

Gui-Fang Huang

List of Publications by Year in descending order

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148
papers

4,572
citations

109137

35
h-index

128067

60
g-index

149
all docs

149
docs citations

149
times ranked

4919
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of g-C ₃ N ₄ and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. <i>Chemistry of Materials</i> , 2015, 27, 1612-1621.	3.2	252
2	Novel Ag ₃ PO ₄ /CeO ₂ composite with high efficiency and stability for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1750-1756.	5.2	251
3	Visible-light absorption and photocatalytic activity of Cr-doped TiO ₂ nanocrystal films. <i>Advanced Powder Technology</i> , 2012, 23, 8-12.	2.0	198
4	Dimensional transformation and morphological control of graphitic carbon nitride from water-based supramolecular assembly for photocatalytic hydrogen evolution: from 3D to 2D and 1D nanostructures. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 321-328.	10.8	134
5	Two-Dimensional MoS ₂ -Graphene-Based Multilayer van der Waals Heterostructures: Enhanced Charge Transfer and Optical Absorption, and Electric-Field Tunable Dirac Point and Band Gap. <i>Chemistry of Materials</i> , 2017, 29, 5504-5512.	3.2	131
6	Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. <i>Nanoscale</i> , 2019, 11, 6876-6885.	2.8	128
7	Construction of g-C ₃ N ₄ /CeO ₂ /ZnO ternary photocatalysts with enhanced photocatalytic performance. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 106, 1-9.	1.9	116
8	Facile <i>in situ</i> construction of mediator-free direct Z-scheme g-C ₃ N ₄ /CeO ₂ heterojunctions with highly efficient photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 275302.	1.3	110
9	Generalized Synthetic Strategy for Amorphous Transition Metal Oxides-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2009230.	7.8	97
10	High-Throughput One-Photon Excitation Pathway in OD/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2100816.	7.8	92
11	Facile synthesis and superior photocatalytic and electrocatalytic performances of porous B-doped g-C ₃ N ₄ nanosheets. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2515-2520.	5.6	87
12	A facile and rapid route for synthesis of g-C ₃ N ₄ nanosheets with high adsorption capacity and photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 86688-86694.	1.7	81
13	Type-II/type-II band alignment to boost spatial charge separation: a case study of g-C ₃ N ₄ quantum dots/a-TiO ₂ /r-TiO ₂ for highly efficient photocatalytic hydrogen and oxygen evolution. <i>Nanoscale</i> , 2020, 12, 6037-6046.	2.8	79
14	Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag ₃ PO ₄ /Graphene Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12972-12979.	1.5	78
15	Ultra-thin tubular graphitic carbon Nitride-Carbon Dot lateral heterostructures: One-Step synthesis and highly efficient catalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2020, 397, 125470.	6.6	72
16	Interfacial Interactions of Semiconductor with Graphene and Reduced Graphene Oxide: CeO ₂ as a Case Study. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20350-20357.	4.0	71
17	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H ₂ Evolution Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17341-17349.	4.0	71
18	Chlorine doped graphitic carbon nitride nanorings as an efficient photoresponsive catalyst for water oxidation and organic decomposition. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2288-2296.	5.6	61

