synthesis and processing of Sn- and Bi-doped Cu₃SbSe<sub>4</sbnanocrystals, nanomaterials and ring-shaped thermoelectric generators. Journal of Materials Chemistry A, 2017, 5, 2592-2602.	10.3	73
12	Insights into the Mechanism of Methanol Steam Reforming Tandem Reaction over CeO₂ Supported Single-Site Catalysts. Journal of the American Chemical Society, 2021, 143, 12074-12081.	13.7	70
13	Wearable Thermoelectric Devices Based on Au-Decorated Two-Dimensional MoS₂. ACS Applied Materials & Interfaces, 2018, 10, 33316-33321.	8.0	57
14	2D Chalcogenide Nanoplate Assemblies for Thermoelectric Applications. Advanced Materials, 2017, 29, 1700070.	21.0	54
15	Bi_{0.5}Sb_{1.5}Te₃-based films for flexible thermoelectric devices. Journal of Materials Chemistry A, 2020, 8, 4552-4561.	10.3	53
16	Synthesis of new <scp>twoâ€dimensional</scp> titanium carbonitride <scp>Ti₂C₀</scp>_.<scp>₅N₀</scp>_{.5}T_x and its performance as an electrode material for <scp>sodiumâ€ion</scp> battery. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1422-1430.	17.3	49
17	High-Performance, Wearable Thermoelectric Generator Based on a Highly Aligned Carbon Nanotube Sheet. ACS Applied Energy Materials, 2020, 3, 1199-1206.	5.1	43
18	Mismatching integration-enabled strains and defects engineering in LDH microstructure for high-rate and long-life charge storage. Nature Communications, 2022, 13, 1409.	12.8	42

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19	Covalent Organic Frameworks with Irreversible Linkages via Reductive Cyclization of Imines. Journal of the American Chemical Society, 2022, 144, 9827-9835.	13.7	39
20	Lightweight wearable thermoelectric cooler with rationally designed flexible heatsink consisting of phase-change material/graphite/silicone elastomer. Journal of Materials Chemistry A, 2021, 9, 15696-15703.	10.3	35
21	Selfâ€Assembled Heterostructures: Selective Growth of Metallic Nanoparticles on V₂â€“VI₃ Nanoplates. Advanced Materials, 2017, 29, 1702968.	21.0	34
22	3D Printing of Solutionâ€Processable 2D Nanoplates and 1D Nanorods for Flexible Thermoelectrics with Ultrahigh Power Factor at Lowâ€Medium Temperatures. Advanced Science, 2019, 6, 1901788.	11.2	33
23	Lattice Strain Enhances Thermoelectric Properties in Sb₂Te₃/Te Heterostructure. Advanced Electronic Materials, 2020, 6, 1900735.	5.1	28
24	Controllable Colloidal Synthesis of Tin(II) Chalcogenide Nanocrystals and Their Solutionâ€Processed Flexible Thermoelectric Thin Films. Small, 2018, 14, e1801949.	10.0	26
25	Cu2ZnSnSxO4â^'x and Cu2ZnSnSxSe4â^'x: First principles simulations of optimal alloy configurations and their energies. Journal of Applied Physics, 2014, 115, .	2.5	22
26	Achieving High Performance in AC-Field Driven Organic Light Sources. Scientific Reports, 2016, 6, 24116.	3.3	18
27	Controllable colloidal synthesis of anisotropic tin dichalcogenide nanocrystals for thin film thermoelectrics. Nanoscale, 2018, 10, 2533-2541.	5.6	17
28	Environmentally benign synthesis of high-quality, band gap-tunable, homogeneous Te/Se alloyed nanowires. RSC Advances, 2015, 5, 69268-69272.	3.6	16
29	Bi₂Te₃ Plates with Single Nanopore: The Formation of Surface Defects and Self-Repair Growth. Chemistry of Materials, 2018, 30, 1965-1970.	6.7	16
30	Formation of Hexagonal PdSe₂ for Electronics and Catalysis. Journal of Physical Chemistry C, 2020, 124, 10935-10940.	3.1	16
31	Origins of Minimized Lattice Thermal Conductivity and Enhanced Thermoelectric Performance in WS₂/WSe₂ Lateral Superlattice. ACS Omega, 2021, 6, 7879-7886.	3.5	15
