

Zhigao Hu

List of Publications by Year in descending order

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192
papers

3,861
citations

136950

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48
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193
all docs

193
docs citations

193
times ranked

5117
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | WS2-decorated ZnO nanorods and enhanced ultraviolet emission. <i>Materials Letters</i> , 2022, 306, 130880. | 2.6 | 6 |
| 2 | A novel composite of SnO nanoparticles and SiO ₂ @N-doped carbon nanofibers with durable lifespan for diffusion-controlled lithium storage. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162703. | 5.5 | 10 |
| 3 | Embedded Double One-Dimensional Composites of WO ₃ @N-Doped Carbon Nanofibers for Superior and Stabilized Lithium Storage. <i>ChemElectroChem</i> , 2022, 9, . | 3.4 | 2 |
| 4 | Designing Monoclinic Heterophase Coexistence for the Enhanced Piezoelectric Performance in Ternary Lead-Based Relaxor Ferroelectrics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10535-10545. | 8.0 | 2 |
| 5 | Applications of Nickel-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, . | 5.8 | 17 |
| 6 | Phase change behavior improvement of Sb ₂ Te ₃ films by Si doping: Raman scattering evidence at elevated temperatures. <i>AIP Advances</i> , 2022, 12, . | 1.3 | 2 |
| 7 | High Quality <i>p</i> -Type Mg-Doped $\text{In}_2\text{Ga}_2\text{O}_3$ Films for Solar-Blind Photodetectors. <i>IEEE Electron Device Letters</i> , 2022, 43, 580-583. | 3.9 | 13 |
| 8 | Tunable Multi-Bit Nonvolatile Memory Based on Ferroelectric Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, . | 5.1 | 7 |
| 9 | Ultrabroadband Tellurium Photoelectric Detector from Visible to Millimeter Wave. <i>Advanced Science</i> , 2022, 9, e2103873. | 11.2 | 25 |
| 10 | 2D Transition Metal Dichalcogenide with Increased Entropy for Piezoelectric Electronics. <i>Advanced Materials</i> , 2022, 34, e2201630. | 21.0 | 15 |
| 11 | Simultaneously achieving large energy density and high efficiency in NaNbO ₃ (Sr,Bi)TiO ₃ Bi(Mg,Zr)O ₃ relaxor ferroelectric ceramics for dielectric capacitor applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13907-13916. | 10.3 | 23 |
| 12 | Significantly enhanced lithium storage by in situ grown CoS ₂ @MoS ₂ core-shell nanorods anchored on carbon cloth. <i>Chemical Engineering Journal</i> , 2021, 420, 127714. | 12.7 | 33 |
| 13 | Influence of CsPbBr ₃ /TiO ₂ interfaces deposited with magnetron sputtering and spin-coating methods on the open voltage deficit and efficiency of all-inorganic CsPbBr ₃ planar solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 860, 157900. | 5.5 | 9 |
| 14 | Flux periodic oscillations and phase-coherent transport in GeTe nanowire-based devices. <i>Nature Communications</i> , 2021, 12, 754. | 12.8 | 6 |
| 15 | Au-Decorated ZnO Nanorod Powder and Its Application in Photodegradation of Organic Pollutants in the Visible Region. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000737. | 1.8 | 6 |
| 16 | Asymmetric Au Electrodes-Induced Self-Powered Organic-Inorganic Perovskite Photodetectors. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 1149-1154. | 3.0 | 8 |
| 17 | Blackbody-sensitive room-temperature infrared photodetectors based on low-dimensional tellurium grown by chemical vapor deposition. <i>Science Advances</i> , 2021, 7, . | 10.3 | 121 |
| 18 | CuO: Synthesis in a Highly Excited Oxygen-Copper Plasma and Decoration of ZnO Nanorods for Enhanced Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9119-9128. | 3.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Passivated Emitter and Rear Cell Silicon Solar Cells with a Front Polysilicon Passivating Contacted Selective Emitter. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100057. | 2.4 | 4 |
| 20 | Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021, 4, 357-363. | 26.0 | 292 |
| 21 | Carrier-capture-assisted optoelectronics based on van der Waals materials to imitate medicine-acting metaplasticity. <i>Npj 2D Materials and Applications</i> , 2021, 5, . | 7.9 | 7 |
| 22 | ZnS Covering of ZnO Nanorods for Enhancing UV Emission from ZnO. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13732-13740. | 3.1 | 9 |
| 23 | <i>In situ</i> Raman scattering studies of pressure-temperature phase diagrams in antiferroelectric CaSnO_3 -modified NaNbO_3 ceramics. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3 | 6 |
| 24 | Flexible Organic Thin-Film Transistors With High Mechanical Stability on Polyimide Substrate by Chemically Plated Silver Electrodes. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 5120-5126. | 3.0 | 7 |
| 25 | Flexo-photoelectronic effect in n-type/p-type two-dimensional semiconductors and a deriving light-stimulated artificial synapse. <i>Materials Horizons</i> , 2021, 8, 1985-1997. | 12.2 | 16 |
| 26 | Optically Modulated HfS_2 -Based Synapses for Artificial Vision Systems. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50132-50140. | 8.0 | 17 |
| 27 | High Conductance Margin for Efficient Neuromorphic Computing Enabled by Stacking Nonvolatile van der Waals Transistors. <i>Physical Review Applied</i> , 2021, 16, . | 3.8 | 8 |
| 28 | Phase diagram with an antiferroelectric/ferroelectric phase boundary in AgNbO_3 energy-storage ceramics by lattice dynamics and electronic transitions. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 9 |
| 29 | Strain and electric field tunable electronic and optical properties in antimonene/ C_3N van der Waals heterostructure. <i>Solid State Sciences</i> , 2021, 122, 106771. | 3.2 | 9 |
| 30 | Thermal Conductivity of Large-Area Polycrystalline MoSe_2 Films Grown by Chemical Vapor Deposition. <i>ACS Omega</i> , 2021, 6, 30526-30533. | 3.5 | 1 |
| 31 | Structural, Electronic Band Transition and Optoelectronic Properties of p-Type Transparent Conductive CuCrNiO_2 Semiconductor Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26139-26149. | 3.1 | 3 |
| 32 | Feasible Way to Achieve Multifunctional $(\text{K}, \text{Na})\text{NbO}_3$ -Based Ceramics: Controlling Long-Range Ferroelectric Ordering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60227-60240. | 8.0 | 9 |
| 33 | Enhancement effects of interlayer orbital hybridization in Janus MoS_2 and tellurene heterostructures for photovoltaic applications. <i>Physical Review Materials</i> , 2021, 5, . | 2.4 | 9 |
| 34 | Two-dimensional mesoporous sensing materials. <i>Chinese Chemical Letters</i> , 2020, 31, 521-524. | 9.0 | 15 |
| 35 | Controllable fabrication of Bi_2O_3 nanoparticles by atomic layer deposition on TiO_2 films and application in photodegradation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110218. | 6.2 | 11 |
| 36 | Ferroelectric and dipole control of band alignment in the two dimensional $\text{InTe/In}_2\text{Se}_3$ heterostructure. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 055703. | 1.8 | 19 |