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19	Dual role of monolayer MoS ₂ in enhanced photocatalytic performance of hybrid MoS ₂ /SnO ₂ nanocomposite. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	57
20	Organic Small Molecule Activates Transition Metal Foam for Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1906015.	11.1	56
21	In-situ construction of 2D direct Z-scheme g-C ₃ N ₄ /g-C ₃ N ₄ homojunction with high photocatalytic activity. <i>Journal of Materials Science</i> , 2018, 53, 15882-15894.	1.7	52
22	Penta-Graphene as a Potential Gas Sensor for NO _x Detection. <i>Nanoscale Research Letters</i> , 2019, 14, 306.	3.1	52
23	Origin of enhanced photocatalytic activity of F-doped CeO ₂ nanocubes. <i>Applied Surface Science</i> , 2016, 370, 427-432.	3.1	50
24	Size-controllable synthesis and enhanced photocatalytic activity of porous ZnS nanospheres. <i>Materials Letters</i> , 2012, 83, 104-107.	1.3	46
25	Isotype heterojunction g-C ₃ N ₄ /g-C ₃ N ₄ nanosheets as 2D support to highly dispersed OD metal oxide nanoparticles: Generalized self-assembly and its high photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 025501.	1.3	46
26	Novel 3D flower-like Ag ₃ PO ₄ microspheres with highly enhanced visible light photocatalytic activity. <i>Materials Letters</i> , 2014, 116, 209-211.	1.3	45
27	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable <i>in situ</i> surface engineering and morphology. <i>Nanoscale</i> , 2019, 11, 16393-16405.	2.8	45
28	Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. <i>Nanoscale</i> , 2020, 12, 3135-3145.	2.8	45
29	Hierarchical Self-assembly of Well-Defined Louver-Like P-Doped Carbon Nitride Nanowire Arrays with Highly Efficient Hydrogen Evolution. <i>Nano-Micro Letters</i> , 2020, 12, 52.	14.4	45
30	Composition, structure and corrosion characteristics of Ni-Fe-P and Ni-Fe-P-B alloy deposits prepared by electroless plating. <i>Surface and Coatings Technology</i> , 2000, 126, 272-278.	2.2	44
31	The mechanical performance and anti-corrosion behavior of diamond-like carbon film. <i>Diamond and Related Materials</i> , 2003, 12, 1406-1410.	1.8	44
32	Insights into enhanced visible-light photocatalytic activity of CeO ₂ doped with nonmetal impurity from the first principles. <i>Materials Science in Semiconductor Processing</i> , 2016, 41, 200-208.	1.9	44
33	OD/2D Z-scheme heterojunctions of g-C ₃ N ₄ quantum dots/ZnO nanosheets as a highly efficient visible-light photocatalyst. <i>Advanced Powder Technology</i> , 2019, 30, 1576-1583.	2.0	40
34	Dipole Engineering of Two-Dimensional van der Waals Heterostructures for Enhanced Power-Conversion Efficiency: The Case of Janus Ga_2Se <i>Physical Review Applied</i> , 2021, 16, .	1.5	39
35	Mathematical Modeling of the Photocatalytic Activity of Ag ₃ PO ₄ Semiconductor Photocatalyst: Possibilities and Challenges. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	1.5	38
36	Electrospinning preparation of p-type NiO/n-type CeO ₂ heterojunctions with enhanced photocatalytic activity. <i>Materials Letters</i> , 2014, 133, 109-112.	1.3	37

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37	Origin of enhanced visible-light photocatalytic activity of transition-metal (Fe, Cr and Co)-doped CeO ₂ : effect of 3d orbital splitting. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	37
38	Facile <i>in situ</i> synthesis of wurtzite ZnS/ZnO core/shell heterostructure with highly efficient visible-light photocatalytic activity and photostability. Journal Physics D: Applied Physics, 2018, 51, 075501.	1.3	36
39	Combined effect of thickness and stress on ferroelectric behavior of thin BaTiO ₃ films. Journal of Applied Physics, 2003, 93, 2855-2860.	1.1	35
40	Facile ion-exchange synthesis of mesoporous Bi ₂ S ₃ /ZnS nanoplate with high adsorption capability and photocatalytic activity. Journal of Colloid and Interface Science, 2016, 464, 103-109.	5.0	35
41	Two-dimensional GaX/SnS ₂ (X = S, Se) van der Waals Heterostructures for Photovoltaic Application: Heteroatom Doping Strategy to Boost Power Conversion Efficiency. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800565.	1.2	35
42	Enhanced visible-light photoactivity of La-doped ZnS thin films. Applied Physics A: Materials Science and Processing, 2012, 108, 895-900.	1.1	34
43	Annealing effects on photocatalytic activity of ZnS films prepared by chemical bath deposition. Materials Letters, 2012, 75, 221-224.	1.3	33
44	Facile shape-controllable synthesis of Ag ₃ PO ₄ photocatalysts. Materials Letters, 2014, 133, 139-142.	1.3	33
45	A host-guest self-assembly strategy to enhance π -electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. Chemical Engineering Journal, 2022, 430, 132880.	6.6	33
46	Coupling effect of La doping and porphyrin sensitization on photocatalytic activity of nanocrystalline TiO ₂ . Materials Letters, 2013, 108, 37-40.	1.3	32
47	The enhanced photocatalytic activity of Ti ³⁺ self-doped TiO ₂ by a reduction method. Materials Letters, 2014, 122, 33-36.	1.3	32
48	Band engineering of ZnS by codoping for visible-light photocatalysis. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750.	1.1	32
49	Electronic Structures and Photocatalytic Responses of SrTiO ₃ (100) Surface Interfaced with Graphene, Reduced Graphene Oxide, and Graphane: Surface Termination Effect. Journal of Physical Chemistry C, 2015, 119, 19095-19104.	1.5	32
50	Hydroxy-carbonate-assisted synthesis of high porous graphitic carbon nitride with broken of hydrogen bonds as a highly efficient visible-light-driven photocatalyst. Journal Physics D: Applied Physics, 2019, 52, 105502.	1.3	32
51	Electrochemical study of electroless deposition of Fe-P alloys. Electrochimica Acta, 2006, 51, 4471-4476.	2.6	31
52	Insights into enhanced visible-light photocatalytic activity of C ₆₀ modified g-C ₃ N ₄ hybrids: the role of nitrogen. Physical Chemistry Chemical Physics, 2016, 18, 33094-33102.	1.3	31
53	Hollow BCN microrods with hierarchical multichannel structure as a multifunctional material: Synergistic effects of structural topology and composition. Carbon, 2019, 148, 231-240.	5.4	29
54	Electronic properties and photoactivity of monolayer MoS ₂ /fullerene van der Waals heterostructures. RSC Advances, 2016, 6, 43228-43236.	1.7	28

