

Guowei Yang

List of Publications by Year in descending order

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221
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223
all docs

223
docs citations

223
times ranked

15324
citing authors

#	ARTICLE	IF	CITATIONS
1	Palladium-polymer bilayer on a soft substrate for optical hydrogen sensing. Nano Select, 2022, 3, 655-661.	3.7	5
2	Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. Nano Research, 2022, 15, 1709-1714.	10.4	8
3	Highly efficient Cu ₂ ZnSn(S,Se) ₄ bifacial solar cell via a composition gradient strategy through the molecular ink. Science China Materials, 2022, 65, 612-619.	6.3	7
4	A facile and green large-scale fabrication of single atom catalysts for high photocatalytic H ₂ evolution activity. Chemical Engineering Journal, 2022, 427, 131795.	12.7	26
5	2D Layered Material Alloys: Synthesis and Application in Electronic and Optoelectronic Devices. Advanced Science, 2022, 9, e2103036.	11.2	38
6	Ultrafast dynamics of photoexcited carriers and coherent phonons in ultrathin Bi ₂ Te ₃ thermoelectric films. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	2
7	Electronic structure regulation of cobalt oxide clusters for promoting photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 1899-1908.	10.3	15
8	Pulsed-Laser Deposition Fabricated ZnIn ₂ S ₄ Photodetectors with Excellent ON/OFF Switching Characteristics toward High-Temperature-Resistant Photodetection Applications. Advanced Optical Materials, 2022, 10, .	7.3	16
9	Superior peroxidase mimetic activity induced by topological surface states of Weyl semimetal WTe ₂ . Nano Today, 2022, 43, 101421.	11.9	12
10	A perspective on optimizing photoelectric conversion process in 2D transition-metal dichalcogenides and related heterostructures. Applied Physics Letters, 2022, 120, .	3.3	9
11	Nanoscale Self-Wetting Driven Monatomization of Ag Nanoparticle for Excellent Photocatalytic Hydrogen Evolution. Small, 2022, 18, e2107840.	10.0	12
12	Atomically Dispersed Cu Nanozyme with Intensive Ascorbate Peroxidase Mimic Activity Capable of Alleviating ROS-Mediated Oxidation Damage. Advanced Science, 2022, 9, e2103977.	11.2	38
13	Suspended Palladium/Polymer Bilayer for High-Contrast and Fast Hydrogen Sensors. ACS Sensors, 2022, 7, 116-122.	7.8	9
14	Promoting the Performance of 2D Material Photodetectors by Dielectric Engineering. Small Methods, 2022, 6, e2101046.	8.6	20
15	<i>In situ</i> integration of Te/Si 2D/3D heterojunction photodetectors toward UV-vis-IR ultra-broadband photoelectric technologies. Nanoscale, 2022, 14, 6228-6238.	5.6	9
16	Van der Waals heterostructures based on 2D layered materials: Fabrication, characterization, and application in photodetection. Journal of Applied Physics, 2022, 131, .	2.5	11
17	A flexibly switchable TaIrTe ₄ -WSe ₂ van der Waals heterojunction photodetector with linear-polarization-dependent photosensitivity. Applied Physics Letters, 2022, 120, .	3.3	8
18	Self-Supporting, Binder-Free, and Flexible Ti ₃ C ₂ T _x MXene-Based Supercapacitor Electrode with Improved Electrochemical Performance. ACS Nano, 2022, 16, 9713-9727.	14.6	76

