

Ning Han

List of Publications by Year in descending order

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135
papers

5,206
citations

61984

43
h-index

110387

64
g-index

137
all docs

137
docs citations

137
times ranked

5828
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | MOF-derived hierarchical hollow ZnO nanocages with enhanced low-concentration VOCs gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 158-166. | 7.8 | 191 |
| 2 | Counterintuitive sensing mechanism of ZnO nanoparticle based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 230-238. | 7.8 | 147 |
| 3 | Ordered Arrays of Bead-Chain-like In ₂ O ₃ Nanorods and Their Enhanced Sensing Performance for Formaldehyde. <i>Chemistry of Materials</i> , 2010, 22, 3033-3042. | 6.7 | 140 |
| 4 | Improving humidity selectivity in formaldehyde gas sensing by a two-sensor array made of Ga-doped ZnO. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 228-235. | 7.8 | 135 |
| 5 | Photoluminescence investigation on the gas sensing property of ZnO nanorods prepared by plasma-enhanced CVD method. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 114-119. | 7.8 | 130 |
| 6 | Evaluating the doping effect of Fe, Ti and Sn on gas sensing property of ZnO. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 525-530. | 7.8 | 122 |
| 7 | Highly formaldehyde-sensitive, transition-metal doped ZnO nanorods prepared by plasma-enhanced chemical vapor deposition. <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 74-80. | 7.8 | 122 |
| 8 | Highly active and humidity resistive perovskite LaFeO ₃ based catalysts for efficient ozone decomposition. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 578-587. | 20.2 | 114 |
| 9 | Rational Design of Inverted Nanopencil Arrays for Cost-Effective, Broadband, and Omnidirectional Light Harvesting. <i>ACS Nano</i> , 2014, 8, 3752-3760. | 14.6 | 106 |
| 10 | Surfactant-assisted chemical vapour deposition of high-performance small-diameter GaSb nanowires. <i>Nature Communications</i> , 2014, 5, 5249. | 12.8 | 102 |
| 11 | Decoration of one-dimensional MnO ₂ with Co ₃ O ₄ nanoparticles: A heterogeneous interface for remarkably promoting catalytic oxidation activity. <i>Chemical Engineering Journal</i> , 2016, 306, 709-718. | 12.7 | 100 |
| 12 | CdO activated Sn-doped ZnO for highly sensitive, selective and stable formaldehyde sensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 324-329. | 7.8 | 98 |
| 13 | Synthesis and Characterizations of Ternary InGaAs Nanowires by a Two-Step Growth Method for High-Performance Electronic Devices. <i>ACS Nano</i> , 2012, 6, 3624-3630. | 14.6 | 86 |
| 14 | Sputtered SnO ₂ :NiO thin films on self-assembled Au nanoparticle arrays for MEMS compatible NO ₂ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 278, 28-38. | 7.8 | 79 |
| 15 | Controllable Growth of Lead-Free All-Inorganic Perovskite Nanowire Array with Fast and Stable Near-Infrared Photodetection. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17566-17573. | 3.1 | 78 |
| 16 | Developing controllable anisotropic wet etching to achieve silicon nanorods, nanopencils and nanocones for efficient photon trapping. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9942. | 10.3 | 77 |
| 17 | Highly sensitive and selective ethanol and acetone gas sensors based on modified ZnO nanomaterials. <i>Materials and Design</i> , 2017, 121, 69-76. | 7.0 | 71 |
| 18 | Approaching the Hole Mobility Limit of GaSb Nanowires. <i>ACS Nano</i> , 2015, 9, 9268-9275. | 14.6 | 70 |

