

Guowei Yang

List of Publications by Year in descending order

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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. | 1.9 | 5 |
| 2 | Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. Nano Research, 2022, 15, 1709-1714. | 5.8 | 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. | 3.5 | 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. | 6.6 | 26 |
| 5 | 2D Layered Material Alloys: Synthesis and Application in Electronic and Optoelectronic Devices. Advanced Science, 2022, 9, e2103036. | 5.6 | 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. | 2.0 | 2 |
| 7 | Electronic structure regulation of cobalt oxide clusters for promoting photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 1899-1908. | 5.2 | 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, . | 3.6 | 16 |
| 9 | Superior peroxidase mimetic activity induced by topological surface states of Weyl semimetal WTe ₂ . Nano Today, 2022, 43, 101421. | 6.2 | 12 |
| 10 | A perspective on optimizing photoelectric conversion process in 2D transition-metal dichalcogenides and related heterostructures. Applied Physics Letters, 2022, 120, . | 1.5 | 9 |
| 11 | Nanoscale Self-Wetting Driven Monatomization of Ag Nanoparticle for Excellent Photocatalytic Hydrogen Evolution. Small, 2022, 18, e2107840. | 5.2 | 12 |
| 12 | Atomically Dispersed Cu Nanozyme with Intensive Ascorbate Peroxidase Mimic Activity Capable of Alleviating ROS-Mediated Oxidation Damage. Advanced Science, 2022, 9, e2103977. | 5.6 | 38 |
| 13 | Suspended Palladium/Polymer Bilayer for High-Contrast and Fast Hydrogen Sensors. ACS Sensors, 2022, 7, 116-122. | 4.0 | 9 |
| 14 | Promoting the Performance of 2D Material Photodetectors by Dielectric Engineering. Small Methods, 2022, 6, e2101046. | 4.6 | 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. | 2.8 | 9 |
| 16 | Van der Waals heterostructures based on 2D layered materials: Fabrication, characterization, and application in photodetection. Journal of Applied Physics, 2022, 131, . | 1.1 | 11 |
| 17 | A flexibly switchable TaIrTe ₄ -WSe ₂ van der Waals heterojunction photodetector with linear-polarization-dependent photosensitivity. Applied Physics Letters, 2022, 120, . | 1.5 | 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. | 7.3 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Optically controlled coalescence and splitting of femtoliter/picoliter droplets for microreactors. RSC Advances, 2022, 12, 18311-18320. | 1.7 | 3 |
| 20 | Promoting photocatalytic hydrogen evolution by introducing hot islands: SnSe nanoparticles on ZnIn ₂ S ₄ monolayer. Chemical Engineering Journal, 2021, 404, 126477. | 6.6 | 44 |
| 21 | Ternary Ta ₂ PdS ₆ Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. Advanced Materials, 2021, 33, e2005607. | 11.1 | 44 |
| 22 | A hybrid gold-carbyne nanocrystals platform for light-induced crossover of redox enzyme-like activities. Chemical Engineering Journal, 2021, 408, 127244. | 6.6 | 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. | 1.2 | 12 |
| 24 | Ti ₃ C ₂ T _x MXene for electrode materials of supercapacitors. Journal of Materials Chemistry A, 2021, 9, 11501-11529. | 5.2 | 181 |
| 25 | Paramagnetism of carbyne nanocrystals. Materials Today Communications, 2021, 26, 102152. | 0.9 | 1 |
| 26 | Single Polylactic Acid Nanowire for Highly Sensitive and Multifunctional Optical Biosensing. ACS Applied Materials & Interfaces, 2021, 13, 27983-27990. | 4.0 | 9 |
| 27 | A New Wide Bandgap Semiconductor: Carbyne Nanocrystals. Advanced Functional Materials, 2021, 31, 2104254. | 7.8 | 6 |
| 28 | Microsphere-assisted manipulation of a single Ag nanowire. Nanophotonics, 2021, 10, 2729-2736. | 2.9 | 1 |
| 29 | PentaPdPSe: A New 2D Pentagonal Material with Highly In-Plane Optical, Electronic, and Optoelectronic Anisotropy. Advanced Materials, 2021, 33, e2102541. | 11.1 | 66 |
| 30 | Multielement 2D layered material photodetectors. Nanotechnology, 2021, 32, 392001. | 1.3 | 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. | 1.9 | 6 |
| 32 | Ratiometric fluorescent sensor based on 2D MOF nanosheets modified by DNA for sensitive detection of Hg ²⁺ . Nanotechnology, 2021, 32, 505501. | 1.3 | 8 |
| 33 | Mie resonant scattering-based refractive index sensor using a quantum dots-doped polylactic acid nanowire. Applied Physics Letters, 2021, 119, . | 1.5 | 3 |