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19	Optically controlled coalescence and splitting of femtoliter/picoliter droplets for microreactors. RSC Advances, 2022, 12, 18311-18320.	3.6	3
20	Promoting photocatalytic hydrogen evolution by introducing hot islands: SnSe nanoparticles on ZnIn ₂ S ₄ monolayer. Chemical Engineering Journal, 2021, 404, 126477.	12.7	44
21	Ternary Ta ₂ PdS ₆ Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. Advanced Materials, 2021, 33, e2005607.	21.0	44
22	A hybrid gold-carbyne nanocrystals platform for light-induced crossover of redox enzyme-like activities. Chemical Engineering Journal, 2021, 408, 127244.	12.7	9
23	Giant Switching Effect and Spintronic Transport Properties in Cyclo[18]carbon-Based Molecular Devices. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000582.	2.4	12
24	Ti ₃ C ₂ T _x MXene for electrode materials of supercapacitors. Journal of Materials Chemistry A, 2021, 9, 11501-11529.	10.3	181
25	Paramagnetism of carbyne nanocrystals. Materials Today Communications, 2021, 26, 102152.	1.9	1
26	Single Polylactic Acid Nanowire for Highly Sensitive and Multifunctional Optical Biosensing. ACS Applied Materials & Interfaces, 2021, 13, 27983-27990.	8.0	9
27	A New Wide Bandgap Semiconductor: Carbyne Nanocrystals. Advanced Functional Materials, 2021, 31, 2104254.	14.9	6
28	Microsphere-assisted manipulation of a single Ag nanowire. Nanophotonics, 2021, 10, 2729-2736.	6.0	1
29	PentaPdPSe: A New 2D Pentagonal Material with Highly In-Plane Optical, Electronic, and Optoelectronic Anisotropy. Advanced Materials, 2021, 33, e2102541.	21.0	66
30	Multielement 2D layered material photodetectors. Nanotechnology, 2021, 32, 392001.	2.6	12
31	Bifacial Cu ₂ ZnSn(S,Se) ₄ Thin Film Solar Cell Based on Molecular Ink and Rapid Thermal Processing. Advanced Materials Interfaces, 2021, 8, 2100971.	3.7	6
32	Ratiometric fluorescent sensor based on 2D MOF nanosheets modified by DNA for sensitive detection of Hg ²⁺ . Nanotechnology, 2021, 32, 505501.	2.6	8
33	Mie resonant scattering-based refractive index sensor using a quantum dots-doped polylactic acid nanowire. Applied Physics Letters, 2021, 119, .	3.3	3
34	A Universal and Facile Method of Tailoring the Thickness of Mo(S _x ,Se _{1-x}) ₂ , Contributing to Highly Efficient Flexible Cu ₂ ZnSn(S,Se) ₄ Solar Cells. Solar Rrl, 2021, 5, 2100598.	5.8	13
35	Enhancing electron density of bulk g-C ₃ N ₄ through phosphorus doping for promoting photocatalytic hydrogen evolution reaction. Applied Surface Science, 2021, 570, 151186.	6.1	30
36	Individual Si Nanospheres Wrapped in a Suspended Monolayer WS ₂ for Electromechanically Controlled Mie-Type Nanopixels. Advanced Optical Materials, 2021, 9, 2001954.	7.3	7

