

Hongzhi Cui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3454533/publications.pdf>

Version: 2024-02-01

141
papers

8,003
citations

34076

52
h-index

56687

83
g-index

141
all docs

141
docs citations

141
times ranked

8041
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Multiscale Modelling and Characterization of Mechanical Properties in Heat-Resistant Alloys. <i>Crystals</i> , 2022, 12, 105.	1.0	0
5	The evolution of multi and hierarchical carbides and their collaborative wear-resisting effects in CoCrNi/WC composite coatings via laser cladding. <i>Materials Today Communications</i> , 2022, 30, 103223.	0.9	9
6	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
7	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
8	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
9	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
10	Effects of Solidification Rates on Microstructure Refinement and Elemental Distribution of Ti ₄₄ Al ₆ Nb _{1.0} Cr _{2.0} V _{0.1} B _{0.15} Y Alloy by Rapid Solidification. <i>Advanced Engineering Materials</i> , 2021, 23, 2000809.	1.6	0
11	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
12	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
13	A novel high-entropy alloy composite coating with core-shell structures prepared by plasma cladding. <i>Vacuum</i> , 2021, 184, 109905.	1.6	94
14	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
15	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) Tj</i> ETQq1 1 0.784314 rgBT /overlock		
16	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
17	Semi-metal 1T phase MoS ₂ nanosheets for promoted electrocatalytic nitrogen reduction. <i>EcoMat</i> , 2021, 3, e12122.	6.8	15
18	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

#	ARTICLE	IF	CITATIONS
19	Facile preparation of metallic 1T phase molybdenum selenide as cocatalyst coupled with graphitic carbon nitride for enhanced photocatalytic H ₂ production. Journal of Colloid and Interface Science, 2021, 598, 172-180.	5.0	68
20	Co doped MoS ₂ as cocatalyst considerably improved photocatalytic hydrogen evolution of g-C ₃ N ₄ in an alkaline environment. Chemical Engineering Journal, 2021, 421, 130016.	6.6	127
21	Wear and corrosion properties of B ₄ C-added CoCrNiMo high-entropy alloy coatings with in-situ coherent ceramic. Materials and Design, 2021, 210, 110068.	3.3	71
22	A novel semi-metallic 1Tâ€²-MoReS ₃ co-catalyst. Chemical Engineering Journal, 2021, 425, 130525.	6.6	16
23	Effect of plasma remelting on microstructure and properties of a CoCrCuNiAl _{0.5} high-entropy alloy prepared by spark plasma sintering. Journal of Materials Science, 2021, 56, 5878-5898.	1.7	31
24	Synthesis and characterization of Au-loaded SnO ₂ mesoporous spheres by spray drying and their gas sensing property. Materials Science in Semiconductor Processing, 2020, 105, 104710.	1.9	14
25	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 . Chemical Engineering Journal, 2020, 383, 123178.	6.6	175
26	Photocatalytic H ₂ Evolution on TiO ₂ Assembled with Ti ₃ C ₂ MXene and Metallic 1T-WS ₂ as Co-catalysts. Nano-Micro Letters, 2020, 12, 6.	14.4	141
27	Designing a 1D/2D W ₁₈ O ₄₉ /rGO heterostructure and constructing a bilayer structure of light absorber for highly efficient steam generation. Powder Technology, 2020, 361, 817-826.	2.1	11
28	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. Journal of Colloid and Interface Science, 2020, 561, 719-729.	5.0	21
29	Facile synthesis of heterojunction of MXenes/TiO ₂ nanoparticles towards enhanced hexavalent chromium removal. Journal of Colloid and Interface Science, 2020, 561, 46-57.	5.0	78
30	Noble metal-like behavior of plasmonic Bi particles deposited on reduced TiO ₂ microspheres for efficient full solar spectrum photocatalytic oxygen evolution. Chinese Journal of Catalysis, 2020, 41, 333-340.	6.9	27
31	Synthesis of ZnO Hollow Microspheres and Analysis of Their Gas Sensing Properties for n-Butanol. Crystals, 2020, 10, 1010.	1.0	14
32	Fabrication of Three-Dimensional Porous NiO/Amorphous Ni(OH) ₂ Composites for Supercapacitors. Energy & Fuels, 2020, 34, 16783-16790.	2.5	16
33	High-Performance Electrocatalytic Conversion of N ₂ to NH ₃ Using 1T-MoS ₂ Anchored on Ti ₃ C ₂ MXene under Ambient Conditions. ACS Applied Materials & Interfaces, 2020, 12, 26060-26067.	4.0	92
34	The metallic 1T-phase WS ₂ nanosheets as cocatalysts for enhancing the photocatalytic hydrogen evolution of g-C ₃ N ₄ nanotubes. Applied Catalysis B: Environmental, 2020, 274, 119114.	10.8	116
35	Rationalizing and controlling the phase transformation of semi-metallic 1Tâ€²-phase and semi-conductive 2H-phase MoS ₂ as cocatalysts for photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 396, 125344.	6.6	71
36	In ₂ O ₃ Nanoparticles Decorated ZnO Hierarchical Structures for n-Butanol Sensor. ACS Applied Nano Materials, 2020, 3, 3295-3304.	2.4	37

