

Wei-Qing Huang

List of Publications by Year in descending order

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215
papers

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all docs

216
docs citations

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times ranked

9382
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a Four-Band and Polarization-Insensitive Terahertz Metamaterial Absorber. IEEE Photonics Journal, 2015, 7, 1-8.	1.0	1,789
2	Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of g-C ₃ N ₄ and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. Chemistry of Materials, 2015, 27, 1612-1621.	3.2	252
3	A novel dual-band terahertz metamaterial absorber for a sensor application. Journal of Applied Physics, 2015, 117, .	1.1	252
4	Novel Ag ₃ PO ₄ /CeO ₂ composite with high efficiency and stability for photocatalytic applications. Journal of Materials Chemistry A, 2014, 2, 1750-1756.	5.2	251
5	Visible-light absorption and photocatalytic activity of Cr-doped TiO ₂ nanocrystal films. Advanced Powder Technology, 2012, 23, 8-12.	2.0	198
6	Theoretical Investigation of Broadband and Wide-Angle Terahertz Metamaterial Absorber. IEEE Photonics Technology Letters, 2014, 26, 111-114.	1.3	176
7	A wide bandgap plasmonic Bragg reflector. Optics Express, 2008, 16, 4888.	1.7	134
8	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. Applied Catalysis B: Environmental, 2019, 254, 321-328.	10.8	134
9	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. Chemistry of Materials, 2017, 29, 5504-5512.	3.2	131
10	Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. Nanoscale, 2019, 11, 6876-6885.	2.8	128
11	Construction of g-C ₃ N ₄ /CeO ₂ /ZnO ternary photocatalysts with enhanced photocatalytic performance. Journal of Physics and Chemistry of Solids, 2017, 106, 1-9.	1.9	116
12	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. Journal Physics D: Applied Physics, 2018, 51, 275302.	1.3	110
13	Frequency Continuous Tunable Terahertz Metamaterial Absorber. Journal of Lightwave Technology, 2014, 32, 1183-1189.	2.7	102
14	Generalized Synthetic Strategy for Amorphous Transition Metal Oxides-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. Advanced Functional Materials, 2021, 31, 2009230.	7.8	97
15	High-Throughput One-Photon Excitation Pathway in 0D/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2100816.	7.8	92
16	Wavelength-Converted/Selective Waveguiding Based on Composition-Graded Semiconductor Nanowires. Nano Letters, 2012, 12, 5003-5007.	4.5	87
17	Facile synthesis and superior photocatalytic and electrocatalytic performances of porous B-doped g-C ₃ N ₄ nanosheets. Journal of Materials Science and Technology, 2018, 34, 2515-2520.	5.6	87
18	Frequency tunable metamaterial absorber at deep-subwavelength scale. Optical Materials Express, 2015, 5, 227.	1.6	82

