

Hongzhi Cui

List of Publications by Year in descending order

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141
papers

8,003
citations

34076

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all docs

141
docs citations

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times ranked

8041
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#	ARTICLE	IF	CITATIONS
1	2D/2D/2D heterojunction of Ti ₃ C ₂ MXene/MoS ₂ nanosheets/TiO ₂ nanosheets with exposed (001) facets toward enhanced photocatalytic hydrogen production activity. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 12-20.	10.8	373
2	3D Bi ₂ MoO ₆ Nanosheet/TiO ₂ Nanobelt Heterostructure: Enhanced Photocatalytic Activities and Photoelectrochemistry Performance. <i>ACS Catalysis</i> , 2015, 5, 4530-4536.	5.5	323
3	Boosting the Photocatalytic Ability of g-C ₃ N ₄ for Hydrogen Production by Ti ₃ C ₂ MXene Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41440-41447.	4.0	289
4	Ti ₃ C ₂ MXene-derived Ti ₃ C ₂ /TiO ₂ nanoflowers for noble-metal-free photocatalytic overall water splitting. <i>Applied Materials Today</i> , 2018, 13, 217-227.	2.3	250
5	High Detectivity and Rapid Response in Perovskite CsPbBr ₃ Single-Crystal Photodetector. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4917-4923.	1.5	241
6	Ag ₂ O nanoparticle/TiO ₂ nanobelt heterostructures with remarkable photo-response and photocatalytic properties under UV, visible and near-infrared irradiation. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 83-90.	10.8	219
7	The selective deposition of MoS ₂ nanosheets onto (101) facets of TiO ₂ nanosheets with exposed (001) facets and their enhanced photocatalytic H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 329-337.	10.8	198
8	The fabrication of 1D/2D CdS nanorod@Ti ₃ C ₂ MXene composites for good photocatalytic activity of hydrogen generation and ammonia synthesis. <i>Chemical Engineering Journal</i> , 2021, 406, 127177.	6.6	187
9	Synergetic effect of defects rich MoS ₂ and Ti ₃ C ₂ MXene as cocatalysts for enhanced photocatalytic H ₂ production activity of TiO ₂ . <i>Chemical Engineering Journal</i> , 2020, 383, 123178.	6.6	175
10	Single-Atom Pt@N ₃ Sites on the Stable Covalent Triazine Framework Nanosheets for Photocatalytic N ₂ Fixation. <i>ACS Catalysis</i> , 2020, 10, 2431-2442.	5.5	171
11	Photocatalytic H ₂ Evolution on TiO ₂ Assembled with Ti ₃ C ₂ MXene and Metallic 1T-WS ₂ as Co-catalysts. <i>Nano-Micro Letters</i> , 2020, 12, 6.	14.4	141
12	Controllable growth of MoS ₂ nanosheets on novel Cu ₂ S snowflakes with high photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 355-364.	10.8	129
13	Co doped MoS ₂ as cocatalyst considerably improved photocatalytic hydrogen evolution of g-C ₃ N ₄ in an alkaline environment. <i>Chemical Engineering Journal</i> , 2021, 421, 130016.	6.6	127
14	Porous g-C ₃ N ₄ with nitrogen defects and cyano groups for excellent photocatalytic nitrogen fixation without co-catalysts. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 206-213.	5.0	125
15	Full solar spectrum photocatalytic oxygen evolution by carbon-coated TiO ₂ hierarchical nanotubes. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 711-720.	10.8	117
16	The metallic 1T-phase WS ₂ nanosheets as cocatalysts for enhancing the photocatalytic hydrogen evolution of g-C ₃ N ₄ nanotubes. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119114.	10.8	116
17	Highly efficient full solar spectrum (UV-vis-NIR) photocatalytic performance of Ag ₂ S quantum dot/TiO ₂ nanobelt heterostructures. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 189-196.	2.9	103
18	Porous ZnO Ultrathin Nanosheets with High Specific Surface Areas and Abundant Oxygen Vacancies for Acetylacetone Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24757-24763.	4.0	100