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37	Research Progress on the Application of Lanthanide-Ion-Doped Phosphor Materials in Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2021, 9, 1035-1060.	6.7	33
38	9.63% efficient flexible Cu ₂ ZnSn(S,Se) ₄ solar cells fabricated <i>via</i> scalable doctor-blading under ambient conditions. Journal of Materials Chemistry A, 2021, 9, 25062-25072.	10.3	15
39	Carbyne Nanocrystal: One-Dimensional van der Waals Crystal. ACS Nano, 2021, 15, 16769-16776.	14.6	7
40	Construction of GQDsâ€‘Decorated Ultrathin Bi ₂ WO ₆ Nanosheets Hydrogel: a Recyclableâ€‘Flexible Platform with Excellent Piezoâ€‘Photocatalytic Activity for Highâ€‘Performance Water Decontamination and its Theoretical Interpretation. Particle and Particle Systems Characterization, 2021, 38, .	2.3	7
41	Lightâ€‘Matter Interactions between Germanium Nanocavities and Quantum Dots at Visible Wavelengths. Journal of Physical Chemistry C, 2021, 125, 812-818.	3.1	2
42	Directâ€‘indirect bandgap transition in monolayer MoS ₂ induced by an individual Si nanoparticle. Nanotechnology, 2020, 31, 065204.	2.6	9
43	Enhanced carrier separation and increased electron density in 2D heavily N-doped ZnIn ₂ S ₄ for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2020, 8, 207-217.	10.3	131
44	2D material broadband photodetectors. Nanoscale, 2020, 12, 454-476.	5.6	167
45	Constructing Builtâ€‘in Electric Field in Ultrathin Graphitic Carbon Nitride Nanosheets by N and O Codoping for Enhanced Photocatalytic Hydrogen Evolution Activity. Small, 2020, 16, e1905700.	10.0	79
46	Surprising Efficiency Enhancement of Cu ₂ ZnSn(S,Se) ₄ Solar Cells with Abnormal Zn/Sn Ratios. Solar Rrl, 2020, 4, 2000325.	5.8	25
47	Europium (II)â€‘Doped Allâ€‘inorganic CsPbBr ₃ Perovskite Solar Cells with Carbon Electrodes. Solar Rrl, 2020, 4, 2000390.	5.8	41
48	All-dielectric materials and related nanophotonic applications. Materials Science and Engineering Reports, 2020, 141, 100563.	31.8	28
49	Self-integrated effects of 2D ZnIn ₂ S ₄ and amorphous Mo ₂ C nanoparticles composite for promoting solar hydrogen generation. Nano Energy, 2020, 76, 105031.	16.0	106
50	Non-layered 2D materials toward advanced photoelectric devices: progress and prospects. Materials Horizons, 2020, 7, 2185-2207.	12.2	47
51	Directional radiation and photothermal effect enhanced control of 2D excitonic emission based on germanium nanoparticles. Nanotechnology, 2020, 31, 385201.	2.6	2
52	Active tuning of Mie resonances to realize sensitive photothermal measurement of single nanoparticles. Materials Horizons, 2020, 7, 1542-1551.	12.2	12
53	Modified Ti ₃ C ₂ nanosheets as peroxidase mimetics for use in colorimetric detection and immunoassays. Journal of Materials Chemistry B, 2020, 8, 2650-2659.	5.8	35
54	A fluorescent and colorimetric probe of carbyne nanocrystals coated Au nanoparticles for selective and sensitive detection of ferrous ions. Carbon, 2020, 167, 196-201.	10.3	20

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55	Multiple resonance coupling in an individual germanium nanogroove with organic dyes. Journal Physics D: Applied Physics, 2020, 53, 215103.	2.8	1
56	2D group 6 transition metal dichalcogenides toward wearable electronics and optoelectronics. Journal of Applied Physics, 2020, 127, .	2.5	19
57	Millimeters long super flexible Mn ₅ Si ₃ @SiO ₂ electrical nanocables applicable in harsh environments. Nature Communications, 2020, 11, 647.	12.8	18
58	Visible-light-driven room-temperature gas sensor based on carbyne nanocrystals. Sensors and Actuators B: Chemical, 2020, 316, 128200.	7.8	11
59	Loss-favored ultrasensitive refractive index sensor based on directional scattering from a single all-dielectric nanosphere. Journal of Materials Chemistry C, 2020, 8, 6350-6357.	5.5	3
60	Hot Carriers and Photothermal Effects of Monolayer MoO _x for Promoting Sulfite Oxidase Mimetic Activity. ACS Applied Materials & Interfaces, 2020, 12, 19357-19368.	8.0	18
61	Photothermal conversion assisted photocatalytic hydrogen evolution from amorphous carbon nitrogen nanosheets with nitrogen vacancies. Physical Chemistry Chemical Physics, 2020, 22, 4453-4463.	2.8	21
62	Second harmonic generation in 2D layered materials. 2D Materials, 2020, 7, 042002.	4.4	62
63	Trapping and filtering of light by single Si nanospheres in a GaAs nanocavity. Nanoscale, 2019, 11, 16299-16307.	5.6	2
64	Cross-linked bond accelerated interfacial charge transfer in monolayer zinc indium sulfide (ZnIn ₂ S ₄)/reduced graphene oxide (RGO) heterostructure for photocatalytic hydrogen production with mechanistic insight. Catalysis Science and Technology, 2019, 9, 4066-4076.	4.1	26
65	Interface Engineering of Band Evolution and Transport Properties of Bilayer WSe ₂ under Different Electric Fields. Journal of Physical Chemistry C, 2019, 123, 19812-19819.	3.1	4
66	CdS Nanorod-Amorphous Molybdenum Oxide Nanocomposite for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2019, 2, 6783-6792.	5.0	24
67	Oxygen Vacancy-Engineered PEGylated MoO ₃ Nanoparticles with Superior Sulfite Oxidase Mimetic Activity for Vitamin B1 Detection. Small, 2019, 15, e1903153.	10.0	41
68	Scalable and green production of porous graphene nanosheets for flexible supercapacitors. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	7
69	Amorphous Fe ₂ O ₃ for photocatalytic hydrogen evolution. Catalysis Science and Technology, 2019, 9, 5582-5592.	4.1	40
70	Single silicon nanostripe gated suspended monolayer and bilayer WS ₂ to realize abnormal electro-optical modulation. Materials Horizons, 2019, 6, 334-342.	12.2	17
71	Improvement of Cu ₂ ZnSn(S,Se) ₄ Solar Cells by Adding N,N-Dimethylformamide to the Dimethyl Sulfoxide-Based Precursor Ink. ChemSusChem, 2019, 12, 1692-1699.	6.8	26
72	Active Pore-Edge Engineering of Single-Layer Niobium Diselenide Porous Nanosheets Electrode for Hydrogen Evolution. Nanomaterials, 2019, 9, 751.	4.1	11