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|----|--|------|-----------|
| 19 | Ultra-fast photodetectors based on high-mobility indium gallium antimonide nanowires. <i>Nature Communications</i> , 2019, 10, 1664. | 12.8 | 70 |
| 20 | Effective Ti Doping of γ - MnO_2 via Anion Route for Highly Active Catalytic Combustion of Benzene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10275-10282. | 3.1 | 69 |
| 21 | Crystal-Defect-Dependent Gas-Sensing Mechanism of the Single ZnO Nanowire Sensors. <i>ACS Sensors</i> , 2018, 3, 2385-2393. | 7.8 | 69 |
| 22 | Solution-Controlled Self-Assembly of ZnO Nanorods into Hollow Microspheres. <i>Crystal Growth and Design</i> , 2011, 11, 1520-1526. | 3.0 | 68 |
| 23 | Tunable Electronic Transport Properties of Metal-Cluster-Decorated III-V Nanowire Transistors. <i>Advanced Materials</i> , 2013, 25, 4445-4451. | 21.0 | 68 |
| 24 | Surface roughness induced electron mobility degradation in InAs nanowires. <i>Nanotechnology</i> , 2013, 24, 375202. | 2.6 | 62 |
| 25 | Heterostructured Ni/NiO Nanocatalysts for Ozone Decomposition. <i>ACS Applied Nano Materials</i> , 2020, 3, 597-607. | 5.0 | 62 |
| 26 | Controllable π - π Switching Behaviors of GaAs Nanowires via an Interface Effect. <i>ACS Nano</i> , 2012, 6, 4428-4433. | 14.6 | 61 |
| 27 | Ordered mesoporous WO_3/ZnO nanocomposites with isotype heterojunctions for sensitive detection of NO_2 . <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 68-75. | 7.8 | 60 |
| 28 | High-Performance GaAs Nanowire Solar Cells for Flexible and Transparent Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20454-20459. | 8.0 | 58 |
| 29 | MOF-derived hierarchical $\text{ZnO}/\text{ZnFe}_2\text{O}_4$ hollow cubes for enhanced acetone gas-sensing performance. <i>RSC Advances</i> , 2017, 7, 34609-34617. | 3.6 | 58 |
| 30 | Sr-Doped Cubic In_2O_3 /Rhombohedral In_2O_3 Homojunction Nanowires for Highly Sensitive and Selective Breath Ethanol Sensing: Experiment and DFT Simulation Studies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1270-1279. | 8.0 | 58 |
| 31 | Comparative Study of CeO_2 and Doped CeO_2 with Tailored Oxygen Vacancies for CO Oxidation. <i>ChemPhysChem</i> , 2011, 12, 2763-2770. | 2.1 | 56 |
| 32 | Porous Au@Pt nanoparticles with superior peroxidase-like activity for colorimetric detection of spike protein of SARS-CoV-2. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 113-121. | 9.4 | 56 |
| 33 | Abnormal n-p-n type conductivity transition of hollow $\text{ZnO}/\text{ZnFe}_2\text{O}_4$ nanostructures during gas sensing process: The role of $\text{ZnO}-\text{ZnFe}_2\text{O}_4$ hetero-interface. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 144-155. | 7.8 | 55 |
| 34 | Phosphorus-Doped MoS_2 Nanosheets Supported on Carbon Cloths as Efficient Hydrogen-Generation Electrocatalysts. <i>ChemCatChem</i> , 2018, 10, 1571-1577. | 3.7 | 55 |
| 35 | High-performance enhancement-mode thin-film transistors based on Mg-doped In_2O_3 nanofiber networks. <i>Nano Research</i> , 2018, 11, 1227-1237. | 10.4 | 55 |
| 36 | Manipulated Growth of GaAs Nanowires: Controllable Crystal Quality and Growth Orientations via a Supersaturation-Controlled Engineering Process. <i>Crystal Growth and Design</i> , 2012, 12, 6243-6249. | 3.0 | 54 |