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|----|---|------|-----------|
| 37 | Robust three-dimensional porous rGO aerogel anchored with ultra-fine Fe_2O_3 nanoparticles exhibit dominated pseudocapacitance behavior for superior lithium storage. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152627. | 5.5 | 25 |
| 38 | Effects of composition and temperature on the exciton emission behaviors of MoS_2 nanoribbons. <i>Journal of Applied Physics</i> , 2020, 31, 155703. | 2.6 | 7 |
| 39 | A type-II GaSe/GeS heterobilayer with strain enhanced photovoltaic properties and external electric field effects. <i>Journal of Materials Chemistry C</i> , 2020, 8, 89-97. | 5.5 | 42 |
| 40 | A novel Sn particles coated composite of SnO ₂ /ZnO and N-doped carbon nanofibers as high-capacity and cycle-stable anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153036. | 5.5 | 34 |
| 41 | Air-stable Low-Symmetry Narrow-Bandgap 2D Sulfide Niobium for Polarization Photodetection. <i>Advanced Materials</i> , 2020, 32, e2005037. | 21.0 | 68 |
| 42 | Phase transition of Bi ₅ Ti ₃ FeO ₁₅ ceramics discovered by Raman spectroscopy and <i>in situ</i> synchrotron XRD under stress field. <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 6 |
| 43 | New Pressure Stabilization Structure in Two-Dimensional PtSe ₂ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7342-7349. | 4.6 | 15 |
| 44 | Ferroelectric-Modulated MoS ₂ Field-Effect Transistors as Multilevel Nonvolatile Memory. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44902-44911. | 8.0 | 13 |
| 45 | Temperature-dependent phonon mode and interband electronic transition evolutions of $\mu\text{-InSe}$ films derived by pulsed laser deposition. <i>Applied Physics Letters</i> , 2020, 117, 102101. | 3.3 | 2 |
| 46 | Phase transitions and phonon thermodynamics in giant piezoelectric Mn-doped $\text{K}_x\text{Na}_{1-x}\text{Fe}_2\text{S}_4$ crystals studied by Raman spectroscopy. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 23 |
| 47 | Lattice vibration characteristics in layered InSe films and the electronic behavior of field-effect transistors. <i>Nanotechnology</i> , 2020, 31, 335702. | 2.6 | 3 |
| 48 | P _N conversion of charge carrier types and high photoresponsive performance of composition modulated ternary alloy $\text{W}(\text{S}_x\text{Se}_{1-x})_2$ field-effect transistors. <i>Nanoscale</i> , 2020, 12, 15304-15317. | 5.6 | 12 |
| 49 | Efficient carbon-based planar CsPbBr ₃ perovskite solar cells with Li-doped amorphous Nb ₂ O ₅ layer. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155984. | 5.5 | 21 |
| 50 | Mixed-Dimensional Van der Waals Heterostructure Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18674-18682. | 8.0 | 26 |
| 51 | Enhanced carrier separation in ferroelectric In ₂ Se ₃ /MoS ₂ van der Waals heterostructure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11160-11167. | 5.5 | 44 |
| 52 | Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic GdFeO_3 : Evidence from Raman scattering. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 16 |
| 53 | Proximity-Induced Superconductivity in Nb/Sb ₂ Te ₃ Nanoribbon/Nb Junctions. <i>Annalen Der Physik</i> , 2020, 532, 2000273. | 2.4 | 5 |
| 54 | High Responsivity and External Quantum Efficiency Photodetectors Based on Solution-Processed Ni-Doped CuO Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11797-11805. | 8.0 | 51 |