| 34 | A Universal and Facile Method of Tailoring the Thickness of Mo(S ⁺ ,Se ¹⁺) ₂ , Contributing to Highly Efficient Flexible Cu ₂ ZnSn(S,Se) ₄ Solar Cells. Solar Rrl, 2021, 5, 2100598. | 3.1 | 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. | 3.1 | 30 |
| 36 | Individual Si Nanospheres Wrapped in a Suspended Monolayer WS ₂ for Electromechanically Controlled Mie-Type Nanopixels. Advanced Optical Materials, 2021, 9, 2001954. | 3.6 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Research Progress on the Application of Lanthanide-Ion-Doped Phosphor Materials in Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1035-1060. | 3.2 | 33 |
| 38 | 9.63% efficient flexible Cu ₂ ZnSn(S,Se) ₄ solar cells fabricated <i>via</i> scalable doctor-blading under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25062-25072. | 5.2 | 15 |
| 39 | Carbyne Nanocrystal: One-Dimensional van der Waals Crystal. <i>ACS Nano</i> , 2021, 15, 16769-16776. | 7.3 | 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. <i>Particle and Particle Systems Characterization</i> , 2021, 38, . | 1.2 | 7 |
| 41 | Lightâ€Matter Interactions between Germanium Nanocavities and Quantum Dots at Visible Wavelengths. <i>Journal of Physical Chemistry C</i> , 2021, 125, 812-818. | 1.5 | 2 |
| 42 | Directâ€indirect bandgap transition in monolayer MoS ₂ induced by an individual Si nanoparticle. <i>Nanotechnology</i> , 2020, 31, 065204. | 1.3 | 9 |
| 43 | Enhanced carrier separation and increased electron density in 2D heavily N-doped ZnIn ₂ S ₄ for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020, 8, 207-217. | 5.2 | 131 |
| 44 | 2D material broadband photodetectors. <i>Nanoscale</i> , 2020, 12, 454-476. | 2.8 | 167 |
| 45 | Constructing Builtâ€in Electric Field in Ultrathin Graphitic Carbon Nitride Nanosheets by N and O Codoping for Enhanced Photocatalytic Hydrogen Evolution Activity. <i>Small</i> , 2020, 16, e1905700. | 5.2 | 79 |
| 46 | Surprising Efficiency Enhancement of Cu ₂ ZnSn(S,Se) ₄ Solar Cells with Abnormal Zn/Sn Ratios. <i>Solar Rrl</i> , 2020, 4, 2000325. | 3.1 | 25 |
| 47 | Europium (II)â€Doped Allâ€inorganic CsPbBr ₃ Perovskite Solar Cells with Carbon Electrodes. <i>Solar Rrl</i> , 2020, 4, 2000390. | 3.1 | 41 |
| 48 | All-dielectric materials and related nanophotonic applications. <i>Materials Science and Engineering Reports</i> , 2020, 141, 100563. | 14.8 | 28 |
| 49 | Self-integrated effects of 2D ZnIn ₂ S ₄ and amorphous Mo ₂ C nanoparticles composite for promoting solar hydrogen generation. <i>Nano Energy</i> , 2020, 76, 105031. | 8.2 | 106 |
| 50 | Non-layered 2D materials toward advanced photoelectric devices: progress and prospects. <i>Materials Horizons</i> , 2020, 7, 2185-2207. | 6.4 | 47 |
| 51 | Directional radiation and photothermal effect enhanced control of 2D excitonic emission based on germanium nanoparticles. <i>Nanotechnology</i> , 2020, 31, 385201. | 1.3 | 2 |
| 52 | Active tuning of Mie resonances to realize sensitive photothermal measurement of single nanoparticles. <i>Materials Horizons</i> , 2020, 7, 1542-1551. | 6.4 | 12 |
| 53 | Modified Ti ₃ C ₂ nanosheets as peroxidase mimetics for use in colorimetric detection and immunoassays. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2650-2659. | 2.9 | 35 |
| 54 | A fluorescent and colorimetric probe of carbyne nanocrystals coated Au nanoparticles for selective and sensitive detection of ferrous ions. <i>Carbon</i> , 2020, 167, 196-201. | 5.4 | 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. | 1.3 | 1 |
| 56 | 2D group 6 transition metal dichalcogenides toward wearable electronics and optoelectronics. Journal of Applied Physics, 2020, 127, . | 1.1 | 19 |
| 57 | Millimeters long super flexible Mn ₅ Si ₃ @SiO ₂ electrical nanocables applicable in harsh environments. Nature Communications, 2020, 11, 647. | 5.8 | 18 |
| 58 | Visible-light-driven room-temperature gas sensor based on carbyne nanocrystals. Sensors and Actuators B: Chemical, 2020, 316, 128200. | 4.0 | 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. | 2.7 | 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. | 4.0 | 18 |
| 61 | Photothermal conversion assisted photocatalytic hydrogen evolution from amorphous carbon nitrogen nanosheets with nitrogen vacancies. Physical Chemistry Chemical Physics, 2020, 22, 4453-4463. | 1.3 | 21 |
| 62 | Second harmonic generation in 2D layered materials. 2D Materials, 2020, 7, 042002. | 2.0 | 62 |
| 63 | Trapping and filtering of light by single Si nanospheres in a GaAs nanocavity. Nanoscale, 2019, 11, 16299-16307. | 2.8 | 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. | 2.1 | 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. | 1.5 | 4 |