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55	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. <i>Journal Physics D: Applied Physics</i> , 2019, 53, 015502.	1.3	28
56	Band structure engineering of monolayer MoS ₂ : a charge compensated codoping strategy. <i>RSC Advances</i> , 2015, 5, 7944-7952.	1.7	26
57	Dramatically Enhanced Visible Light Response of Monolayer ZrS ₂ via Non-covalent Modification by Double-Ring Tubular B20 Cluster. <i>Nanoscale Research Letters</i> , 2016, 11, 495.	3.1	25
58	Phonon-cavity-enhanced low-temperature thermal conductance of a semiconductor nanowire with narrow constrictions. <i>Physical Review B</i> , 2007, 75, .	1.1	24
59	Efficient ultraviolet emission of ZnS nanospheres: Co doping enhancement. <i>Materials Letters</i> , 2013, 100, 237-240.	1.3	24
60	Tuning near-gap electronic structure, interface charge transfer and visible light response of hybrid doped graphene and Ag ₃ PO ₄ composite: Dopant effects. <i>Scientific Reports</i> , 2016, 6, 22267.	1.6	24
61	High-throughput computational design for 2D van der Waals functional heterostructures: Fragility of Anderson's rule and beyond. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	24
62	Tunable synthesis of various ZnO architectural structures with enhanced photocatalytic activities. <i>Materials Letters</i> , 2016, 175, 68-71.	1.3	23
63	Noncovalent Functionalization of Monolayer MoS ₂ with Carbon Nanotubes: Tuning Electronic Structure and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21921-21929.	1.5	23
64	Non-covalent functionalization of WS ₂ monolayer with small fullerenes: tuning electronic properties and photoactivity. <i>Dalton Transactions</i> , 2016, 45, 13383-13391.	1.6	22
65	Enhanced photocatalytic performance of an Ag ₃ PO ₄ photocatalyst via fullerene modification: first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2878-2886.	1.3	22
66	Hybrid TiO ₂ /graphene derivatives nanocomposites: is functionalized graphene better than pristine graphene for enhanced photocatalytic activity?. <i>Catalysis Science and Technology</i> , 2017, 7, 1423-1432.	2.1	20
67	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28065-28074.	1.5	20
68	A novel photocatalyst CeF ₃ : facile fabrication and photocatalytic performance. <i>RSC Advances</i> , 2015, 5, 95171-95177.	1.7	19
69	Mesoporous g-C ₃ N ₄ Nanosheets: Synthesis, Superior Adsorption Capacity and Photocatalytic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5502-5510.	0.9	19
70	A design rule for two-dimensional van der Waals heterostructures with unconventional band alignments. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3037-3047.	1.3	19
71	Preparation of amorphous rare-earth films of Ni-RE-P (Re=Ce, Nd) by electrodeposition from an aqueous bath. <i>Surface and Coatings Technology</i> , 2005, 192, 208-212.	2.2	18
72	Enhancement of photocatalytic activity of combustion-synthesized CeO ₂ /C ₃ N ₄ nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 1205-1209.	1.1	18