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|----|---|------|-----------|
| 37 | Synthesis of Pd-loaded mesoporous SnO ₂ hollow spheres for highly sensitive and stable methane gas sensors. RSC Advances, 2018, 8, 24268-24275. | 3.6 | 53 |
| 38 | Facile synthesis and growth mechanism of Ni-catalyzed GaAs nanowires on non-crystalline substrates. Nanotechnology, 2011, 22, 285607. | 2.6 | 51 |
| 39 | Low-temperature efficient degradation of ethyl acetate catalyzed by lattice-doped CeO ₂ @CoOx nanocomposites. Catalysis Communications, 2016, 73, 123-127. | 3.3 | 51 |
| 40 | One-step electrospun SnO ₂ /MOx heterostructured nanomaterials for highly selective gas sensor array integration. Sensors and Actuators B: Chemical, 2019, 283, 793-801. | 7.8 | 51 |
| 41 | rGO modified nanoplate-assembled ZnO/CdO junction for detection of NO ₂ . Journal of Hazardous Materials, 2020, 394, 121832. | 12.4 | 51 |
| 42 | Facile solution synthesis of Cu ₂ O@Cu(OH) ₂ hierarchical nanostructures for effective catalytic ozone decomposition. CrystEngComm, 2018, 20, 3096-3104. | 2.6 | 50 |
| 43 | Fabrication of ZnO nanorod-assembled multishelled hollow spheres and enhanced performance in gas sensor. Journal of Materials Chemistry, 2011, 21, 14277. | 6.7 | 47 |
| 44 | In-situ synthesis of Cu ₂ O/reduced graphene oxide composite as effective catalyst for ozone decomposition. Catalysis Communications, 2018, 106, 25-29. | 3.3 | 46 |
| 45 | Core-shell Au@ZnO nanoparticles derived from Au@MOF and their sub-ppm level acetone gas-sensing performance. Powder Technology, 2016, 304, 241-247. | 4.2 | 43 |
| 46 | Aerosol assisted chemical vapour deposition of nanostructured ZnO thin films for NO ₂ and ethanol monitoring. Ceramics International, 2020, 46, 15152-15158. | 4.8 | 42 |
| 47 | Stoichiometric Effect on Electrical, Optical, and Structural Properties of Composition-Tunable In _x Ga _{1-x} As Nanowires. ACS Nano, 2012, 6, 9320-9325. | 14.6 | 41 |
| 48 | GaAs Nanowires: From Manipulation of Defect Formation to Controllable Electronic Transport Properties. ACS Nano, 2013, 7, 9138-9146. | 14.6 | 41 |
| 49 | Design and synthesis of porous non-noble metal oxides for catalytic removal of VOCs. Science China Chemistry, 2015, 58, 1359-1366. | 8.2 | 41 |
| 50 | rGO decorated W doped BiVO ₄ novel material for sensing detection of trimethylamine. Sensors and Actuators B: Chemical, 2019, 298, 126749. | 7.8 | 41 |
| 51 | Complementary Metal Oxide Semiconductor-Compatible, High-Mobility, Γ -Oriented GaSb Nanowires Enabled by Vapor-Solid Chemical Vapor Deposition. ACS Nano, 2017, 11, 4237-4246. | 14.6 | 38 |
| 52 | Novel p-n heterojunction of BiVO ₄ /Cu ₂ O decorated with rGO for low concentration of NO ₂ detection. Sensors and Actuators B: Chemical, 2020, 320, 128284. | 7.8 | 38 |
| 53 | Pure and Sn-, Ga- and Mn-doped ZnO gas sensors working at different temperatures for formaldehyde, humidity, NH ₃ , toluene and CO. Applied Physics A: Materials Science and Processing, 2011, 104, 627-633. | 2.3 | 36 |
| 54 | GaAs nanowire Schottky barrier photovoltaics utilizing Au-Ga alloy catalytic tips. Applied Physics Letters, 2012, 101, . | 3.3 | 36 |