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|----|--|------|-----------|
| 55 | Strong charge-density-wave order of large-area 2D metallic VSe ₂ nanosheets discovered by temperature-dependent Raman spectra. <i>Applied Physics Letters</i> , 2020, 116, 033102. | 3.3 | 11 |
| 56 | Enhanced photovoltaic response of lead-free ferroelectric solar cells based on (K,Bi)(Nb,Yb)O ₃ films. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3691-3701. | 2.8 | 17 |
| 57 | Large Enhancement and Its Mechanism of Ultraviolet Emission from ZnO Nanorod Arrays at Room and Low Temperatures by Covering with Ti Coatings. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4827-4834. | 3.1 | 6 |
| 58 | Transition-Metal Substitution-Induced Lattice Strain and Electrical Polarity Reversal in Monolayer WS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18650-18659. | 8.0 | 20 |
| 59 | Sandwiched CdS/Au/ZnO Nanorods with Enhanced Ultraviolet and Visible Photochemical and Photoelectrochemical Properties via Semiconductor and Metal Cosensitizing. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10941-10950. | 3.1 | 13 |
| 60 | PLD-derived Ge ₂ Sb ₂ Te ₅ phase-change films with extreme bending stability for flexible device applications. <i>Applied Physics Letters</i> , 2020, 116, . | 3.3 | 7 |
| 61 | Superior and Reversible Lithium Storage of SnO ₂ /Graphene Composites by Silicon Doping and Carbon Sealing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20824-20837. | 8.0 | 33 |
| 62 | Raman scattering measurements of phonon anharmonicity in the delafossite CuGa _{1-x} Cr _x O ₂ (0 ≤ x ≤ 1). <i>Physical Review B</i> , 2020, 102, 080401. | 2.5 | 6 |
| 63 | Constructing polymers towards ultrathin nanosheets with dual mesopores and intrinsic photoactivity. <i>Chemical Communications</i> , 2020, 56, 3191-3194. | 4.1 | 7 |
| 64 | Three-dimensional porous Co ₃ O ₄ @CoO composite combined with N-doped carbon for superior lithium storage. <i>Nanotechnology</i> , 2019, 30, 425404. | 2.6 | 13 |
| 65 | Exploring lattice symmetry evolution with discontinuous phase transition by Raman scattering criteria: The single-crystalline CoO@GO composite combined with N-doped carbon for superior lithium storage. <i>Nanotechnology</i> , 2019, 30, 425404. | 1.9 | 7843 |
| 66 | Self-assembly of a lateral quasi-Ohmic CuInSe ₂ /InSe isotype heterojunction for flexible devices by pulsed laser deposition. <i>Applied Physics Letters</i> , 2019, 115, . | 3.3 | 8 |
| 67 | Probing Effective Out-of-Plane Piezoelectricity in van der Waals Layered Materials Induced by Flexoelectricity. <i>Small</i> , 2019, 15, e1903106. | 10.0 | 29 |
| 68 | Large-scale Growth and Field-effect Transistors Electrical Engineering of Atomic-layer SnS ₂ . <i>Small</i> , 2019, 15, e1904116. | 10.0 | 58 |
| 69 | Exploration of a Ca _{1-x} (NaCe) _x 2Bi ₄ Ti _{3.98} (WNb) _{0.01} O ₁₅ ceramic intermediate phase by temperature-dependent spectroscopic ellipsometry and Raman scattering. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 061211. | 1.2 | 0 |
| 70 | 2D Materials: Probing Effective Out-of-Plane Piezoelectricity in van der Waals Layered Materials Induced by Flexoelectricity (<i>Small</i> 46/2019). <i>Small</i> , 2019, 15, 1970250. | 10.0 | 0 |
| 71 | Composition Dependence of Optical Properties and Band Structures in p-Type Ni-Doped CuO Films: Spectroscopic Experiment and First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27165-27171. | 3.1 | 15 |
| 72 | InN superconducting phase transition. <i>Scientific Reports</i> , 2019, 9, 12309. | 3.3 | 3 |

