Shufang Wang

List of Publications by Year
in descending order

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39 papers	1,239 citations	471509 17 h-index	361022 35 g-index
39 all docs	39 docs citations	39 times ranked	1646 citing authors

#	Article	IF	Citations
1	Selective light absorber-assisted single nickel atom catalysts for ambient sunlight-driven CO2 methanation. Nature Communications, 2019, 10, 2359.	12.8	185
2	A vertically layered MoS₂/Si heterojunction for an ultrahigh and ultrafast photoresponse photodetector. Journal of Materials Chemistry C, 2018, 6, 3233-3239.	5.5	132
3	Triple Functions of Ni(OH)₂ on the Surface of WN Nanowires Remarkably Promoting Electrocatalytic Activity in Full Water Splitting. ACS Catalysis, 2020, 10, 13323-13333.	11.2	120
4	Passivation of defect states in anatase TiO2 hollow spheres with Mg doping: Realizing efficient photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2017, 202, 127-133.	20.2	117
5	Ultrahigh, Ultrafast, and Selfâ€Powered Visibleâ€Nearâ€Infrared Optical Positionâ€Sensitive Detector Based on a CVDâ€Prepared Vertically Standing Fewâ€Layer MoS₂/Si Heterojunction. Advanced Science, 2018, 5, 1700502.	11.2	87
6	Large Lateral Photovoltage Observed in MoS₂ Thickness-Modulated ITO/MoS₂/p-Si Heterojunctions. ACS Applied Materials & Interfaces, 2017, 9, 18377-18387.	8.0	68
7	Significant average ZT enhancement in Cu₃SbSe₄-based thermoelectric material via softening pâ€“d hybridization. Journal of Materials Chemistry A, 2019, 7, 17648-17654.	10.3	41
8	Laser-induced voltage characteristics of Bi2Sr2Co2Oy thin films on LaAlO3 substrates. Applied Surface Science, 2010, 257, 157-159.	6.1	40
9	Ultrahigh, ultrafast and large response size visible-near-infrared optical position sensitive detectors based on CIGS structures. Journal of Materials Chemistry C, 2017, 5, 4915-4922.	5.5	40
10	Fe3Si assisted Co3O4 nanorods: A case study of photothermal catalytic CO oxidation under ambient solar irradiation. Nano Energy, 2019, 62, 653-659.	16.0	36
11	A 2D-SnSe film with ferroelectricity and its bio-realistic synapse application. Nanoscale, 2020, 12, 21913-21922.	5.6	28
12	Laser-induced photoresistance effect in Si-based vertical standing MoS₂ nanoplate heterojunctions for self-powered high performance broadband photodetection. Journal of Materials Chemistry C, 2019, 7, 10642-10651.	5.5	24
13	Synthesis of mesoporous Fe₃Si aerogel as a photo-thermal material for highly efficient and stable corrosive-water evaporation. Journal of Materials Chemistry A, 2018, 6, 23263-23269.	10.3	23
14	Outdoor sunlight-driven scalable water-gas shift reaction through novel photothermal device-supported CuO_x/ZnO/Al₂O₃ nanosheets with a hydrogen generation rate of 192 mmol g^{â¯1} h^{â¯1}. Journal of Materials Chemistry A, 2020, 8, 19467-19472.	10.3	23
15	Significant enhancement of energy storage density and polarization in self-assembled PbZrO₃â€‰:â€‰NiO nano-columnar composite films. Nanoscale, 2019, 11, 1914-1920.	5.6	22
16	Epitaxial growth and thermoelectric properties of c-axis oriented Bi_{1â¯x}Pb_xCuSeO single crystalline thin films. CrystEngComm, 2015, 17, 8697-8702.	2.6	18
17	Synthesizing new types of ultrathin 2D metal oxide nanosheets via half-successive ion layer adsorption and reaction. 2D Materials, 2017, 4, 025031.	4.4	18
18	Surprisingly high in-plane thermoelectric performance in a-axis-oriented epitaxial SnSe thin films. Materials Today Physics, 2021, 18, 100399.	6.0	17