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|----|--|------|-----------|
| 55 | Crystalline GaSb Nanowires Synthesized on Amorphous Substrates: From the Formation Mechanism to p-Channel Transistor Applications. ACS Applied Materials & Interfaces, 2013, 5, 10946-10952. | 8.0 | 36 |
| 56 | Modulating Electrical Performances of In ₂ O ₃ Nanofiber Channel Thin Film Transistors via Sr Doping. Advanced Electronic Materials, 2019, 5, 1800707. | 5.1 | 36 |
| 57 | rGO decorated CdS/CdO composite for detection of low concentration NO ₂ . Sensors and Actuators B: Chemical, 2019, 299, 126832. | 7.8 | 35 |
| 58 | High performance ozone decomposition spinel (Mn,Co)3O ₄ catalyst accelerating the rate-determining step. Applied Catalysis B: Environmental, 2022, 303, 120927. | 20.2 | 35 |
| 59 | Low temperature decomposition of ozone by facilely synthesized cuprous oxide catalyst. New Journal of Chemistry, 2017, 41, 4828-4834. | 2.8 | 34 |
| 60 | High-performance indium phosphide nanowires synthesized on amorphous substrates: from formation mechanism to optical and electrical transport measurements. Journal of Materials Chemistry, 2012, 22, 10704. | 6.7 | 33 |
| 61 | Modulating Electrical Properties of InAs Nanowires <i>via</i> Molecular Monolayers. ACS Nano, 2015, 9, 7545-7552. | 14.6 | 33 |
| 62 | Two-step vapor deposition of self-catalyzed large-size PbI ₂ nanobelts for high-performance photodetectors. Journal of Materials Chemistry C, 2018, 6, 5746-5753. | 5.5 | 33 |
| 63 | Cu ₂ O and rGO Hybridizing for Enhancement of Low-Concentration NO ₂ Sensing at Room Temperature. Industrial & Engineering Chemistry Research, 2018, 57, 10086-10094. | 3.7 | 33 |
| 64 | Carbon doping of InSb nanowires for high-performance p-channel field-effect-transistors. Nanoscale, 2013, 5, 9671. | 5.6 | 32 |
| 65 | III-V Nanowires: Synthesis, Property Manipulations, and Device Applications. Journal of Nanomaterials, 2014, 2014, 1-14. | 2.7 | 32 |
| 66 | Amplifying the Signal of Metal Oxide Gas Sensors for Low Concentration Gas Detection. IEEE Sensors Journal, 2017, 17, 2841-2847. | 4.7 | 32 |
| 67 | ZnO Nanofiber Thin-Film Transistors with Low-Operating Voltages. Advanced Electronic Materials, 2018, 4, 1700336. | 5.1 | 32 |
| 68 | One-dimensional nanostructured materials for solar energy harvesting. Nanomaterials and Energy, 2012, 1, 4-17. | 0.2 | 31 |
| 69 | Diameter dependence of electron mobility in InGaAs nanowires. Applied Physics Letters, 2013, 102, . | 3.3 | 31 |
| 70 | Nonpolar-Oriented Wurtzite InP Nanowires with Electron Mobility Approaching the Theoretical Limit. ACS Nano, 2018, 12, 10410-10418. | 14.6 | 30 |
| 71 | Noble Metal/Tin Dioxide Hierarchical Hollow Spheres for Low-Concentration Breath Methane Sensing. ACS Applied Nano Materials, 2018, 1, 6327-6336. | 5.0 | 30 |
| 72 | Observations on ozone treatment of excess sludge. Water Science and Technology, 2007, 56, 167-175. | 2.5 | 29 |