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73	Morphology-controlled SnS ₂ nanostructures synthesized by refluxing method with high photocatalytic activity. <i>Materials Letters</i> , 2015, 161, 480-483.	1.3	18
74	Tunable Schottky barrier in van der Waals heterostructures of graphene and hydrogenated phosphorus carbide monolayer: first-principles calculations. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 305104.	1.3	18
75	Acid-induced topological morphology modulation of graphitic carbon nitride homojunctions as advanced metal-free catalysts for OER and pollutant degradation. <i>Journal of Materials Science and Technology</i> , 2021, 86, 210-218.	5.6	18
76	Symmetry-Breaking-Induced Multifunctionalities of Two-Dimensional Chromium-Based Materials for Nanoelectronics and Clean Energy Conversion. <i>Physical Review Applied</i> , 2022, 18, .	1.5	18
77	Magnetic properties of CoFeP films prepared by electroless deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1177-1181.	1.0	17
78	Enhanced photocatalytic activity of hexagonal flake-like Bi ₂ S ₃ @ZnS composites with a large percentage of reactive facets. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 305105.	1.3	17
79	A two-dimensional MoS ₂ /SnS heterostructure for promising photocatalytic performance: First-principles investigations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114453.	1.3	17
80	Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe ²⁺ /Cd ²⁺ . <i>Science China Materials</i> , 2021, 64, 3037-3050.	3.5	17
81	Luminescent and photocatalytic properties of hollow SnO ₂ nanospheres. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 725-729.	1.7	16
82	Theoretical insight into the electronic and photocatalytic properties of Cu ₂ O from a hybrid density functional theory. <i>Materials Science in Semiconductor Processing</i> , 2014, 23, 34-41.	1.9	16
83	Facile route to fabricate carbon-doped TiO ₂ nanoparticles and its mechanism of enhanced visible light photocatalytic activity. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	16
84	Protonated supramolecular complex-induced porous graphitic carbon nitride nanosheets as bifunctional catalyst for water oxidation and organic pollutant degradation. <i>Journal of Materials Science</i> , 2019, 54, 7637-7650.	1.7	16
85	Algorithm for generating irreducible site-occupancy configurations. <i>Physical Review B</i> , 2020, 102, .	1.1	16
86	Native vacancy defects in bismuth sulfide. <i>International Journal of Modern Physics B</i> , 2014, 28, 1450150.	1.0	15
87	Enhanced photocatalytic activity and stability of Zn Cd ¹⁺ S/TiO ₂ nanocomposites synthesized by chemical bath deposition. <i>Materials Letters</i> , 2015, 142, 133-136.	1.3	15
88	Facile one-step in-situ synthesis of type-II CeO ₂ /CeF ₃ composite with tunable morphology and photocatalytic activity. <i>Ceramics International</i> , 2016, 42, 16374-16381.	2.3	15
89	NiFe ₂ O ₄ /NiFeP Heterostructure Grown on Nickel Foam as an Efficient Electrocatalyst for Water Oxidation. <i>ChemElectroChem</i> , 2020, 7, 4047-4054.	1.7	15
90	Strain and Electric Field Controllable Schottky Barriers and Contact Types in Graphene-MoTe ₂ van der Waals Heterostructure. <i>Nanoscale Research Letters</i> , 2020, 15, 180.	3.1	15