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19	Silver oxide decorated graphitic carbon nitride for the realization of photocatalytic degradation over the full solar spectrum: From UV to NIR region. <i>Solar Energy Materials and Solar Cells</i> , 2017, 168, 100-111.	3.0	99
20	Bi ₂ WO ₆ Nanosheets Decorated with Au Nanorods for Enhanced Near-Infrared Photocatalytic Properties Based on Surface Plasmon Resonance Effects and Wide-Range Near-Infrared Light Harvesting. <i>ChemCatChem</i> , 2017, 9, 1511-1516.	1.8	95
21	A novel high-entropy alloy composite coating with core-shell structures prepared by plasma cladding. <i>Vacuum</i> , 2021, 184, 109905.	1.6	94
22	Two-dimensional/one-dimensional molybdenum sulfide (MoS ₂) nanoflake/graphitic carbon nitride (g-C ₃ N ₄) hollow nanotube photocatalyst for enhanced photocatalytic hydrogen production activity. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 300-307.	5.0	93
23	High-Performance Electrocatalytic Conversion of N ₂ to NH ₃ Using 1T-MoS ₂ Anchored on Ti ₃ C ₂ MXene under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26060-26067.	4.0	92
24	Fabrication of 1D Zn ₂ SnO ₄ nanowire and 2D ZnO nanosheet hybrid hierarchical structures for use in triethylamine gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 155-163.	4.0	91
25	Hydrogenated TiO ₂ nanobelts as highly efficient photocatalytic organic dye degradation and hydrogen evolution photocatalyst. <i>Journal of Hazardous Materials</i> , 2015, 299, 165-173.	6.5	89
26	Synthesis of few-layer MoS ₂ nanosheets-coated TiO ₂ nanosheets on graphite fibers for enhanced photocatalytic properties. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 108-116.	3.0	89
27	High response and selectivity of single crystalline ZnO nanorods modified by In ₂ O ₃ nanoparticles for n-butanol gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 144-151.	4.0	88
28	Enhanced Optoelectronic Performance on the (110) Lattice Plane of an MAPbBr ₃ Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 684-689.	2.1	82
29	Effects of Ti-to-Al ratios on the phases, microstructures, mechanical properties, and corrosion resistance of Al _{2-x} CoCrFeNiTi _x high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019, 805, 585-596.	2.8	81
30	1T-MoS ₂ nanopatch/Ti ₃ C ₂ MXene/TiO ₂ nanosheet hybrids for efficient photocatalytic hydrogen evolution. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2673-2680.	3.2	81
31	Phosphorous-doped 1T-MoS ₂ decorated nitrogen-doped g-C ₃ N ₄ nanosheets for enhanced photocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 320-329.	5.0	81
32	Hierarchical assembly of In ₂ O ₃ nanoparticles on ZnO hollow nanotubes using carbon fibers as templates: Enhanced photocatalytic and gas-sensing properties. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 263-270.	5.0	78
33	Facile synthesis of heterojunction of MXenes/TiO ₂ nanoparticles towards enhanced hexavalent chromium removal. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 46-57.	5.0	78
34	Towards full-spectrum (UV, visible, and near-infrared) photocatalysis: achieving an all-solid-state Z-scheme between Ag ₂ O and TiO ₂ using reduced graphene oxide as the electron mediator. <i>Catalysis Science and Technology</i> , 2017, 7, 4193-4205.	2.1	76
35	Metallic 1T-phase MoS ₂ quantum dots/g-C ₃ N ₄ heterojunctions for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 12266-12274.	2.8	76
36	Linking growth mode to lengths of single-walled carbon nanotubes. <i>Carbon</i> , 2017, 113, 231-236.	5.4	75