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73	Recent progress in inkjet-printed solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13873-13902.	10.3	102
74	Fullerene-like MoS ₂ Nanoparticles as Cascade Catalysts Improving Lubricant and Antioxidant Abilities of Artificial Synovial Fluid. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3079-3088.	5.2	29
75	Directional Fano Resonance in an Individual GaAs Nanospheroid. <i>Small</i> , 2019, 15, e1900546.	10.0	16
76	Tunable Control of Interlayer Excitons in WS ₂ /MoS ₂ Heterostructures via Strong Coupling with Enhanced Mie Resonances. <i>Advanced Science</i> , 2019, 6, 1802092.	11.2	40
77	Dynamic radiative tailoring based on mid-refractive dielectric nanoantennas. <i>Nanoscale Horizons</i> , 2019, 4, 712-719.	8.0	11
78	Half-unit-cell ZnIn ₂ S ₄ monolayer with sulfur vacancies for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 193-201.	20.2	369
79	Determination of optimum optoelectronic properties in vertically stacked MoS ₂ /h-BN/WSe ₂ van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23179-23186.	2.8	19
80	Active tuning of the Fano resonance from a Si nanosphere dimer by the substrate effect. <i>Nanoscale Horizons</i> , 2019, 4, 148-157.	8.0	18
81	Co ₂ P@NiCo ₂ O ₄ bi-functional electrocatalyst with low overpotential for water splitting in wide range pH electrolytes. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 55-63.	9.4	34
82	Cobalt decorated ultra-thin Ti ₃ C ₂ MXene electrocatalyst for high-efficiency hydrogen evolution reaction. <i>Materials Research Express</i> , 2019, 6, 025056.	1.6	14
83	Photoluminescence manipulation of WS ₂ flakes by an individual Si nanoparticle. <i>Materials Horizons</i> , 2019, 6, 97-106.	12.2	36
84	CuMnO ₂ nanoflakes as pH-switchable catalysts with multiple enzyme-like activities for cysteine detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 374-384.	7.8	65
85	Flexible and High-Performance All-2D Photodetector for Wearable Devices. <i>Small</i> , 2018, 14, e1704524.	10.0	128
86	An efficient solar-enabled 2D layered alloy material evaporator for seawater desalination. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3869-3876.	10.3	72
87	An All-Dielectric Metasurface Building Block for the Kerker Effect between Excitons and Nanocavities: Germanium Nanogroove. <i>Advanced Optical Materials</i> , 2018, 6, 1701176.	7.3	7
88	Hydrogen-interstitial CuWO ₄ nanomesh: A single-component full spectrum-active photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 35-43.	20.2	41
89	Layered tin monoselenide as advanced photothermal conversion materials for efficient solar energy-driven water evaporation. <i>Nanoscale</i> , 2018, 10, 2876-2886.	5.6	94
90	Nanozymatic Antioxidant System Based on MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12453-12462.	8.0	148