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19	A facile and rapid route for synthesis of g-C ₃ N ₄ nanosheets with high adsorption capacity and photocatalytic activity. RSC Advances, 2016, 6, 86688-86694.	1.7	81
20	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. Nanoscale, 2020, 12, 6037-6046.	2.8	79
21	Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag ₃ PO ₄ /Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979.	1.5	78
22	Ultra-thin tubular graphitic carbon Nitride-Carbon Dot lateral heterostructures: One-Step synthesis and highly efficient catalytic hydrogen generation. Chemical Engineering Journal, 2020, 397, 125470.	6.6	72
23	Interfacial Interactions of Semiconductor with Graphene and Reduced Graphene Oxide: CeO ₂ as a Case Study. ACS Applied Materials & Interfaces, 2014, 6, 20350-20357.	4.0	71
24	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H ₂ Evolution Performance. ACS Applied Materials & Interfaces, 2019, 11, 17341-17349.	4.0	71
25	A simple design of ultra-broadband and polarization insensitive terahertz metamaterial absorber. Applied Physics A: Materials Science and Processing, 2014, 115, 1187-1192.	1.1	67
26	Ultra-narrow terahertz perfect light absorber based on surface lattice resonance of a sandwich resonator for sensing applications. RSC Advances, 2017, 7, 42956-42963.	1.7	67
27	Chlorine doped graphitic carbon nitride nanorings as an efficient photoresponsive catalyst for water oxidation and organic decomposition. Journal of Materials Science and Technology, 2019, 35, 2288-2296.	5.6	61
28	Asymmetric light propagation in composition-graded semiconductor nanowires. Scientific Reports, 2012, 2, 820.	1.6	60
29	High-Q Fano Resonance in Terahertz Frequency Based on an Asymmetric Metamaterial Resonator. Nanoscale Research Letters, 2018, 13, 294.	3.1	59
30	Dual role of monolayer MoS ₂ in enhanced photocatalytic performance of hybrid MoS ₂ /SnO ₂ nanocomposite. Journal of Applied Physics, 2016, 119, .	1.1	57
31	Organic Small Molecule Activates Transition Metal Foam for Efficient Oxygen Evolution Reaction. Advanced Materials, 2020, 32, e1906015.	11.1	56
32	In-situ construction of 2D direct Z-scheme g-C ₃ N ₄ /g-C ₃ N ₄ homojunction with high photocatalytic activity. Journal of Materials Science, 2018, 53, 15882-15894.	1.7	52
33	Penta-Graphene as a Potential Gas Sensor for NO _x Detection. Nanoscale Research Letters, 2019, 14, 306.	3.1	52
34	Origin of enhanced photocatalytic activity of F-doped CeO ₂ nanocubes. Applied Surface Science, 2016, 370, 427-432.	3.1	50
35	Metamaterial-Based Low-Conductivity Alloy Perfect Absorber. Journal of Lightwave Technology, 2014, 32, 2293-2298.	2.7	49
36	Size-controllable synthesis and enhanced photocatalytic activity of porous ZnS nanospheres. Materials Letters, 2012, 83, 104-107.	1.3	46

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37	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. Journal Physics D: Applied Physics, 2019, 52, 025501.	1.3	46
38	Coupling effect on phonon thermal transport in a double-stub quantum wire. Applied Physics Letters, 2006, 88, 163505.	1.5	45
39	Novel 3D flower-like Ag ₃ PO ₄ microspheres with highly enhanced visible light photocatalytic activity. Materials Letters, 2014, 116, 209-211.	1.3	45
40	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable <i>in situ</i> surface engineering and morphology. Nanoscale, 2019, 11, 16393-16405.	2.8	45
41	Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. Nanoscale, 2020, 12, 3135-3145.	2.8	45
42	Hierarchical Self-assembly of Well-Defined Louver-Like P-Doped Carbon Nitride Nanowire Arrays with Highly Efficient Hydrogen Evolution. Nano-Micro Letters, 2020, 12, 52.	14.4	45
43	The mechanical performance and anti-corrosion behavior of diamond-like carbon film. Diamond and Related Materials, 2003, 12, 1406-1410.	1.8	44
44	Insights into enhanced visible-light photocatalytic activity of CeO ₂ doped with nonmetal impurity from the first principles. Materials Science in Semiconductor Processing, 2016, 41, 200-208.	1.9	44
45	Tuning bandgap of a double-tooth-shaped MIM waveguide filter by control widths of the teeth. Journal of Optics (United Kingdom), 2013, 15, 055008.	1.0	40
46	A simple design of a broadband, polarization-insensitive, and low-conductivity alloy metamaterial absorber. Applied Physics Express, 2014, 7, 082601.	1.1	40
47	OD/2D Z-scheme heterojunctions of g-C ₃ N ₄ quantum dots/ZnO nanosheets as a highly efficient visible-light photocatalyst. Advanced Powder Technology, 2019, 30, 1576-1583.	2.0	40
48	Acoustic-phonon transmission and thermal conductance in a double-bend quantum waveguide. Journal of Applied Physics, 2005, 98, 093524.	1.1	39
49	Dipole Engineering of Two-Dimensional van der Waals Heterostructures for Enhanced Power-Conversion Efficiency: The Case of Janus Ga_2Se_3 <i>Physical Review Applied</i> , 2021, 16, 014001.	1.5	39
50	Ag ₃ PO ₄ Nanosheets as a Highly Efficient Visible-Light Photocatalyst: Possibilities and Challenges. Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	38
51	Electrospinning preparation of p-type NiO/n-type CeO ₂ heterojunctions with enhanced photocatalytic activity. Materials Letters, 2014, 133, 109-112.	1.3	37
52	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
53	Preparation and luminescence properties of nanocrystalline La ₂ O ₃ :Eu phosphor. Materials Letters, 2007, 61, 1968-1970.	1.3	36
54	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

