Yawei Yang

List of Publications by Year
in descending order

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Version: 2024-02-01

31	1,675	394421 19	454955 30
papers	citations	h-index	g-index

31	31	31	2154
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A hydrophobic surface enabled salt-blocking 2D Ti₃C₂MXene membrane for efficient and stable solar desalination. Journal of Materials Chemistry A, 2018, 6, 16196-16204.	10.3	351
2	A general salt-resistant hydrophilic/hydrophobic nanoporous double layer design for efficient and stable solar water evaporation distillation. Materials Horizons, 2018, 5, 1143-1150.	12.2	232
3	Improved capacitance of nitrogen-doped delaminated two-dimensional titanium carbide by urea-assisted synthesis. Electrochimica Acta, 2017, 225, 416-424.	5.2	120
4	Innovative salt-blocking technologies of photothermal materials in solar-driven interfacial desalination. Journal of Materials Chemistry A, 2021, 9, 16233-16254.	10.3	107
5	Recent advanced self-propelling salt-blocking technologies for passive solar-driven interfacial evaporation desalination systems. Nano Energy, 2021, 89, 106468.	16.0	106
6	Membrane assembled from anti-fouling copper-zinc-tin-selenide nanocarambolas for solar-driven interfacial water evaporation. Chemical Engineering Journal, 2019, 373, 955-962.	12.7	87
7	Facile synthesis of ZnO/CuInS2 nanorod arrays for photocatalytic pollutants degradation. Journal of Hazardous Materials, 2016, 317, 430-439.	12.4	69
8	Recent advances in g-C₃N₄composites within four types of heterojunctions for photocatalytic CO₂reduction. Nanoscale, 2021, 13, 6692-6712.	5.6	68
9	PbS QD-based photodetectors: future-oriented near-infrared detection technology. Journal of Materials Chemistry C, 2021, 9, 417-438.	5.5	64
10	Anchoring of Formamidinium Lead Bromide Quantum Dots on Ti₃C₂ Nanosheets for Efficient Photocatalytic Reduction of CO₂. ACS Applied Materials & Interfaces, 2021, 13, 6180-6187.	8.0	64
11	Size- and Morphology-Dependent Auger Recombination in CsPbBr₃ Perovskite Two-Dimensional Nanoplatelets and One-Dimensional Nanorods. Nano Letters, 2019, 19, 5620-5627.	9.1	53
12	Surface passivation extends single and biexciton lifetimes of InP quantum dots. Chemical Science, 2020, 11, 5779-5789.	7.4	47
13	Construction of High-Quality SnO₂@MoS₂ Nanohybrids for Promising Photoelectrocatalytic Applications. Inorganic Chemistry, 2017, 56, 3386-3393.	4.0	42
14	TiO₂ passivation for improved efficiency and stability of ZnO nanorods based perovskite solar cells. RSC Advances, 2016, 6, 57996-58002.	3.6	41
15	Fabrication of Bi₂Sn₂O₇-ZnO heterostructures with enhanced photocatalytic activity. RSC Advances, 2015, 5, 27576-27583.	3.6	30
16	2D/2D Schottky heterojunction of in-situ growth FAPbBr3/Ti3C2 composites for enhancing photocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2022, 610, 538-545.	9.4	26
17	New architecture of a petal-shaped Nb2O5 nanosheet film on FTO glass for high photocatalytic activity. RSC Advances, 2016, 6, 9581-9588.	3.6	22
18	Shape tailored Cu2ZnSnS4 nanosheet aggregates for high efficiency solar desalination. Materials Research Bulletin, 2019, 118, 110529.	5.2	21

#	Article	IF	Citations
19	Synthesis of high quality CuO nanoflakes and CuOâ€“Au nanohybrids for superior visible light photocatalytic behavior. RSC Advances, 2016, 6, 81607-81613.	3.6	19
20	Construction of ZnO/Cu₂SnS₃ nanorod array films for enhanced photoelectrochemical and photocatalytic activity. RSC Advances, 2016, 6, 104041-104048.	3.6	19
21	Colloidal formamidinium lead bromide quantum dots for photocatalytic CO2 reduction. Materials Letters, 2021, 282, 128695.	2.6	18
22	2D/1D MXene/MWCNT Hybrid Membrane-Based Evaporator for Solar Desalination. Materials, 2022, 15, 929.	2.9	18
23	In Situ Electrosynthesis of MAXâ€Derived Electrocatalysts for Superior Hydrogen Evolution Reaction. Small, 2022, 18, .	10.0	11
24	Facile One-Pot Synthesis of Ternary Copper-Tin-Chalcogenide Quantum Dots on Reduced Graphene Oxide for Enhanced Photocatalytic Activity. Catalysis Letters, 2018, 148, 3112-3118.	2.6	10
25	Solid-state synthesis of ZnO nanorods coupled with reduced graphene oxide for photocatalytic application. Journal of Materials Science: Materials in Electronics, 2018, 29, 4888-4894.	2.2	9
26	Macroporous 3D MXene architecture for solar-driven interfacial water evaporation. Journal of Advanced Dielectrics, 2019, 09, 1950047.	2.4	9
27	Defect engineering-driven phase structure design of 2H@1T MoS2 for electrochemical hydrogen evolution reaction. Materials Letters, 2022, 311, 131624.	2.6	4
28	Flexible organicâ€“inorganic hybrid bioceramic for bone tissue regeneration. Journal of Advanced Dielectrics, 2020, 10, 2050013.	2.4	3
29	Fabrication of Nanoparticle/Polymer Composite Photocatalytic Membrane for Domestic Sewage In Situ Treatment. Materials, 2022, 15, 2466.	2.9	3
30	Reversible photoactivation in coordination polymer-derived CdS/Coâ€“N species composites for enhanced photocatalytic hydrogen evolution. Sustainable Energy and Fuels, 2020, 4, 2559-2568.	4.9	2
31	Passive Solar-driven Interfacial Evaporation Nanosystems: Beyond Desalination Towards Multiple Applications. Recent Patents on Nanotechnology, 2022, 16, .	1.3	0