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91	Few-layered MoSe ₂ nanosheets as an efficient peroxidase nanozyme for highly sensitive colorimetric detection of H ₂ O ₂ and xanthine. Journal of Materials Chemistry B, 2018, 6, 105-111.	5.8	83
92	Fabrication of a high performance ZnIn ₂ S ₄ /Si heterostructure photodetector array for weak signal detection. Journal of Materials Chemistry C, 2018, 6, 12928-12939.	5.5	25
93	Two-dimensional amorphous NiO as a plasmonic photocatalyst for solar H ₂ evolution. Nature Communications, 2018, 9, 4036.	12.8	174
94	Ultrasensitive 2D/3D Heterojunction Multicolor Photodetectors: A Synergy of Laterally and Vertically Aligned 2D Layered Materials. ACS Applied Materials & Interfaces, 2018, 10, 38166-38172.	8.0	39
95	Facile and scalable production of amorphous nickel borate for high performance hybrid supercapacitors. Journal of Materials Chemistry A, 2018, 6, 19689-19695.	10.3	38
96	In Situ Growth of the Ni ₃ V ₂ O ₈ @PANI Composite Electrode for Flexible and Transparent Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 20688-20695.	8.0	83
97	Inorganic fullerene-like molybdenum selenide with good biocompatibility synthesized by laser ablation in liquids. Nanotechnology, 2018, 29, 295604.	2.6	13
98	Tin dioxide quantum dots coupled with graphene for high-performance bulk-silicon Schottky photodetector. Materials Horizons, 2018, 5, 727-737.	12.2	61
99	Creating a Nanoscale "Black Hole" to Trap Light by a Single Au Nanosphere in an All-Dielectric Nanocavity. Advanced Optical Materials, 2018, 6, 1800366.	7.3	1
100	The optical duality of tellurium nanoparticles for broadband solar energy harvesting and efficient photothermal conversion. Science Advances, 2018, 4, eaas9894.	10.3	159
101	Molecular Luminescence of White Carbon. Small, 2017, 13, 1603495.	10.0	15
102	Dual-functional photocatalysis for hydrogen evolution from industrial wastewaters. Physical Chemistry Chemical Physics, 2017, 19, 8356-8362.	2.8	25
103	An Innovative Postdeposition Annealing Approach Producing Centimeter-Scale In ₂ O ₃ /In ₂ (TeO ₃) ₃ Bulk Heterojunction Thin Film for Room-Temperature Persistent Photoconductivity. Advanced Optical Materials, 2017, 5, 1600908.	7.3	19
104	Generating scattering dark states through the Fano interference between excitons and an individual silicon nanogroove. Light: Science and Applications, 2017, 6, e16197-e16197.	16.6	31
105	Self-Assembly of the Lateral In ₂ Se ₃ /CuInSe ₂ Heterojunction for Enhanced Photodetection. ACS Applied Materials & Interfaces, 2017, 9, 7288-7296.	8.0	57
106	Modifying photocatalysts for solar hydrogen evolution based on the electron behavior. Journal of Materials Chemistry A, 2017, 5, 5235-5259.	10.3	36
107	Centimeter-Scale Deposition of Mo _{0.5} W _{0.5} Se ₂ Alloy Film for High-Performance Photodetectors on Versatile Substrates. ACS Applied Materials & Interfaces, 2017, 9, 14920-14928.	8.0	74
108	Plasmon-Induced Energy Transfer and Photoluminescence Manipulation in MoS ₂ with a Different Number of Layers. ACS Photonics, 2017, 4, 1092-1100.	6.6	39