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55	Molecular dynamics simulation of polycrystalline molybdenum nanowires under uniaxial tensile strain: Size effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 3030-3036.	1.3	35
56	Facile ion-exchange synthesis of mesoporous Bi ₂ S ₃ /ZnS nanoplate with high adsorption capability and photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 103-109.	5.0	35
57	Two-dimensional GaX/Sn ₂ (X = S, Se) van der Waals Heterostructures for Photovoltaic Application: Heteroatom Doping Strategy to Boost Power Conversion Efficiency. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800565.	1.2	35
58	Enhanced visible-light photoactivity of La-doped ZnS thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 895-900.	1.1	34
59	Annealing effects on photocatalytic activity of ZnS films prepared by chemical bath deposition. <i>Materials Letters</i> , 2012, 75, 221-224.	1.3	33
60	Tunable bandwidth of the terahertz metamaterial absorber. <i>Optics Communications</i> , 2014, 325, 78-83.	1.0	33
61	Facile shape-controllable synthesis of Ag ₃ PO ₄ photocatalysts. <i>Materials Letters</i> , 2014, 133, 139-142.	1.3	33
62	A host-guest self-assembly strategy to enhance π -electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132880.	6.6	33
63	Coupling effect of La doping and porphyrin sensitization on photocatalytic activity of nanocrystalline TiO ₂ . <i>Materials Letters</i> , 2013, 108, 37-40.	1.3	32
64	The enhanced photocatalytic activity of Ti ³⁺ self-doped TiO ₂ by a reduction method. <i>Materials Letters</i> , 2014, 122, 33-36.	1.3	32
65	Band engineering of ZnS by codoping for visible-light photocatalysis. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 741-750.	1.1	32
66	Electronic Structures and Photocatalytic Responses of SrTiO ₃ (100) Surface Interfaced with Graphene, Reduced Graphene Oxide, and Graphane: Surface Termination Effect. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19095-19104.	1.5	32
67	Hydroxy-carbonate-assisted synthesis of high porous graphitic carbon nitride with broken of hydrogen bonds as a highly efficient visible-light-driven photocatalyst. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 105502.	1.3	32
68	Electrochemical study of electroless deposition of Fe-P alloys. <i>Electrochimica Acta</i> , 2006, 51, 4471-4476.	2.6	31
69	Insights into enhanced visible-light photocatalytic activity of C ₆₀ modified g-C ₃ N ₄ hybrids: the role of nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33094-33102.	1.3	31
70	Electric-field-induced widely tunable direct and indirect band gaps in hBN/MoS ₂ van der Waals heterostructures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4426-4434.	2.7	29
71	Design of Quad-Band Terahertz Metamaterial Absorber Using a Perforated Rectangular Resonator for Sensing Applications. <i>Nanoscale Research Letters</i> , 2018, 13, 137.	3.1	29
72	Hollow BCN microrods with hierarchical multichannel structure as a multifunctional material: Synergistic effects of structural topology and composition. <i>Carbon</i> , 2019, 148, 231-240.	5.4	29

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73	Discontinuity effect on the phonon transmission and thermal conductance in a dielectric quantum waveguide. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 336, 245-252.	0.9	28
74	Electronic properties and photoactivity of monolayer MoS ₂ /fullerene van der Waals heterostructures. <i>RSC Advances</i> , 2016, 6, 43228-43236.	1.7	28
75	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
76	Band structure engineering of monolayer MoS ₂ : a charge compensated codoping strategy. <i>RSC Advances</i> , 2015, 5, 7944-7952.	1.7	26
77	Simplified Design for Broadband and Polarization-Insensitive Terahertz Metamaterial Absorber. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1115-1118.	1.3	26
78	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
79	Phonon-cavity-enhanced low-temperature thermal conductance of a semiconductor nanowire with narrow constrictions. <i>Physical Review B</i> , 2007, 75, .	1.1	24
80	Efficient ultraviolet emission of ZnS nanospheres: Co doping enhancement. <i>Materials Letters</i> , 2013, 100, 237-240.	1.3	24
81	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
82	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
83	A simple nested metamaterial structure with enhanced bandwidth performance. <i>Optics Communications</i> , 2013, 303, 13-14.	1.0	23
84	Tunable synthesis of various ZnO architectural structures with enhanced photocatalytic activities. <i>Materials Letters</i> , 2016, 175, 68-71.	1.3	23
85	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
86	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
87	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
88	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
89	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
90	LATTICE THERMAL CONDUCTIVITY IN A HOLLOW SILICON NANOWIRE. <i>International Journal of Modern Physics B</i> , 2005, 19, 1017-1027.	1.0	19