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|----|--|-----|-----------|
| 73 | Enhanced performance of carbon-based planar CsPbBr ₃ perovskite solar cells with room-temperature sputtered Nb ₂ O ₅ electron transport layer. <i>Solar Energy</i> , 2019, 191, 263-271. | 6.1 | 37 |
| 74 | Electric-Double-Layer Oriented Field-Screening Effect on High-Resolution Electromechanical Imaging in Conductive Solutions. <i>Physical Review Applied</i> , 2019, 12, . | 3.8 | 1 |
| 75 | Static characteristics of CMOS digital circuit based on transition metal dichalcogenide transistors. <i>AIP Advances</i> , 2019, 9, 085031. | 1.3 | 0 |
| 76 | Annealing effects on sulfur vacancies and electronic transport of MoS ₂ films grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2019, 115, . | 3.3 | 16 |
| 77 | Probing Nanoscale Electromechanical Behaviors of Relaxor Ferroelectrics in Highly Conductive Liquid Environments. <i>Physical Review Applied</i> , 2019, 11, . | 3.8 | 1 |
| 78 | Probing electromechanical behaviors by datacube piezoresponse force microscopy in ambient and aqueous environments. <i>Nanotechnology</i> , 2019, 30, 235701. | 2.6 | 9 |
| 79 | Efficient and Hole-Transporting-Free CsPbI ₂ Br Planar Heterojunction Perovskite Solar Cells through Rubidium Passivation. <i>ChemSusChem</i> , 2019, 12, 960-960. | 6.8 | 1 |
| 80 | Annealing time modulated the film microstructures and electrical properties of P-type CuO field effect transistors. <i>Applied Surface Science</i> , 2019, 481, 632-636. | 6.1 | 24 |
| 81 | Electronic bandgap manipulation of monolayer WS ₂ by vertically coupled insulated Mg(OH) ₂ layers. <i>Journal of Alloys and Compounds</i> , 2019, 785, 156-162. | 5.5 | 3 |
| 82 | Decoding Phases of Matter by Machine-Learning Raman Spectroscopy. <i>Physical Review Applied</i> , 2019, 12, . | 3.8 | 17 |
| 83 | Efficient and Hole-Transporting-Free CsPbI ₂ Br Planar Heterojunction Perovskite Solar Cells through Rubidium Passivation. <i>ChemSusChem</i> , 2019, 12, 983-989. | 6.8 | 79 |
| 84 | Pseudocapacitive Li-ion storage boosts high-capacity and long-life performance in multi-layer CoFe ₂ O ₄ /rGO/C composite. <i>Nanotechnology</i> , 2019, 30, 045401. | 2.6 | 3 |
| 85 | Preparation and characterization of narrow bandgap ferroelectric (K,Ba)(Ni,Nb)O ₃ films for mesoporous all-oxide solar cells. <i>New Journal of Physics</i> , 2019, 21, 013011. | 2.9 | 5 |
| 86 | Precursor solution temperature dependence of the optical constants, band gap and Urbach tail in organic-inorganic hybrid halide perovskite films. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 045103. | 2.8 | 8 |
| 87 | Electrical characteristics and carrier injection mechanisms of atomic layer deposition synthesized n-SnO ₂ /p-Si heterojunction. <i>Materials Research Express</i> , 2019, 6, 035909. | 1.6 | 8 |
| 88 | Free-anchored Nb ₂ O ₅ @graphene networks for ultrafast-stable lithium storage. <i>Nanotechnology</i> , 2018, 29, 185401. | 2.6 | 17 |
| 89 | Cover Picture: Plasma Process. <i>Polym. 11</i> •2018. <i>Plasma Processes and Polymers</i> , 2018, 15, 1870003. | 3.0 | 0 |
| 90 | Carbonized polydopamine wrapping layered KNb ₃ O ₈ nanoflakes based on alkaline hydrothermal for enhanced and discrepant lithium storage. <i>Journal of Alloys and Compounds</i> , 2018, 749, 803-810. | 5.5 | 6 |