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37	Rationalizing and controlling the phase transformation of semi-metallic 1T ϵ -phase and semi-conductive 2H-phase MoS ₂ as cocatalysts for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 396, 125344.	6.6	71
38	Wear and corrosion properties of B ₄ C-added CoCrNiMo high-entropy alloy coatings with in-situ coherent ceramic. <i>Materials and Design</i> , 2021, 210, 110068.	3.3	71
39	High yield production of reduced TiO ₂ with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2016, 360, 738-743.	3.1	70
40	Synthesis of novel Ag/Ag ₂ O heterostructures with solar full spectrum (UV, visible and near-infrared) light-driven photocatalytic activity and enhanced photoelectrochemical performance. <i>Catalysis Communications</i> , 2016, 87, 82-85.	1.6	68
41	1 ϵ -T-phase molybdenum sulfide nanodots enable efficient electrocatalytic nitrogen fixation under ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118984.	10.8	68
42	Facile preparation of metallic 1T phase molybdenum selenide as cocatalyst coupled with graphitic carbon nitride for enhanced photocatalytic H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2021, 598, 172-180.	5.0	68
43	Interfacial Microstructure and Enhanced Mechanical Properties of Carbon Fiber Composites Caused by Growing Generation 1 ϵ -4 Dendritic Poly(amidoamine) on a Fiber Surface. <i>Langmuir</i> , 2016, 32, 8339-8349.	1.6	67
44	Gold nanorods/g-C ₃ N ₄ heterostructures for plasmon-enhanced photocatalytic H ₂ evolution in visible and near-infrared light. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 700-708.	5.0	66
45	A simple strategy for fabrication of an FCC-based complex concentrated alloy coating with hierarchical nanoprecipitates and enhanced mechanical properties. <i>Materials and Design</i> , 2019, 180, 107893.	3.3	66
46	Construction of hierarchical 2D/2D Ti ₃ C ₂ /MoS ₂ nanocomposites for high-efficiency solar steam generation. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 125-133.	5.0	66
47	Design Growth of MAPbI ₃ Single Crystal with (220) Facets Exposed and Its Superior Optoelectronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 216-221.	2.1	64
48	Core-double shell ZnO@In ₂ O ₃ @ZnO hollow microspheres for superior ethanol gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130002.	4.0	62
49	High-quality inorganic-organic perovskite CH ₃ NH ₃ PbI ₃ single crystals for photo-detector applications. <i>Journal of Materials Science</i> , 2017, 52, 276-284.	1.7	61
50	Oxygen vacancy-rich BiO _{2-x} ultra-thin nanosheet for efficient full-spectrum responsive photocatalytic oxygen evolution from water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2019, 195, 309-317.	3.0	60
51	Visible photocatalytic and photoelectrochemical activities of TiO ₂ nanobelts modified by In ₂ O ₃ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 258-265.	5.0	58
52	Effect of carbon reactant on microstructures and mechanical properties of TiAl/Ti ₂ AlC composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 406-412.	2.6	56
53	RuO ₂ /TiO ₂ nanobelt heterostructures with enhanced photocatalytic activity and gas-phase selective oxidation of benzyl alcohol. <i>Solar Energy Materials and Solar Cells</i> , 2016, 151, 7-13.	3.0	55
54	A New Design of In Situ Ti(C,N) Reinforced Composite Coatings and Their Microstructures, Interfaces, and Wear Resistances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4250-4265.	4.0	54