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91	The mechanism of enhanced photocatalytic activity of SnO ₂ through fullerene modification. <i>Current Applied Physics</i> , 2017, 17, 1547-1556.	1.1	14
92	Simultaneous covalent and noncovalent carbon nanotube/Ag ₃ PO ₄ hybrids: new insights into the origin of enhanced visible light photocatalytic performance. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7955-7963.	1.3	13
93	Electrostatic Potential Anomaly in 2D Janus Transition Metal Dichalcogenides. <i>Annalen Der Physik</i> , 2019, 531, 1900369.	0.9	13
94	Self-assembled hierarchical carbon/g-C ₃ N ₄ composite with high photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 135501.	1.3	12
95	Interfacial Interactions in Monolayer and Few-Layer SnS/CH ₃ NH ₃ PbI ₃ Perovskite van der Waals Heterostructures and Their Effects on Electronic and Optical Properties. <i>ChemPhysChem</i> , 2018, 19, 291-299.	1.0	12
96	Dispersive and covalent interactions in all-carbon heterostructures consisting of penta-graphene and fullerene: topological effect. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 305301.	1.3	12
97	Optical Characteristics of La-Doped ZnS Thin Films Prepared by Chemical Bath Deposition. <i>Chinese Physics Letters</i> , 2011, 28, 027806.	1.3	11
98	Mass production of ZnxCd _{1-x} S nanoparticles with enhanced visible light photocatalytic activity. <i>Materials Letters</i> , 2015, 158, 432-435.	1.3	11
99	Interfacial interaction in monolayer transition metal dichalcogenide/metal oxide heterostructures and its effects on electronic and optical properties: The case of MX ₂ /CeO ₂ . <i>Applied Physics Express</i> , 2017, 10, 011201.	1.1	11
100	Ultrahigh Sensitivity and Selectivity of Pentagonal SiC ₂ Monolayer Gas Sensors: The Synergistic Effect of Composition and Structural Topology. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900445.	0.7	11
101	Selective transport of ballistic phonon modes by an acoustic nanocavity in a $\hat{\Gamma}$ -shaped semiconductor nanowire. <i>Journal of Applied Physics</i> , 2008, 104, 054309.	1.1	10
102	Material properties dependence of ballistic phonon transmission through two coupled nanocavities. <i>Journal of Applied Physics</i> , 2009, 105, 124305.	1.1	10
103	Orientation-controlled synthesis and magnetism of single crystalline Co nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4043-4047.	1.0	10
104	Novel $\hat{\Gamma}^2$ -C ₃ N ₄ /CuO nanoflakes: facile synthesis and unique photocatalytic performance. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 355501.	1.3	10
105	Substrate-induced magnetism and topological phase transition in silicene. <i>Nanoscale</i> , 2018, 10, 14667-14677.	2.8	10
106	Monolayer Phosphorene-Carbon Nanotube Heterostructures for Photocatalysis: Analysis by Density Functional Theory. <i>Nanoscale Research Letters</i> , 2019, 14, 233.	3.1	10
107	Supersaturation-triggered synthesis of 2D/1D phosphide heterostructures as multi-functional catalysts for water splitting. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	10
108	Band-Gap Widening of Nitrogen-Doped Cu ₂ O: New Insights from First-Principles Calculations. <i>Science of Advanced Materials</i> , 2014, 6, 1221-1227.	0.1	10