32	Spontaneous dynamical disordering of borophenes in MgB2 and related metal borides. Nature Communications, 2021, 12, 6268.	12.8	14
33	Dimensional Control over Metal Halide Perovskite Crystallization Guided by Active Learning. Chemistry of Materials, 2022, 34, 756-767.	6.7	13
34	Layered, Nanonetwork Composite Cathodes for Flexible, Highâ€Efficiency, Organic Light Emitting Devices. Advanced Functional Materials, 2015, 25, 4397-4404.	14.9	12
35	Chemical upgrade of carbon monoxide to acetate on an atomically dispersed copper catalyst via CO-insertion. Materials Today Physics, 2021, 19, 100418.	6.0	12
36	Interface Engineering of Colloidal CdSe Quantum Dot Thin Films as Acid-Stable Photocathodes for Solar-Driven Hydrogen Evolution. ACS Applied Materials & Interfaces, 2018, 10, 17129-17139.	8.0	11

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37	Defying Thermodynamics: Stabilization of Alane Within Covalent Triazine Frameworks for Reversible Hydrogen Storage. Angewandte Chemie - International Edition, 2021, 60, 25815-25824.	13.8	11
38	Defect Engineering by Codoping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>KCaI</mml:mi></mml:mrow><mml:mrow><mml:mn>3< Single-Crystalline Scintillators. Physical Review Applied, 2017, 8, .	3.8	10
39	Polymer Gating White Flexible Fieldâ€Induced Lighting Device. Advanced Materials Technologies, 2017, 2, 1700017.	5.8	8
40	Binary and Ternary Colloidal Cuâ€Snâ€Te Nanocrystals for Thermoelectric Thin Films. Small, 2021, 17, e2006729.	10.0	8
41	Hydrogen Storage Performance of Preferentially Oriented Mg/rGO Hybrids. Chemistry of Materials, 2022, 34, 2963-2971.	6.7	8
42	Synthesis of 2D anatase TiO₂ with highly reactive facets by fluorine-free topochemical conversion of 1T-TiS₂ nanosheets. Journal of Materials Chemistry A, 2022, 10, 13884-13894.	10.3	7
43	In Situ Electrical Propertiesâ€™ Investigation and Nanofabrication of Ag/Sb₂Te₃ Assembled Multilayersâ€™ Film. Advanced Materials Interfaces, 2018, 5, 1701210.	3.7	6
44	Copper sulfide as the cation exchange template for synthesis of bimetallic catalysts for CO₂electroreduction. RSC Advances, 2021, 11, 23948-23959.	3.6	6
45	Additive Destabilization of Porous Magnesium Borohydride Framework with Coreâ€Shell Structure. Small, 2021, 17, e2101989.	10.0	6
46	Layered Nanoâ€Mosaic of Niobium Disulfide Heterostructures by Direct Sulfidation of Niobium Carbide MXenes for Hydrogen Evolution. Advanced Materials Interfaces, 2022, 9, .	3.7	6
47	Solution Processing Smallâ€Molecule Organic Emitter in Fieldâ€Induced, Carrier Gated Lighting Devices. Advanced Optical Materials, 2017, 5, 1600917.	7.3	5
48	Topological doping effects in 2D chalcogenide thermoelectrics. 2D Materials, 2018, 5, 045008.	4.4	5
49	Synthesis and characterization of Ar-annealed zinc oxide nanostructures. AIP Advances, 2016, 6, .	1.3	2
50	2D Chalcogenides: 2D Chalcogenide Nanoplate Assemblies for Thermoelectric Applications (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	2
51	Defying Thermodynamics: Stabilization of Alane Within Covalent Triazine Frameworks for Reversible Hydrogen Storage. Angewandte Chemie, 2021, 133, 26019-26028.	2.0	2
52	Organic Electronics: Layered, Nanonetwork Composite Cathodes for Flexible, Highâ€Efficiency, Organic Light Emitting Devices (Adv. Funct. Mater. 28/2015). Advanced Functional Materials, 2015, 25, 4370-4370.	14.9	0
53	RÃ¼cktitelbild: Defying Thermodynamics: Stabilization of Alane Within Covalent Triazine Frameworks for Reversible Hydrogen Storage (Angew. Chem. 49/2021). Angewandte Chemie, 2021, 133, 26204-26204.	2.0	0
54	Back Cover Image. InformaÄnÃ-MateriÃ¡ly, 2021, 3, .	17.3	0