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19	Ni loaded on N-doped carbon encapsulated tungsten oxide nanowires as an alkaline-stable electrocatalyst for water reduction. Sustainable Energy and Fuels, 2020, 4, 788-796.	4.9	15
20	Light-induced transverse voltage effect in c-axis inclined BiCuSeO single crystalline thin films. Optical Materials Express, 2016, 6, 558.	3.0	14
21	The Reverse Lateral Photovoltaic Effect in Boron-Diffused Si p-n Junction Structure. IEEE Electron Device Letters, 2016, 37, 201-204.	3.9	14
22	The transverse thermoelectric effect in a-axis inclined oriented SnSe thin films. Journal of Materials Chemistry C, 2018, 6, 12858-12863.	5.5	14
23	Efficient combustion of chlorinated volatile organic compounds driven by natural sunlight. Science of the Total Environment, 2020, 749, 141595.	8.0	14
24	Coke and sintering resistant nickel atomically doped with ceria nanosheets for highly efficient solar driven hydrogen production from bioethanol. Green Chemistry, 2022, 24, 2044-2050.	9.0	14
25	Unveiling the advantages of an ultrathin N-doped carbon shell on self-supported tungsten phosphide nanowire arrays for the hydrogen evolution reaction experimentally and theoretically. Nanoscale, 2022, 14, 5430-5438.	5.6	14
26	Growth of câ€Axisâ€Oriented BiCuSeO Thin Films Directly on Si Wafers. Journal of the American Ceramic Society, 2016, 99, 3367-3370.	3.8	12
27	Ambient sunlight-driven photothermal methanol dehydrogenation for syngas production with 32.9 % solar-to-hydrogen conversion efficiency. IScience, 2021, 24, 102056.	4.1	12
28	The enhancement of photo-thermo-electric conversion in tilted Bi_2Sr_2Co_2Oy thin films through coating a layer of single-wall carbon nanotubes light absorber. Optics Express, 2013, 21, 18336.	3.4	11
29	Lateral photovoltaic effect based on novel materials and external modulations. Journal Physics D: Applied Physics, 2021, 54, 153003.	2.8	11
30	Efficient hydrogen production via sunlight-driven thermal formic acid decomposition over a porous film of molybdenum carbide. Journal of Materials Chemistry A, 2021, 9, 22481-22488.	10.3	9
31	ds-Block Element-Enabled Cooperative Regulation of Electrical and Thermal Transport for Extraordinary N- and P-Type PbSe Thermoelectrics near Room Temperature. Chemistry of Materials, 2022, 34, 1862-1874.	6.7	8
32	Enhanced polarization and dielectricity in BaTiO₃:NiO nanocomposite films modulated by the microstructure. RSC Advances, 2017, 7, 38231-38242.	3.6	7
33	Solar-heating thermocatalytic H₂ production from formic acid by a MoS₂-graphene-nickel foam composite. Green Chemistry, 2021, 23, 7630-7634.	9.0	7
34	Sewage-free preparation of 2D metal oxides by a rapid freezing soft template method for extraordinarily activating solar-driven humidity VOC combustion. Catalysis Science and Technology, 2021, 11, 2456-2460.	4.1	6
35	Mass production of superhydrophilic sponges for efficient and stable solar-driven highly corrosive water evaporation. Environmental Science: Water Research and Technology, 2019, 5, 2041-2047.	2.4	5
36	Weak sunlight-driven mass toluene combustion through scalable Cu doped CeO2 microspheres. Journal of Cleaner Production, 2021, 293, 125328.	9.3	4

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37	Thein situremoval of surface molybdenum oxide for making binder-free porous Mo_{1.98}C_{1.02}film a more efficient electrocatalyst for alkaline rather than acidic hydrogen production. Sustainable Energy and Fuels, 2021, 5, 3373-3381.	4.9	4
38	Ultrahigh in-plane thermoelectric performance in self-assembled PbSe:Au films with vertically aligned nanopillars. Acta Materialia, 2022, 227, 117692.	7.9	4
39	Microstructure and thermoelectric transport properties of BiCuSeO thin films on amorphous glass substrates. Dalton Transactions, 2018, 47, 11091-11096.	3.3	1