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|----|---|------|-----------|
| 73 | Microwave Irradiation: A Novel Method for Rapid Synthesis of D,L-Lactide. <i>Macromolecular Rapid Communications</i> , 2007, 28, 417-421. | 3.9 | 29 |
| 74 | Synthesis of novel BiVO ₄ /Cu ₂ O heterojunctions for improving BiVO ₄ towards NO ₂ sensing properties. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 37-44. | 9.4 | 29 |
| 75 | High acetone sensitive and reversible P- to N-type switching NO ₂ sensing properties of Pt@Ga-ZnO core-shell nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 114-123. | 7.8 | 27 |
| 76 | An Fe ₂ O ₃ /NiO hierarchical heterojunction for the sensitive detection of triethylamine. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1532-1539. | 6.0 | 26 |
| 77 | Magnet-assisted electrochemical immunosensor based on surface-clean Pd-Au nanosheets for sensitive detection of SARS-CoV-2 spike protein. <i>Electrochimica Acta</i> , 2022, 404, 139766. | 5.2 | 26 |
| 78 | Enhanced gas-sensing performance of metal@ZnO core-shell nanoparticles towards ppb-level benzene: the role of metal-ZnO hetero-interfaces. <i>New Journal of Chemistry</i> , 2019, 43, 2220-2230. | 2.8 | 24 |
| 79 | Defect engineering of ZnO for electron transfer in O ₃ catalytic decomposition. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119223. | 20.2 | 24 |
| 80 | Crystal phase and growth orientation dependence of GaAs nanowires on Ni _x Ga _y seeds via vapor-solid-solid mechanism. <i>Applied Physics Letters</i> , 2011, 99, 083114. | 3.3 | 23 |
| 81 | Sensitive Cross-Linked SnO ₂ :NiO Networks for MEMS Compatible Ethanol Gas Sensors. <i>Nanoscale Research Letters</i> , 2020, 15, 35. | 5.7 | 23 |
| 82 | Crystal Orientation Controlled Photovoltaic Properties of Multilayer GaAs Nanowire Arrays. <i>ACS Nano</i> , 2016, 10, 6283-6290. | 14.6 | 22 |
| 83 | A novel rGO-decorated ZnO/BiVO ₄ heterojunction for the enhancement of NO ₂ sensing properties. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1026-1033. | 6.0 | 21 |
| 84 | Facile Electrodeposition of Amorphous Nickel/Nickel Sulfide Composite Films for High-Efficiency Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 927-933. | 5.1 | 21 |
| 85 | Chemical vapor deposition preparation of nanostructured ZnO particles and their gas-sensing properties. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 1.9 | 20 |
| 86 | Facet-dependent gas sensing properties of Cu ₂ O crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600904. | 1.8 | 20 |
| 87 | Ag-Modified In ₂ O ₃ Nanoparticles for Highly Sensitive and Selective Ethanol Alarming. <i>Sensors</i> , 2017, 17, 2220. | 3.8 | 18 |
| 88 | Reduced Graphene Oxide-Coated Si Nanowires for Highly Sensitive and Selective Detection of Indoor Formaldehyde. <i>Nanoscale Research Letters</i> , 2019, 14, 97. | 5.7 | 18 |
| 89 | Controllable III-V nanowire growth via catalyst epitaxy. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4393-4399. | 5.5 | 17 |
| 90 | Modulating the Morphology and Electrical Properties of GaAs Nanowires via Catalyst Stabilization by Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5591-5597. | 8.0 | 16 |