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91	A novel photocatalyst CeF ₃ : facile fabrication and photocatalytic performance. RSC Advances, 2015, 5, 95171-95177.	1.7	19
92	Mesoporous g-C ₃ N ₄ Nanosheets: Synthesis, Superior Adsorption Capacity and Photocatalytic Activity. Journal of Nanoscience and Nanotechnology, 2018, 18, 5502-5510.	0.9	19
93	A design rule for two-dimensional van der Waals heterostructures with unconventional band alignments. Physical Chemistry Chemical Physics, 2020, 22, 3037-3047.	1.3	19
94	Preparation of amorphous rare-earth films of Niâ€“Reâ€“P (Re=Ce, Nd) by electrodeposition from an aqueous bath. Surface and Coatings Technology, 2005, 192, 208-212.	2.2	18
95	A triangular shaped channel MIM waveguide filter. Journal of Modern Optics, 2012, 59, 1686-1689.	0.6	18
96	Broadband, polarization-insensitive and wide-angle terahertz metamaterial absorber. Physica Scripta, 2014, 89, 115501.	1.2	18
97	Enhancement of photocatalytic activity of combustion-synthesized CeO ₂ /C ₃ N ₄ nanoparticles. Applied Physics A: Materials Science and Processing, 2015, 120, 1205-1209.	1.1	18
98	Morphology-controlled SnS ₂ nanostructures synthesized by refluxing method with high photocatalytic activity. Materials Letters, 2015, 161, 480-483.	1.3	18
99	Design of Dual-Band Plasmon-Induced Transparent Effect Based on Composite Structure of Closed-Ring and Square Patch. Plasmonics, 2019, 14, 533-538.	1.8	18
100	Tunable Schottky barrier in van der Waals heterostructures of graphene and hydrogenated phosphorus carbide monolayer: first-principles calculations. Journal Physics D: Applied Physics, 2019, 52, 305104.	1.3	18
101	Acid-induced topological morphology modulation of graphitic carbon nitride homojunctions as advanced metal-free catalysts for OER and pollutant degradation. Journal of Materials Science and Technology, 2021, 86, 210-218.	5.6	18
102	Symmetry-Breaking-Induced Multifunctionalities of Two-Dimensional Chromium-Based Materials for Nanoelectronics and Clean Energy Conversion. Physical Review Applied, 2022, 18, .	1.5	18
103	Magnetic properties of CoFeP films prepared by electroless deposition. Journal of Magnetism and Magnetic Materials, 2009, 321, 1177-1181.	1.0	17
104	Enhanced photocatalytic activity of hexagonal flake-like Bi ₂ S ₃ /ZnS composites with a large percentage of reactive facets. Journal Physics D: Applied Physics, 2016, 49, 305105.	1.3	17
105	A two-dimensional MoS ₂ /SnS heterostructure for promising photocatalytic performance: First-principles investigations. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114453.	1.3	17
106	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⁺ . Science China Materials, 2021, 64, 3037-3050.	3.5	17
107	Luminescent and photocatalytic properties of hollow SnO ₂ nanospheres. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 725-729.	1.7	16
108	Theoretical insight into the electronic and photocatalytic properties of Cu ₂ O from a hybrid density functional theory. Materials Science in Semiconductor Processing, 2014, 23, 34-41.	1.9	16