| 66 | CdS Nanorod-Amorphous Molybdenum Oxide Nanocomposite for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2019, 2, 6783-6792. | 2.4 | 24 |
| 67 | Oxygen Vacancy-Engineered PEGylated MoO ₃ Nanoparticles with Superior Sulfite Oxidase Mimetic Activity for Vitamin B1 Detection. Small, 2019, 15, e1903153. | 5.2 | 41 |
| 68 | Scalable and green production of porous graphene nanosheets for flexible supercapacitors. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 1.1 | 7 |
| 69 | Amorphous Fe ₂ O ₃ for photocatalytic hydrogen evolution. Catalysis Science and Technology, 2019, 9, 5582-5592. | 2.1 | 40 |
| 70 | Single silicon nanostripe gated suspended monolayer and bilayer WS ₂ to realize abnormal electro-optical modulation. Materials Horizons, 2019, 6, 334-342. | 6.4 | 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. | 3.6 | 26 |
| 72 | Active Pore-Edge Engineering of Single-Layer Niobium Diselenide Porous Nanosheets Electrode for Hydrogen Evolution. Nanomaterials, 2019, 9, 751. | 1.9 | 11 |

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|----|--|------|-----------|
| 73 | Recent progress in inkjet-printed solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13873-13902. | 5.2 | 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. | 2.6 | 29 |
| 75 | Directional Fano Resonance in an Individual GaAs Nanospheroid. <i>Small</i> , 2019, 15, e1900546. | 5.2 | 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. | 5.6 | 40 |
| 77 | Dynamic radiative tailoring based on mid-refractive dielectric nanoantennas. <i>Nanoscale Horizons</i> , 2019, 4, 712-719. | 4.1 | 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. | 10.8 | 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. | 1.3 | 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. | 4.1 | 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. | 5.0 | 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. | 0.8 | 14 |
| 83 | Photoluminescence manipulation of WS ₂ flakes by an individual Si nanoparticle. <i>Materials Horizons</i> , 2019, 6, 97-106. | 6.4 | 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. | 4.0 | 65 |
| 85 | Flexible and High-Performance All-2D Photodetector for Wearable Devices. <i>Small</i> , 2018, 14, e1704524. | 5.2 | 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. | 5.2 | 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. | 3.6 | 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. | 10.8 | 41 |
| 89 | Layered tin monoselenide as advanced photothermal conversion materials for efficient solar energy-driven water evaporation. <i>Nanoscale</i> , 2018, 10, 2876-2886. | 2.8 | 94 |
| 90 | Nanozymatic Antioxidant System Based on MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12453-12462. | 4.0 | 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. | 2.9 | 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. | 2.7 | 25 |
| 93 | Two-dimensional amorphous NiO as a plasmonic photocatalyst for solar H ₂ evolution. Nature Communications, 2018, 9, 4036. | 5.8 | 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. | 4.0 | 39 |
| 95 | Facile and scalable production of amorphous nickel borate for high performance hybrid supercapacitors. Journal of Materials Chemistry A, 2018, 6, 19689-19695. | 5.2 | 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. | 4.0 | 83 |
| 97 | Inorganic fullerene-like molybdenum selenide with good biocompatibility synthesized by laser ablation in liquids. Nanotechnology, 2018, 29, 295604. | 1.3 | 13 |
| 98 | Tin dioxide quantum dots coupled with graphene for high-performance bulk-silicon Schottky photodetector. Materials Horizons, 2018, 5, 727-737. | 6.4 | 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. | 3.6 | 1 |
| 100 | The optical duality of tellurium nanoparticles for broadband solar energy harvesting and efficient photothermal conversion. Science Advances, 2018, 4, eaas9894. | 4.7 | 159 |
| 101 | Molecular Luminescence of White Carbon. Small, 2017, 13, 1603495. | 5.2 | 15 |
| 102 | Dual-functional photocatalysis for hydrogen evolution from industrial wastewaters. Physical Chemistry Chemical Physics, 2017, 19, 8356-8362. | 1.3 | 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. | 3.6 | 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. | 7.7 | 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. | 4.0 | 57 |