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109	Two-dimensional chromium phosphorus monolayer based gas sensors to detect NOx: A first-principles study. Results in Physics, 2022, 32, 105100.	2.0	10
110	Selective transmission and enhanced thermal conductance of ballistic phonon by nanocavities embedded in a narrow constriction. Journal Physics D: Applied Physics, 2009, 42, 015101.	1.3	8
111	THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO_3 (X = Rh, Pd,) Tj ETQq1 1 0.784314 rgBT	1.0	8
112	Origin of photocatalytic activity of nitrogen-doped germanium dioxide under visible light from first principles. Materials Science in Semiconductor Processing, 2015, 31, 517-524.	1.9	8
113	Dual functions of 2D WS_2 and MoS_2 "WS ₂ monolayers coupled with a Ag_3PO_4 photocatalyst. Semiconductor Science and Technology, 2016, 31, 095013.	1.0	8
114	Porous graphitic carbon nitride with lamellar structure: Facile synthesis via in-site supramolecular self-assembly in alkaline solutions and superior photocatalytic activity. Advanced Powder Technology, 2019, 30, 120-125.	2.0	8
115	Interfacial Interaction between Boron Cluster and Metal Oxide Surface and Its Effects: A Case Study of $\text{B}_{20}/\text{Ag}_3\text{PO}_4$ van der Waals Heterostructure. Journal of Physical Chemistry C, 2018, 122, 6151-6158.	1.5	7
116	Co-Cu-P nanosheet-based open architecture for high-performance oxygen evolution reaction. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	7
117	Band gap engineering by lanthanide doping in the photocatalyst LaOF: First-principles study. International Journal of Modern Physics B, 2014, 28, 1450069.	1.0	6
118	Mechanism of enhanced photocatalytic activities on tungsten trioxide doped with sulfur: Dopant-type effects. Modern Physics Letters B, 2016, 30, 1650340.	1.0	6
119	In situ construction of hierarchical graphitic carbon nitride homojunction as robust bifunctional photoelectrocatalyst for overall water splitting. Journal of Chemical Technology and Biotechnology, 2020, 95, 758-769.	1.6	6
120	From monolayer to lateral heterostructure of functionalized phosphorus carbide: Evolution of electronic properties. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 118, 113962.	1.3	6
121	2D Amorphous CoO Incorporated $\text{g-C}_3\text{N}_4$ Nanotubes for Improved Photocatalytic Performance. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100254.	1.2	6
122	Highly efficient tree search algorithm for irreducible site-occupancy configurations. Physical Review B, 2022, 105, .	1.1	6
123	Annealing Effects on Photocatalytic Activity of $\text{Zn}_{0.2}\text{Cd}_{0.8}\text{S}$ Films Prepared by Chemical Bath Deposition. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	5
124	Novel urchin-like CoNiP as advanced pH-universal electrocatalysts toward hydrogen evolution reaction. Journal Physics D: Applied Physics, 2021, 54, 365502.	1.3	5
125	Study of Magnetic Properties of Ni-Fe-P and Ni-Fe-P-B Chemical Films. International Journal of Materials Research, 2002, 93, 298-302.	0.8	4
126	BALLISTIC PHONON TRANSPORT THROUGH GAUSSIAN ACOUSTIC NANOCAVITIES. Modern Physics Letters B, 2011, 25, 1631-1642.	1.0	4

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127	Tuning the near-gap electronic structure of Cu ₂ O by anion-cation co-doping for enhanced solar energy conversion. <i>Modern Physics Letters B</i> , 2017, 31, 1650429.	1.0	4
128	The influence of Nd on the corrosion behavior of electroless-deposited Fe-P. <i>International Journal of Materials Research</i> , 2007, 98, 217-220.	0.1	4
129	The electrochemical behavior and surface structure of titanium electrodes modified by ion beams. <i>Applied Surface Science</i> , 2004, 236, 13-17.	3.1	3
130	Ballistic phonon transmission in quasiperiodic acoustic nanocavities. <i>Journal of Applied Physics</i> , 2011, 109, 084310.	1.1	3
131	Effect of Gaussian acoustic nanocavities in a narrow constriction on ballistic phonon transmission. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 635-642.	1.1	2
132	Ballistic phonon transmission in a symmetric converging-diverging contact of a semiconductor nanowire. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 105102.	1.3	2
133	Reversal of thermal rectification in one-dimensional nonlinear composite system. <i>Chinese Physics B</i> , 2014, 23, 114401.	0.7	2
134	Half-metallic ferromagnetism in Fe-chain-embedded zigzag boron-nitride nanoribbons with line defect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 431-437.	1.3	2
135	Electronic and optical properties of Cr-, B-doped, and (Cr, B)-codoped SrTiO ₃ . <i>International Journal of Modern Physics B</i> , 2017, 31, 1750064.	1.0	2
136	Insights Into Interfacial Interaction and Its Influence on the Electronic and Optical Properties of Two-Dimensional WS ₂ /TX ₂ /CO ₂ (X=Ti, Zr) van der Waals Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800377.	0.7	2
137	Strain and interfacial engineering to accelerate hydrogen evolution reaction of two-dimensional phosphorus carbide*. <i>Chinese Physics B</i> , 2021, 30, 027101.	0.7	2
138	Data-Driven Approach to Designing Two-dimensional Van der Waals Heterostructures: Misjudgment of Band Alignment Type and its mechanism. <i>Physica Status Solidi - Rapid Research Letters</i> , 0, , .	1.2	2
139	INVESTIGATION OF BIAxIAL ELASTIC MODULUS AND CTE OF BaTiO ₃ FILMS. <i>International Journal of Modern Physics B</i> , 2009, 23, 4933-4941.	1.0	1
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