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|-----|--|-----|-----------|
| 91 | A one-pot synthesis of a monolithic Cu ₂ O/Cu catalyst for efficient ozone decomposition. RSC Advances, 2020, 10, 40916-40922. | 3.6 | 16 |
| 92 | Facile synthesis of stoichiometric InOCl mesoporous material for high performance formaldehyde gas sensors. Sensors and Actuators B: Chemical, 2020, 319, 128078. | 7.8 | 16 |
| 93 | Heterojunctioned CuO/Cu ₂ O catalyst for highly efficient ozone removal. Journal of Environmental Sciences, 2023, 125, 340-348. | 6.1 | 16 |
| 94 | Electrophoretic deposition of metal oxide films aimed for gas sensors application: The role of anodic aluminum oxide (AAO)/Al composite structure. Sensors and Actuators B: Chemical, 2010, 144, 267-273. | 7.8 | 15 |
| 95 | Low-temperature growth of highly crystalline β -Ga ₂ O ₃ nanowires by solid-source chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 347. | 5.7 | 15 |
| 96 | Controllable Synthesis and Gas-Sensing Properties of Zinc Oxide Nanocrystals With Exposed Different Percentage of Facets. IEEE Sensors Journal, 2016, 16, 866-872. | 4.7 | 15 |
| 97 | Co-sputtered Pd/SnO ₂ :NiO heterostructured sensing films for MEMS-based ethanol sensors. Materials Letters, 2020, 273, 127924. | 2.6 | 15 |
| 98 | Gram-scale synthesis of ultra-fine Cu ₂ O for highly efficient ozone decomposition. RSC Advances, 2020, 10, 5212-5219. | 3.6 | 15 |
| 99 | Design and fabrication of 1-D semiconductor nanomaterials for high-performance photovoltaics. Science Bulletin, 2016, 61, 357-367. | 9.0 | 14 |
| 100 | Diameter Dependence of Planar Defects in InP Nanowires. Scientific Reports, 2016, 6, 32910. | 3.3 | 13 |
| 101 | Manipulating III-V Nanowire Transistor Performance via Surface Decoration of Metal-Oxide Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1700260. | 3.7 | 13 |
| 102 | Synergetic p+n Field-Effect Transistor Circuits for ppb-Level Xylene Detection. IEEE Sensors Journal, 2018, 18, 3875-3882. | 4.7 | 13 |
| 103 | In Situ Synthesis of Monolithic Cu ₂ O@CuO/Cu Catalysts for Effective Ozone Decomposition. Journal of Physical Chemistry C, 2022, 126, 317-325. | 3.1 | 13 |
| 104 | Large-scale and uniform preparation of pure-phase wurtzite GaAs NWs on non-crystalline substrates. Nanoscale Research Letters, 2012, 7, 632. | 5.7 | 12 |
| 105 | ZnO micro-windbreak for enhanced gas diffusion. Sensors and Actuators B: Chemical, 2013, 186, 614-621. | 7.8 | 12 |
| 106 | Catalytic Degradation of Benzene over Nanocatalysts containing Cerium and Manganese. ChemistryOpen, 2016, 5, 495-504. | 1.9 | 10 |
| 107 | Defect-engineered three-dimensional vanadium diselenide microflowers/nanosheets on carbon cloth by chemical vapor deposition for high-performance hydrogen evolution reaction. Nanotechnology, 2021, 32, 265402. | 2.6 | 10 |
| 108 | Growth and Photovoltaic Properties of High-Quality GaAs Nanowires Prepared by the Two-Source CVD Method. Nanoscale Research Letters, 2016, 11, 191. | 5.7 | 9 |