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55	Titanium carbide MXenes coupled with cadmium sulfide nanosheets as two-dimensional/two-dimensional heterostructures for photocatalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 644-651.	5.0	53
56	TiO ₂ nanobelts with anatase/rutile heterophase junctions for highly efficient photocatalytic overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 181-189.	5.0	52
57	Novel Ag ₂ O nanoparticles modified MoS ₂ nanoflowers for piezoelectric-assisted full solar spectrum photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 206-214.	5.0	50
58	Controlled growth of MAPbBr ₃ single crystal: understanding the growth morphologies of vicinal hillocks on (100) facet to form perfect cubes. <i>Journal of Materials Science</i> , 2017, 52, 7907-7916.	1.7	48
59	Large-scale synthesis of porous nickel boride for robust hydrogen evolution reaction electrocatalyst. <i>Applied Surface Science</i> , 2019, 470, 591-595.	3.1	48
60	1T-phase MoS ₂ quantum dots as a superior co-catalyst to Pt decorated on carbon nitride nanorods for photocatalytic hydrogen evolution from water. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2032-2040.	3.2	45
61	Growth of porous ZnO single crystal hierarchical architectures with ultrahigh sensing performances to ethanol and acetone gases. <i>Ceramics International</i> , 2017, 43, 1121-1128.	2.3	44
62	Growth kinetics of single-walled carbon nanotubes with a (2 <i>n</i> , <i>n</i>) chirality selection. <i>Science Advances</i> , 2019, 5, eaav9668.	4.7	42
63	Adsorption and intercalation of organic pollutants and heavy metal ions into MgAl-LDHs nanosheets with high capacity. <i>RSC Advances</i> , 2016, 6, 92402-92410.	1.7	41
64	Bi ₂ O ₃ nanoparticles incorporated porous TiO ₂ films as an effective p-n junction with enhanced photocatalytic activity. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1339-1349.	1.9	41
65	Enhanced strength and ductility in a spark plasma sintered CoCrCu _{0.5} NiAl _{0.5} high-entropy alloy via a double-step ball milling approach for processing powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 762, 138071.	2.6	39
66	Integrating the Z-scheme heterojunction into a novel Ag ₂ O@rGO@reduced TiO ₂ photocatalyst: Broadened light absorption and accelerated charge separation co-mediated highly efficient UV/visible/NIR light photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 689-698.	5.0	39
67	Synthesis of salicylic acid-modified graphite carbon nitride for enhancing photocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 318-325.	5.0	38
68	In ₂ O ₃ Nanoparticles Decorated ZnO Hierarchical Structures for n-Butanol Sensor. <i>ACS Applied Nano Materials</i> , 2020, 3, 3295-3304.	2.4	37
69	TiO ₂ Nanobelts Decorated with In ₂ S ₃ Nanoparticles as Photocatalysts with Enhanced Full-Solar-Spectrum (UV-vis-NIR) Photocatalytic Activity toward the Degradation of Tetracycline. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700127.	1.2	36
70	Scalable and low-cost fabrication of hydrophobic PVDF/WS ₂ porous membrane for highly efficient solar steam generation. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 369-377.	5.0	36
71	Synthesis of In ₂ O ₃ nanoparticle/TiO ₂ nanobelt heterostructures for near room temperature ethanol sensing. <i>RSC Advances</i> , 2017, 7, 11503-11509.	1.7	35
72	Vanadium sulfide sub-microspheres: A new near-infrared-driven photocatalyst. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 442-448.	5.0	35

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73	The microstructures and properties changes induced by Al:Co ratios of the Al CrCo FeNi high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 153-163.	2.6	34
74	Fabrication of TiO ₂ nanoflowers with bronze (TiO ₂ (B))/anatase heterophase junctions for efficient photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24398-24406.	3.8	34
75	SnO ₂ core-shell hollow microspheres co-modification with Au and NiO nanoparticles for acetone gas sensing. <i>Powder Technology</i> , 2020, 364, 159-166.	2.1	34
76	The metallic 1T-WS ₂ as cocatalysts for promoting photocatalytic N ₂ fixation performance of Bi ₅ O ₇ Br nanosheets. <i>Chinese Chemical Letters</i> , 2021, 32, 3501-3504.	4.8	32
77	Self-assembled silane film and silver nanoparticles coating on magnesium alloys for corrosion resistance and antibacterial applications. <i>Acta Metallurgica Sinica (English Letters)</i> , 2013, 26, 681-686.	1.5	31
78	Anisotropic optoelectronic performances on (112) and (100) lattice plane of perovskite MAPbI ₃ single crystal. <i>Materials Chemistry and Physics</i> , 2018, 204, 222-227.	2.0	31
79	Effect of plasma remelting on microstructure and properties of a CoCrCuNiAl _{0.5} high-entropy alloy prepared by spark plasma sintering. <i>Journal of Materials Science</i> , 2021, 56, 5878-5898.	1.7	31
80	Cesium Decreases Defect Density and Enhances Optoelectronic Properties of Mixed MA _{1-x} Cs _x PbBr ₃ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14969-14975.	1.5	30
81	Ni/Co/black phosphorus nanocomposites for Q235 carbon steel corrosion-resistant coating. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 438-449.	9.9	30
82	Ru nanoparticles decorated TiO ₂ nanobelts: A heterostructure towards enhanced photocatalytic activity and gas-phase selective oxidation of benzyl alcohol. <i>Ceramics International</i> , 2016, 42, 1611-1617.	2.3	29
83	Highly efficient photocatalytic activity of Ag ₃ PO ₄ /Ag/ZnS(en) _{0.5} photocatalysts through Z-scheme photocatalytic mechanism. <i>RSC Advances</i> , 2017, 7, 18392-18399.	1.7	29
84	Fabrication of Au decorated porous ZnO microspheres with enhanced gas sensing properties. <i>Powder Technology</i> , 2017, 315, 379-384.	2.1	28
85	Controllable 3D interconnected featured pore structure of transition metal borides-carbonitride/MoS ₂ for efficiently solar evaporation and wastewater purification. <i>Chemical Engineering Journal</i> , 2022, 446, 137275.	6.6	28
86	Noble metal-like behavior of plasmonic Bi particles deposited on reduced TiO ₂ microspheres for efficient full solar spectrum photocatalytic oxygen evolution. <i>Chinese Journal of Catalysis</i> , 2020, 41, 333-340.	6.9	27
87	Preparation of mesoporous SnO ₂ by solvothermal method using <i>Stahlianthus involucratus</i> leaves and application to n-butanol sensor. <i>Powder Technology</i> , 2016, 302, 283-287.	2.1	26
88	Facile synthesis and superior ethyl acetate sensing performance of Au decorated ZnO flower-like architectures. <i>Ceramics International</i> , 2017, 43, 5053-5060.	2.3	26
89	Solvothermal preparation and gas sensing properties of hierarchical pore structure SnO ₂ produced using grapefruit peel as a bio-template. <i>Ceramics International</i> , 2017, 43, 4112-4118.	2.3	25
90	Preparation of porous Al ₂ TiO ₅ -Mullite ceramic by starch consolidation casting and its corrosion resistance characterization. <i>Ceramics International</i> , 2016, 42, 14107-14112.	2.3	24