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109	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
110	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
111	Algorithm for generating irreducible site-occupancy configurations. <i>Physical Review B</i> , 2020, 102, .	1.1	16
112	Promoting a Weak Coupling of Monolayer MoSe ₂ Grown on (100)-Faceted Au Foil. <i>ACS Nano</i> , 2021, 15, 4481-4489.	7.3	16
113	A surface optical phonon assisted transition in a semi-infinite superlattice with a cap layer. <i>Semiconductor Science and Technology</i> , 2006, 21, 751-757.	1.0	15
114	Native vacancy defects in bismuth sulfide. <i>International Journal of Modern Physics B</i> , 2014, 28, 1450150.	1.0	15
115	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
116	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
117	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
118	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
119	Wideband and low dispersion slow-light waveguide based on a photonic crystal with crescent-shaped air holes. <i>Applied Optics</i> , 2012, 51, 5735.	0.9	14
120	The mechanism of enhanced photocatalytic activity of SnO ₂ through fullerene modification. <i>Current Applied Physics</i> , 2017, 17, 1547-1556.	1.1	14
121	A broadband, polarisation-insensitive and wide-angle coplanar terahertz metamaterial absorber. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	13
122	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
123	Single Metamaterial Resonator Having Five-Band Terahertz Near-Perfect Absorption. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1888-1891.	1.3	13
124	Design of triple-band polarization controlled terahertz metamaterial absorber. <i>Superlattices and Microstructures</i> , 2018, 114, 225-232.	1.4	13
125	Electrostatic Potential Anomaly in 2D Janus Transition Metal Dichalcogenides. <i>Annalen Der Physik</i> , 2019, 531, 1900369.	0.9	13
126	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

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127	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
128	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
129	Multiple-Band Ultra-Thin Perfect Metamaterial Absorber Using Analogy Split-Ring Resonators. <i>Plasmonics</i> , 2019, 14, 1789-1800.	1.8	12
130	The influence of boundary conditions on thermal conductance in semiconductor quantum wire with structural defect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 234-240.	0.9	11
131	Acoustic phonon transport and thermal conductance in a periodically modulated quantum wire. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1497-1500.	1.3	11
132	Surface phonon polaritons in a semi-infinite superlattice with a cap layer consisting of ternary crystal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 360, 638-644.	0.9	11
133	Optical Characteristics of La-Doped ZnS Thin Films Prepared by Chemical Bath Deposition. <i>Chinese Physics Letters</i> , 2011, 28, 027806.	1.3	11
134	Mass production of ZnxCd1-xS nanoparticles with enhanced visible light photocatalytic activity. <i>Materials Letters</i> , 2015, 158, 432-435.	1.3	11
135	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
136	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
137	Monolayer PtTe ₂ : A promising candidate for NO ₂ sensor with ultrahigh sensitivity and selectivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114925.	1.3	11
138	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
139	Material properties dependence of ballistic phonon transmission through two coupled nanocavities. <i>Journal of Applied Physics</i> , 2009, 105, 124305.	1.1	10
140	Optical transmission through double-layer compound metallic gratings with subwavelength slits. <i>Journal of Modern Optics</i> , 2012, 59, 1342-1348.	0.6	10
141	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
142	Novel $\sqrt{3}\times\sqrt{3}$ -R ₂ O ₃ /CuO nanoflakes: facile synthesis and unique photocatalytic performance. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 355501.	1.3	10
143	Substrate-induced magnetism and topological phase transition in silicene. <i>Nanoscale</i> , 2018, 10, 14667-14677.	2.8	10
144	Monolayer Phosphorene-Carbon Nanotube Heterostructures for Photocatalysis: Analysis by Density Functional Theory. <i>Nanoscale Research Letters</i> , 2019, 14, 233.	3.1	10

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145	Supersaturation-triggered synthesis of 2D/1D phosphide heterostructures as multi-functional catalysts for water splitting. Applied Physics Letters, 2021, 118, .	1.5	10
146	Band-Gap Widening of Nitrogen-Doped Cu ₂ O: New Insights from First-Principles Calculations. Science of Advanced Materials, 2014, 6, 1221-1227.	0.1	10
147	Two-dimensional chromium phosphorus monolayer based gas sensors to detect NOx: A first-principles study. Results in Physics, 2022, 32, 105100.	2.0	10
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