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|-----|---|------|-----------|
| 91 | Interface Modification for Planar Perovskite Solar Cell Using Room-Temperature Deposited Nb ₂ O ₅ as Electron Transportation Layer. ACS Applied Energy Materials, 2018, 1, 2000-2006. | 5.1 | 41 |
| 92 | High-capacity and long-life lithium storage boosted by pseudocapacitance in three-dimensional MnO ₂ @Cu ⁺ CNT/graphene anodes. Nanoscale, 2018, 10, 2944-2954. | 5.6 | 28 |
| 93 | Lattice dynamics, phase transition, and tunable fundamental band gap of photovoltaic (K,Ba)(Ni,Nb)O ₃ ceramics from spectral measurements and first-principles calculations. Physical Review B, 2018, 97, . | 3.2 | 8 |
| 94 | Blue luminescent amorphous carbon nanoparticles synthesized by microplasma processing of folic acid. Plasma Processes and Polymers, 2018, 15, 1700088. | 3.0 | 16 |
| 95 | <i>In situ</i> carbon encapsulation of vertical MoS ₂ arrays with SnO ₂ for durable high rate lithium storage: dominant pseudocapacitive behavior. Nanoscale, 2018, 10, 741-751. | 5.6 | 41 |
| 96 | Interlayer coupling and the phase transition mechanism of stacked MoS ₂ /TaS ₂ heterostructures discovered using temperature dependent Raman and photoluminescence spectroscopy. RSC Advances, 2018, 8, 21968-21974. | 3.6 | 9 |
| 97 | Temperature Dependence of Phonon Modes, Optical Constants, and Optical Band Gap in Two-Dimensional ReS ₂ Films. Journal of Physical Chemistry C, 2018, 122, 29464-29469. | 3.1 | 15 |
| 98 | Difference analysis model for the mismatch effect and substrate-induced lattice deformation in atomically thin materials. Physical Review B, 2018, 98, . | 3.2 | 7 |
| 99 | Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. Advanced Energy Materials, 2018, 8, 1801972. | 19.5 | 22 |
| 100 | Phonon behaviors and dielectric functions in Bi _{0.5} Na _{0.5} TiO ₃ -based ceramics by Raman scattering and optical ellipsometry. Journal of the American Ceramic Society, 2018, 102, 2791. | 3.8 | 11 |
| 101 | <i>In situ</i> exploration of the thermodynamic evolution properties in the type II interface from the WSe ₂ @WS ₂ lateral heterojunction. Nanotechnology, 2018, 29, 435703. | 2.6 | 7 |
| 102 | Full three-dimensional morphology evolution of amorphous thin films for atomic layer deposition. AIP Advances, 2018, 8, . | 1.3 | 10 |
| 103 | Facile fabrication of 3D porous MnO@GS/CNT architecture as advanced anode materials for high-performance lithium-ion battery. Nanotechnology, 2018, 29, 315403. | 2.6 | 11 |
| 104 | Enhanced exciton emission behavior and tunable band gap of ternary W(S _x Se _{1-x}) ₂ monolayer: temperature dependent optical evidence and first-principles calculations. Nanoscale, 2018, 10, 11553-11563. | 5.6 | 12 |
| 105 | Controllable interlayer space effects of layered potassium triniobate nanoflakes on enhanced pH dependent adsorption-photocatalysis behaviors. Scientific Reports, 2018, 8, 6616. | 3.3 | 8 |
| 106 | Manipulating Behaviors from Heavy Tungsten Doping on Interband Electronic Transition and Orbital Structure Variation of Vanadium Dioxide Films. ACS Applied Materials & Interfaces, 2018, 10, 30548-30557. | 8.0 | 20 |
| 107 | Highly durable and cycle-stable lithium storage based on MnO nanoparticle-decorated 3D interconnected CNT/graphene architecture. Nanoscale, 2018, 10, 13140-13148. | 5.6 | 40 |
| 108 | 10.1063/1.5025008.1. , 2018, , . | | 0 |