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109	Enhanced second harmonic generation in individual barium titanate nanoparticles driven by Mie resonances. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4810-4819.	5.5	33
110	Transparent, flexible, and high-performance supercapacitor based on ultrafine nickel cobaltite nanospheres. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	17
111	Manipulating the hydrogen evolution pathway on composition-tunable CuNi nanoalloys. <i>Journal of Materials Chemistry A</i> , 2017, 5, 773-781.	10.3	68
112	Alloying-assisted phonon engineering of layered BiInSe ₃ @nickel foam for efficient solar-enabled water evaporation. <i>Nanoscale</i> , 2017, 9, 16396-16403.	5.6	59
113	A 2D self-assembled MoS ₂ /ZnIn ₂ S ₄ heterostructure for efficient photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2017, 9, 18290-18298.	5.6	121
114	Nanodiamonds as pH-switchable oxidation and reduction catalysts with enzyme-like activities for immunoassay and antioxidant applications. <i>Nanoscale</i> , 2017, 9, 15673-15684.	5.6	40
115	All-layered 2D Optoelectronics: A High-performance UV-vis-NIR Broadband SnSe Photodetector with Bi ₂ Te ₃ Topological Insulator Electrodes. <i>Advanced Functional Materials</i> , 2017, 27, 1701823.	14.9	222
116	WSe ₂ few layers with enzyme mimic activity for high-sensitive and high-selective visual detection of glucose. <i>Nanoscale</i> , 2017, 9, 11806-11813.	5.6	97
117	A flexible, transparent and high-performance gas sensor based on layer-materials for wearable technology. <i>Nanotechnology</i> , 2017, 28, 415501.	2.6	25
118	Self-Assembly High-Performance UV-vis-NIR Broadband In ₂ Se ₃ /Si Photodetector Array for Weak Signal Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43830-43837.	8.0	95
119	Directional Scattering in a Germanium Nanosphere in the Visible Light Region. <i>Advanced Optical Materials</i> , 2017, 5, 1700761.	7.3	37
120	Electrically Controlled Scattering in a Hybrid Dielectric-Plasmonic Nanoantenna. <i>Nano Letters</i> , 2017, 17, 4793-4800.	9.1	19
121	Nanodiamond-Embedded p-Type Copper(I) Oxide Nanocrystals for Broad-Spectrum Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016, 6, 1501865.	19.5	81
122	A Floating Sheet for Efficient Photocatalytic Water Splitting. <i>Advanced Energy Materials</i> , 2016, 6, 1600510.	19.5	74
123	Amorphous transitional metal borides as substitutes for Pt cocatalysts for photocatalytic water splitting. <i>Nano Energy</i> , 2016, 27, 103-113.	16.0	142
124	Enhancing local luminescence in a hollow ZnO microcolumn by antiresonant reflecting. <i>Nanoscale</i> , 2016, 8, 9226-9233.	5.6	5
125	Nanodiamonds: Nanodiamond-Embedded p-Type Copper(I) Oxide Nanocrystals for Broad-Spectrum Photocatalytic Hydrogen Evolution (Adv. Energy Mater. 4/2016). <i>Advanced Energy Materials</i> , 2016, 6, n/a-n/a.	19.5	0
126	Promoting the Performance of Layered-Material Photodetectors by Alloy Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12915-12924.	8.0	133