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|-----|--|-----|-----------|
| 109 | Coupling p+n Field-Effect Transistor Circuits for Low Concentration Methane Gas Detection. <i>Sensors</i> , 2018, 18, 787. | 3.8 | 9 |
| 110 | Transient Response to Acetone Gas Using the Interlocking p+n Field-Effect Transistor Circuit. <i>Sensors</i> , 2018, 18, 1914. | 3.8 | 9 |
| 111 | Finely dispersed and highly toluene sensitive NiO/NiGa ₂ O ₄ heterostructures prepared from layered double hydroxides precursors. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130412. | 7.8 | 9 |
| 112 | NiO Thin Film Fabricated by Electrophoretic Deposition and Formaldehyde Gas Sensing Property Thereof. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1346-1349. | 0.9 | 8 |
| 113 | GaAs Nanowires Grown by Catalyst Epitaxy for High Performance Photovoltaics. <i>Crystals</i> , 2018, 8, 347. | 2.2 | 8 |
| 114 | Growth of Ga ₂ O ₃ Nanowires via Cu-As-Ga Ternary Phase Diagram. <i>Crystals</i> , 2019, 9, 155. | 2.2 | 8 |
| 115 | Ambipolar transport in Ni-catalyzed InGaAs nanowire field-effect transistors for near-infrared photodetection. <i>Nanotechnology</i> , 2021, 32, 145203. | 2.6 | 8 |
| 116 | Chalcogen passivation: an in-situ method to manipulate the morphology and electrical property of GaAs nanowires. <i>Scientific Reports</i> , 2018, 8, 6928. | 3.3 | 7 |
| 117 | Filter paper-templated preparation of ZnO thin films and examination of their gas-sensing properties. <i>Particuology</i> , 2011, 9, 253-259. | 3.6 | 6 |
| 118 | One-Dimensional Nanomaterials for Energy Applications. , 2014, , 75-120. | | 6 |
| 119 | Green Catalytic Degradation of Ethyl Acetate Incurred by Strong Interaction Between PdO and Ce _{0.5} Co _{0.5} Support at Low Temperature. <i>Catalysis Letters</i> , 2017, 147, 128-140. | 2.6 | 6 |
| 120 | Enhanced NO ₂ Sensing Property of ZnO by Ga Doping and H ₂ Activation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700861. | 1.8 | 5 |
| 121 | Improving the signal resolution of semiconductor gas sensors to high-concentration gases. <i>Solid-State Electronics</i> , 2019, 162, 107648. | 1.4 | 5 |
| 122 | Controlled Growth of Heterostructured Ga/GaAs Nanowires with Sharp Schottky Barrier. <i>Crystal Growth and Design</i> , 2018, 18, 4438-4444. | 3.0 | 4 |
| 123 | Hydrothermal synthesis of Fe ²⁺ -FeOOH with different morphologies using NaH ₂ PO ₄ as structural modifier. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 662-664. | 1.0 | 3 |
| 124 | Etched p-Type Si Nanowires for Efficient Ozone Decomposition. <i>Nanoscale Research Letters</i> , 2019, 14, 374. | 5.7 | 3 |
| 125 | <110>-growth orientation dependence of Ga ₂ O ₃ nanowires on Cu ₃ As seeds via vapor-solid-solid mechanism. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158786. | 5.5 | 3 |
| 126 | Low-Temperature As-Doped In ₂ O ₃ Nanowires for Room Temperature NO ₂ Gas Sensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 7983-7992. | 5.0 | 3 |

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|-----|--|-----|-----------|
| 127 | Nonpolar GaAs Nanowires Catalyzed by Cu ₅ As ₂ : Insights into As Layer Epitaxy. ACS Omega, 2020, 5, 30963-30970. | 3.5 | 2 |
| 128 | Highly efficient ozone elimination by metal doped ultra-fine Cu ₂ O nanoparticles. Journal of Environmental Sciences, 2023, 134, 108-116. | 6.1 | 1 |
| 129 | Enhanced synthesis method to prepare crystalline GaAs nanowires with high growth yield. , 2011, , . | | 0 |
| 130 | Synthesis, Characterization and Device Applications of InGaAs Nanowires. ECS Transactions, 2013, 50, 179-185. | 0.5 | 0 |
| 131 | Threshold Tuning of III-V Nanowire Transistors via Metal Clusters Decoration. ECS Transactions, 2013, 58, 113-118. | 0.5 | 0 |
| 132 | INTEGRATING SEMICONDUCTOR NANOWIRES FOR HIGH PERFORMANCE FLEXIBLE ELECTRONIC CIRCUITS. , 2016, , 117-165. | | 0 |
| 133 | Nanowire Transistors: Manipulating III-V Nanowire Transistor Performance via Surface Decoration of Metal Oxide Nanoparticles (Adv. Mater. Interfaces 12/2017). Advanced Materials Interfaces, 2017, 4, . | 3.7 | 0 |
| 134 | Thin-Film Transistors: ZnO Nanofiber Thin-Film Transistors with Low Operating Voltages (Adv.) Tj ETQq0 0 0 rgBT /Overlçck 10 Tf 5 | 3.1 | 0 |
| 135 | Nonpolar GaAs Nanowires Catalyzed by CuAs: Insights into As Layer Epitaxy. ACS Omega, 2020, 5, 30963-30970. | 3.5 | 0 |