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|-----|---|------|-----------|
| 109 | Direct Observation of Landau Level Resonance and Mass Generation in Dirac Semimetal Cd ₃ As ₂ Thin Films. Nano Letters, 2017, 17, 2211-2219. | 9.1 | 40 |
| 110 | Superior adsorption and photoinduced carrier transfer behaviors of dandelion-shaped Bi ₂ S ₃ @MoS ₂ : experiments and theory. Scientific Reports, 2017, 7, 42484. | 3.3 | 52 |
| 111 | Low-temperature sintering and electrical properties of Sr ₂ Nb ₂ O ₇ piezoceramics by CuO addition. Journal of the American Ceramic Society, 2017, 100, 2397-2401. | 3.8 | 16 |
| 112 | Localized states evolution and nitrides separation before crystallization in nitrogen incorporated GeTe: Evidence from ellipsometric spectra. Applied Physics Letters, 2017, 110, 161906. | 3.3 | 5 |
| 113 | <i>In Situ</i> Exploration of Thermal-Induced Domain Evolution with Phase Transition in LiNbO ₃ -Modified K _{0.5} Na _{0.5} NbO ₃ Single Crystal. Journal of Physical Chemistry C, 2017, 121, 14322-14329. | 3.1 | 9 |
| 114 | Tuning Coupling Behavior of Stacked Heterostructures Based on MoS ₂ , WS ₂ , and WSe ₂ . Scientific Reports, 2017, 7, 44712. | 3.3 | 56 |
| 115 | Electronic transitions of the transparent delafossite-type CuGa _{1-x} Cr _x O ₂ system: first-principles calculations and temperature-dependent spectral experiments. Journal of Materials Chemistry C, 2017, 5, 183-191. | 5.5 | 14 |
| 116 | Influence of composition on structure, morphology and dielectric properties of Bi _x Al _y O _z composite films synthesized by atomic layer deposition. AIP Advances, 2017, 7, 045120. | 1.3 | 0 |
| 117 | Copper ferrites@reduced graphene oxide anode materials for advanced lithium storage applications. Scientific Reports, 2017, 7, 8903. | 3.3 | 62 |
| 118 | Vapomechanically Responsive Motion of Microchannel-Programmed Actuators. Advanced Materials, 2017, 29, 1702231. | 21.0 | 138 |
| 119 | Evaluation of lattice dynamics, infrared optical properties and visible emissions of hexagonal GeO ₂ films prepared by liquid phase deposition. Journal of Materials Chemistry C, 2017, 5, 12792-12799. | 5.5 | 11 |
| 120 | Boosted adsorption-photocatalytic activities and potential lithium intercalation applications of layered potassium hexaniobate nano-family. RSC Advances, 2017, 7, 28105-28113. | 3.6 | 6 |
| 121 | Effects of deposition methods and processing techniques on band gap, interband electronic transitions, and optical absorption in perovskite CH ₃ NH ₃ PbI ₃ films. Applied Physics Letters, 2017, 111, . | 3.3 | 10 |
| 122 | The electro-optic mechanism and infrared switching dynamic of the hybrid multilayer VO ₂ /Al:ZnO heterojunctions. Scientific Reports, 2017, 7, 4425. | 3.3 | 20 |
| 123 | Structure evolution mechanism of $W_{1-x}O_{12}$. Physical Review B, 2017, 96, . | 3.2 | 12 |
| 124 | Coexistence of Ferroelectric Phases and Phonon Dynamics in Relaxor Ferroelectric Na _{0.5} Bi _{0.5} TiO ₃ Based Single Crystals. Journal of the American Ceramic Society, 2016, 99, 2408-2414. | 3.8 | 20 |
| 125 | Optical evidences for an intermediate phase in relaxor ferroelectric Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. AIP Advances, 2016, 6, 025106. | 1.3 | 1 |
| 126 | Enhanced Crystallization Behaviors of Silicon-Doped Sb ₂ Te Films: Optical Evidences. Scientific Reports, 2016, 6, 33639. | 3.3 | 17 |