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91	Synergistic improvement of wear and corrosion resistance of CoCrNiMoCB coatings obtained by laser cladding: Role of Mo concentration. <i>Materials and Design</i> , 2022, 219, 110751.	3.3	24
92	Preparation of porous Al ₂ TiO ₅ ceramics reinforced by in situ formation of mullite whiskers. <i>Materials & Design</i> , 2013, 47, 57-60.	5.1	23
93	High temperature growth of single-walled carbon nanotubes with a narrow chirality distribution by tip-growth mode. <i>Chemical Engineering Journal</i> , 2018, 341, 344-350.	6.6	23
94	Ti ₂ Al(C, N) Solid Solution Reinforcing TiAl-Based Composites: Evolution of a Core-Shell Structure, Interfaces, and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16783-16792.	4.0	22
95	Synthesis of porous few-layer carbon nitride with excellent photocatalytic nitrogen fixation. <i>Journal of Materiomics</i> , 2020, 6, 128-137.	2.8	22
96	Addition Al and/or Ti Induced Modifications of Microstructures, Mechanical Properties, and Corrosion Properties in CoCrFeNi High-Entropy Alloy Coatings. <i>Acta Metallurgica Sinica (English)</i> 2020, 56, 1000-1008.	1.6	20
97	Porous graphitic carbon nitride with nitrogen defects and cobalt-nitrogen (Co-N) bonds for efficient broad spectrum (visible and near-infrared) photocatalytic H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 719-729.	5.0	21
98	Facile synthesis of mesoporous SnO ₂ microspheres using bioactive yeast cell. <i>Powder Technology</i> , 2016, 301, 96-101.	2.1	20
99	The high surface energy of NiO {110} facets incorporated into TiO ₂ hollow microspheres by etching Ti plate for enhanced photocatalytic and photoelectrochemical activity. <i>Applied Surface Science</i> , 2017, 396, 1539-1545.	3.1	20
100	Fabrication of molybdenum and tungsten oxide, sulfide, phosphide (M _x W _{1-x} O ₂ /M _x W _{1-x} S ₂ /M _x W _{1-x} P) porous hollow nano-octahedrons from metal-organic frameworks templates as efficient hydrogen evolution reaction electrocatalysts. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 339-349.	5.0	20
101	Non-high temperature method to synthesize carbon coated TiO ₂ nano-dendrites for enhanced wide spectrum photocatalytic hydrogen evolution activity. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 412-418.	5.0	20
102	Incorporation of Cesium Ions into MA _{1-x} Cs _x Pb ₃ Single Crystals: Crystal Growth, Enhancement of Stability, and Optoelectronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5833-5839.	2.1	19
103	Remarkable charge separation and photocatalytic efficiency enhancement through TiO ₂ (B)/anatase heterophase junctions of TiO ₂ nanobelts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27311-27318.	3.8	19
104	Formation and beneficial effects of the amorphous/nanocrystalline phase in laser remelted (FeCoCrNi) ₇₅ Nb ₁₀ B ₈ Si ₇ high-entropy alloy coatings fabricated by plasma cladding. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163277.	2.8	18
105	Three-Dimensional Artificial Transpiration Structure Based on 1T/2H-MoS ₂ /Activated Carbon Fiber Cloth for Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29788-29796.	4.0	18
106	Iron silicide-catalyzed growth of single-walled carbon nanotubes with a narrow diameter distribution. <i>Carbon</i> , 2019, 149, 139-143.	5.4	17
107	Realizable recycling of coal fly ash from solid waste for the fabrication of porous Al ₂ TiO ₅ -Mullite composite ceramic. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 50-58.	1.1	16
108	Enhanced acetone sensing properties of hollow SnO ₂ fibers using poplar catkins as a bio-template. <i>Powder Technology</i> , 2019, 344, 183-189.	2.1	16