| 106 | Modifying photocatalysts for solar hydrogen evolution based on the electron behavior. Journal of Materials Chemistry A, 2017, 5, 5235-5259. | 5.2 | 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. | 4.0 | 74 |
| 108 | Plasmon-Induced Energy Transfer and Photoluminescence Manipulation in MoS ₂ with a Different Number of Layers. ACS Photonics, 2017, 4, 1092-1100. | 3.2 | 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. | 2.7 | 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. | 1.1 | 17 |
| 111 | Manipulating the hydrogen evolution pathway on composition-tunable CuNi nanoalloys. <i>Journal of Materials Chemistry A</i> , 2017, 5, 773-781. | 5.2 | 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. | 2.8 | 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. | 2.8 | 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. | 2.8 | 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. | 7.8 | 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. | 2.8 | 97 |
| 117 | A flexible, transparent and high-performance gas sensor based on layer-materials for wearable technology. <i>Nanotechnology</i> , 2017, 28, 415501. | 1.3 | 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. | 4.0 | 95 |
| 119 | Directional Scattering in a Germanium Nanosphere in the Visible Light Region. <i>Advanced Optical Materials</i> , 2017, 5, 1700761. | 3.6 | 37 |
| 120 | Electrically Controlled Scattering in a Hybrid Dielectric-Plasmonic Nanoantenna. <i>Nano Letters</i> , 2017, 17, 4793-4800. | 4.5 | 19 |
| 121 | Nanodiamond-Embedded p-Type Copper(I) Oxide Nanocrystals for Broad-Spectrum Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016, 6, 1501865. | 10.2 | 81 |
| 122 | A Floating Sheet for Efficient Photocatalytic Water Splitting. <i>Advanced Energy Materials</i> , 2016, 6, 1600510. | 10.2 | 74 |
| 123 | Amorphous transitional metal borides as substitutes for Pt cocatalysts for photocatalytic water splitting. <i>Nano Energy</i> , 2016, 27, 103-113. | 8.2 | 142 |
| 124 | Enhancing local luminescence in a hollow ZnO microcolumn by antiresonant reflecting. <i>Nanoscale</i> , 2016, 8, 9226-9233. | 2.8 | 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. | 10.2 | 0 |
| 126 | Promoting the Performance of Layered-Material Photodetectors by Alloy Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12915-12924. | 4.0 | 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. | 1.3 | 254 |
| 128 | Giant nonlinear optical responses of carbyne. Journal of Materials Chemistry C, 2016, 4, 4692-4698. | 2.7 | 36 |
| 129 | Self-assembling solid-state hydrogen source for drylands photocatalytic hydrogen production. Journal of Materials Chemistry A, 2016, 4, 15920-15928. | 5.2 | 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. | 2.7 | 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. | 4.0 | 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. | 4.0 | 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. | 4.0 | 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. | 2.7 | 135 |
| 135 | Plasmon resonances in semiconductor materials for detecting photocatalysis at the single-particle level. Nanoscale, 2016, 8, 15001-15007. | 2.8 | 18 |
| 136 | Cubic boron nitride with an intrinsic peroxidase-like activity. RSC Advances, 2016, 6, 70124-70132. | 1.7 | 23 |
| 137 | Second harmonic generation from an individual amorphous selenium nanosphere. Nanotechnology, 2016, 27, 425206. | 1.3 | 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. | 2.7 | 19 |
| 139 | A flexible, transparent and super-long-life supercapacitor based on ultrafine Co ₃ O ₄ nanocrystal electrodes. Nanoscale, 2016, 8, 4227-4235. | 2.8 | 205 |
| 140 | Reduced TiO ₂ -Graphene Oxide Heterostructure As Broad Spectrum-Driven Efficient Water-Splitting Photocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 8536-8545. | 4.0 | 140 |
| 141 | Plasmonic near-touching titanium oxide nanoparticles to realize solar energy harvesting and effective local heating. Nanoscale, 2016, 8, 8826-8838. | 2.8 | 69 |
| 142 | New type high-index dielectric nanosensors based on the scattering intensity shift. Nanoscale, 2016, 8, 5996-6007. | 2.8 | 50 |
| 143 | Amorphous mixed-metal hydroxide nanostructures for advanced water oxidation catalysts. Nanoscale, 2016, 8, 5015-5023. | 2.8 | 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. | 1.3 | 17 |

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|-----|--|-----|-----------|
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