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|-----|---|-----|-----------|
| 127 | Enhanced Photoelectrochemical Activity of ZnO-Coated TiO ₂ Nanotubes and Its Dependence on ZnO Coating Thickness. <i>Nanoscale Research Letters</i> , 2016, 11, 104. | 5.7 | 35 |
| 128 | A novel technique for probing phase transitions in ferroelectric functional materials: Condensed matter spectroscopy. <i>Science China Technological Sciences</i> , 2016, 59, 1537-1548. | 4.0 | 1 |
| 129 | Lattice Dynamics, Dielectric Constants, and Phase Diagram of Bismuth Layered Ferroelectric Bi ₃ Ti _{1-x} W _x NbO ₉ +f. <i>Ceramics. Journal of the American Ceramic Society</i> , 2016, 99, 3610-3615. | 3.8 | 9 |
| 130 | Spin-manipulated phonon dynamics during magnetic phase transitions in triangular lattice antiferromagnet CuCr _{1-x} Mg _x O ₂ semiconductor films. <i>RSC Advances</i> , 2016, 6, 27136-27142. | 3.6 | 8 |
| 131 | Relationship between negative thermal expansion and lattice dynamics in a tetragonal PbTiO ₃ –Bi(Mg _{1/2} Ti _{1/2})O ₃ perovskite single crystal. <i>RSC Advances</i> , 2016, 6, 3159-3164. | 3.6 | 13 |
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