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109	Fabrication of Three-Dimensional Porous NiO/Amorphous Ni(OH) ₂ Composites for Supercapacitors. <i>Energy & Fuels</i> , 2020, 34, 16783-16790.	2.5	16
110	A novel semi-metallic 1Tâ€²-MoReS ₃ co-catalyst. <i>Chemical Engineering Journal</i> , 2021, 425, 130525.	6.6	16
111	Stability, microstructure and mechanical properties of (Al,Fe) ₂ /TiO ₅ porous ceramic reinforced by in-situ mullite. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 156-159.	0.5	15
112	Semiâ€metal 1Tâ€² phase MoS ₂ nanosheets for promoted electrocatalytic nitrogen reduction. <i>EcoMat</i> , 2021, 3, e12122.	6.8	15
113	Synthesis and characterization of Au-loaded SnO ₂ mesoporous spheres by spray drying and their gas sensing property. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104710.	1.9	14
114	Synthesis of ZnO Hollow Microspheres and Analysis of Their Gas Sensing Properties for n-Butanol. <i>Crystals</i> , 2020, 10, 1010.	1.0	14
115	Au modified single crystalline and polycrystalline composite tin oxide for enhanced n-butanol sensing performance. <i>Powder Technology</i> , 2018, 331, 270-275.	2.1	13
116	Chemical Assembly of Titania P25 on MoO ₃ Nanobelts with Enhanced UV and Visible Photocatalytic Activities. <i>Science of Advanced Materials</i> , 2016, 8, 2313-2321.	0.1	13
117	Phonon spectrum and thermodynamic properties of LaCoO ₃ based on first-principles theory. <i>Computational Materials Science</i> , 2017, 136, 191-197.	1.4	12
118	Preparation of meso-porous SnO ₂ fibers with enhanced sensitivity for n-butanol. <i>Ceramics International</i> , 2018, 44, 4990-4995.	2.3	12
119	Structural evolution and electrochemical corrosion behavior of Alâ€Tiâ€O amorphous-nanocrystalline composite films deposited by magnetron sputtering. <i>Thin Solid Films</i> , 2019, 692, 137640.	0.8	12
120	Facile fabrication of hierarchical structure SnO ₂ coatings using bioactive yeast cell. <i>Materials Letters</i> , 2016, 172, 137-141.	1.3	11
121	Preparation of porous Al ₂ O ₃ ceramics by starch consolidation casting method. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 1550-1558.	1.1	11
122	Designing a 1D/2D W18O ₄₉ /rGO heterostructure and constructing a bilayer structure of light absorber for highly efficient steam generation. <i>Powder Technology</i> , 2020, 361, 817-826.	2.1	11
123	Anisotropy thermoelectric and mechanical property of polycrystalline SnSe prepared under different processes. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6403-6410.	1.1	10
124	Influence of Cr Content on the Microstructure and Electrochemical Corrosion in Plasma Cladding Ni-Cr Coatings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 5410-5420.	1.1	9
125	Enhanced Thermoelectric Performance of SnSe with Trace Au Particles via Transport Channel Design. <i>ACS Applied Energy Materials</i> , 2019, 2, 2604-2610.	2.5	9
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