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Corrosion Resistance and Anti-wear Properties: Ni-W-GO Nanocomposite Coating with Lamellar Structure. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 713-724.	0.7	8
40	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
41	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
42	Synthesis of porous few-layer carbon nitride with excellent photocatalytic nitrogen fixation. <i>Journal of Materiomics</i> , 2020, 6, 128-137.	2.8	22
43	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
44	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
45	1T-phase molybdenum sulfide nanodots enable efficient electrocatalytic nitrogen fixation under ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118984.	10.8	68
46	Realizable recycling of coal fly ash from solid waste for the fabrication of porous Al ₂ O ₃ /TiO ₂ /Mullite composite ceramic. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 50-58.	1.1	16
47	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
48	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
49	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
50	Iridium-catalyzed growth of single-walled carbon nanotubes with a bicentric diameter distribution. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1882-1887.	3.2	8
51	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
52	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
53	Structural evolution and electrochemical corrosion behavior of Al-Ti-O amorphous-nanocrystalline composite films deposited by magnetron sputtering. <i>Thin Solid Films</i> , 2019, 692, 137640.	0.8	12
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Preparation of hierarchical porous Al ₂ TiO ₅ "mullite" ceramics by biological foaming and its microstructural characterization. <i>Ceramics International</i> , 2019, 45, 8049-8053.	2.3	7
58	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
59	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
60	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
61	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
62	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
63	Microstructural characteristics of TiB ₂ -TiC-NiAl composite coatings via Plasma Cladding Process. <i>Surface Engineering</i> , 2019, 35, 997-1002.	1.1	5
64	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
65	Iron silicide-catalyzed growth of single-walled carbon nanotubes with a narrow diameter distribution. <i>Carbon</i> , 2019, 149, 139-143.	5.4	17
66	Mono-crystalline SnTe with micro-octahedron characteristic: One-pot facile synthesis and comprehensive crystallographic evidence. <i>International Journal of Materials Research</i> , 2019, 110, 460-465.	0.1	0
67	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
68	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
69	Fabrication of molybdenum and tungsten oxide, sulfide, phosphide (MoxW1-xO2/MoxW1-xS2/MoxW1-xP) 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
70	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
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	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
75	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
76	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
77	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
78	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
79	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
80	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
81	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
82	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
83	Design Growth of MAPb 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
84	Preparation of meso-porous SnO ₂ fibers with enhanced sensitivity for n-butanol. <i>Ceramics International</i> , 2018, 44, 4990-4995.	2.3	12
85	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
86	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
87	Anisotropic optoelectronic performances on (112) and (100) lattice plane of perovskite MAPb ₃ single crystal. <i>Materials Chemistry and Physics</i> , 2018, 204, 222-227.	2.0	31
88	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
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	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
92	An insight into the effects of transition metals on the thermal expansion of complex perovskite compounds: an experimental and density functional theory investigation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17781-17789.	1.3	4
93	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
94	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
95	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
96	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
97	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
98	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
99	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
100	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
101	Fabrication of Au decorated porous ZnO microspheres with enhanced gas sensing properties. <i>Powder Technology</i> , 2017, 315, 379-384.	2.1	28
102	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
103	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
104	Atomic force microscopy investigation of a step generation and bunching on the (100) facet of a CH ₃ NH ₃ PbI ₃ crystal, grown from γ -Butyrolactone. <i>Crystal Research and Technology</i> , 2017, 52, 1700021.	0.6	6
105	Phase structure and electrochemical performance control of 0.5Li ₂ MnO ₃ ...0.5LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ based on the concentration adjustment in a molten salt synthesis system. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 691-698.	1.5	5
106	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
107	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
108	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

#	ARTICLE	IF	CITATIONS
109	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
110	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
111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	Linking growth mode to lengths of single-walled carbon nanotubes. <i>Carbon</i> , 2017, 113, 231-236.	5.4	75
119	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
120	Conversion reaction mechanisms of cubic bismuth phosphate Bi ₁₃ PO ₇ as cathode in lithium-ion batteries. <i>Journal of Materials Science</i> , 2016, 51, 7598-7606.	1.7	2
121	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
122	Preparation of mesoporous SnO ₂ by solvothermal method using <i>Stahlianthus involucratu</i> s leaves and application to n-butanol sensor. <i>Powder Technology</i> , 2016, 302, 283-287.	2.1	26
123	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
124	Interfacial Microstructure and Enhanced Mechanical Properties of Carbon Fiber Composites Caused by Growing Generation 1-4 Dendritic Poly(amidoamine) on a Fiber Surface. <i>Langmuir</i> , 2016, 32, 8339-8349.	1.6	67
125	The phase structure and electrochemical performance of xLi ₂ MnO ₃ ·(1-x)LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ during the synthesis and charge-discharge process. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	6
126	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

#	ARTICLE	IF	CITATIONS
127	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
128	Synthesis and characterization of coaxial SnO ₂ @SiO _x core-shell nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	2
129	Facile synthesis of mesoporous SnO ₂ microspheres using bioactive yeast cell. <i>Powder Technology</i> , 2016, 301, 96-101.	2.1	20
130	Facile fabrication of hierarchical structure SnO ₂ coatings using bioactive yeast cell. <i>Materials Letters</i> , 2016, 172, 137-141.	1.3	11
131	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
132	High yield production of reduced TiO ₂ with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2016, 360, 738-743.	3.1	70
133	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
134	Solution of boundary heat transfer coefficients between hot stamping die and cooling water based on FEM and optimization method. <i>Heat and Mass Transfer</i> , 2016, 52, 805-817.	1.2	5
135	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
136	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
137	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
138	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
139	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
140	Investigation of single crystal growth of GaPO ₄ by the flux method. <i>Crystallography Reports</i> , 2013, 58, 195-197.	0.1	2
141	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