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127	Flexible, transparent and ultra-broadband photodetector based on large-area WSe ₂ film for wearable devices. Nanotechnology, 2016, 27, 225501.	2.6	254
128	Giant nonlinear optical responses of carbyne. Journal of Materials Chemistry C, 2016, 4, 4692-4698.	5.5	36
129	Self-assembling solid-state hydrogen source for drylands photocatalytic hydrogen production. Journal of Materials Chemistry A, 2016, 4, 15920-15928.	10.3	12
130	Growth of centimeter-scale high-quality In ₂ Se ₃ films for transparent, flexible and high performance photodetectors. Journal of Materials Chemistry C, 2016, 4, 8094-8103.	5.5	83
131	Midrefractive Dielectric Modulator for Broadband Unidirectional Scattering and Effective Radiative Tailoring in the Visible Region. ACS Applied Materials & Interfaces, 2016, 8, 22468-22476.	8.0	26
132	Synergistic Effect of Hybrid Multilayer In ₂ Se ₃ and Nanodiamonds for Highly Sensitive Photodetectors. ACS Applied Materials & Interfaces, 2016, 8, 20200-20211.	8.0	59
133	Stable, Fast UV-Vis-NIR Photodetector with Excellent Responsivity, Detectivity, and Sensitivity Based on In ₂ Te ₃ Films with a Direct Bandgap. ACS Applied Materials & Interfaces, 2016, 8, 20872-20879.	8.0	85
134	Layered-material WS ₂ /topological insulator Bi ₂ Te ₃ heterostructure photodetector with ultrahigh responsivity in the range from 370 to 1550 nm. Journal of Materials Chemistry C, 2016, 4, 7831-7840.	5.5	135
135	Plasmon resonances in semiconductor materials for detecting photocatalysis at the single-particle level. Nanoscale, 2016, 8, 15001-15007.	5.6	18
136	Cubic boron nitride with an intrinsic peroxidase-like activity. RSC Advances, 2016, 6, 70124-70132.	3.6	23
137	Second harmonic generation from an individual amorphous selenium nanosphere. Nanotechnology, 2016, 27, 425206.	2.6	12
138	Second harmonic generation from an individual all-dielectric nanoparticle: resonance enhancement versus particle geometry. Journal of Materials Chemistry C, 2016, 4, 6063-6069.	5.5	19
139	A flexible, transparent and super-long-life supercapacitor based on ultrafine Co ₃ O ₄ nanocrystal electrodes. Nanoscale, 2016, 8, 4227-4235.	5.6	205
140	Reduced TiO ₂ -Graphene Oxide Heterostructure As Broad Spectrum-Driven Efficient Water-Splitting Photocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 8536-8545.	8.0	140
141	Plasmonic near-touching titanium oxide nanoparticles to realize solar energy harvesting and effective local heating. Nanoscale, 2016, 8, 8826-8838.	5.6	69
142	New type high-index dielectric nanosensors based on the scattering intensity shift. Nanoscale, 2016, 8, 5996-6007.	5.6	50
143	Amorphous mixed-metal hydroxide nanostructures for advanced water oxidation catalysts. Nanoscale, 2016, 8, 5015-5023.	5.6	60
144	Robust topological surface transport with weak localization bulk channels in polycrystalline Bi ₂ Te ₃ films. Journal Physics D: Applied Physics, 2016, 49, 095003.	2.8	17

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145	Polarization dependent photocurrent in the Bi ₂ Te ₃ topological insulator film for multifunctional photodetection. Scientific Reports, 2015, 5, 14184.	3.3	57
146	Lasing from an individual ZnO hexagonal microrod on the Au surface coated by a nanometer-scaled SiO ₂ layer. Applied Physics A: Materials Science and Processing, 2015, 120, 817-821.	2.3	2
147	Super low threshold plasmonic WGM lasing from an individual ZnO hexagonal microrod on an Au substrate for plasmon lasers. Scientific Reports, 2015, 5, 8776.	3.3	21
148	Matching energy levels between TiO ₂ and γ -Fe ₂ O ₃ in a core-shell nanoparticle for visible-light photocatalysis. Journal of Materials Chemistry A, 2015, 3, 14853-14863.	10.3	57
149	A metallic metal oxide (Ti ₅ O ₉)-metal oxide (TiO ₂) nanocomposite as the heterojunction to enhance visible-light photocatalytic activity. Nanotechnology, 2015, 26, 255705.	2.6	16
150	Electronic Reconstruction of γ -Ag ₂ WO ₄ Nanorods for Visible-Light Photocatalysis. ACS Nano, 2015, 9, 7256-7265.	14.6	131
151	Promoting Photosensitivity and Detectivity of the Bi/Si Heterojunction Photodetector by Inserting a WS ₂ Layer. ACS Applied Materials & Interfaces, 2015, 7, 26701-26708.	8.0	98
152	Fluorescence Origin of Nanodiamonds. Journal of Physical Chemistry C, 2015, 119, 2239-2248.	3.1	79
153	Directional Fano Resonance in a Silicon Nanosphere Dimer. ACS Nano, 2015, 9, 2968-2980.	14.6	198
154	Ag/AgCl plasmonic cubes with ultrahigh activity as advanced visible-light photocatalysts for photodegrading dyes. Journal of Materials Chemistry A, 2015, 3, 7649-7658.	10.3	88
155	Amorphous Nickel Hydroxide Nanosheets with Ultrahigh Activity and Super-Long-Term Cycle Stability as Advanced Water Oxidation Catalysts. Crystal Growth and Design, 2015, 15, 4475-4483.	3.0	51
156	Light-controlling, flexible and transparent ethanol gas sensor based on ZnO nanoparticles for wearable devices. Scientific Reports, 2015, 5, 11070.	3.3	157
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