# Ning Dai

List of Publications by Year
in descending order

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|---|---|---|---|
| 93 papers | 2,190 citations | 279701 23 h-index | 243529 44 g-index |
| 93 all docs | 93 docs citations | 93 times ranked | 3816 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Monolayer WS<sub>2</sub> Lateral Homosuperlattices with Two-dimensional Periodic Localized Photoluminescence. ACS Nano, 2022, 16, 597-603. | 7.3 | 7 |
| 2 | Temperature induced electrical transport in n-Bi2Te3/p-InAs thermoelectric heterojunctions. Journal of Materials Science, 2022, 57, 8767-8778. | 1.7 | 0 |
| 3 | Long-wavelength infrared selective emitter for thermal infrared camouflage under a hot environment. Optics Express, 2022, 30, 24132. | 1.7 | 10 |
| 4 | Ferroelectric dielectric and optical properties of layered PbZr<sub>x</sub>Ti<sub>1-x</sub>O<sub>3</sub> films derived from precursor solutions containing polyvinylpyrrolidone polymer additive. Ferroelectrics, 2021, 571, 120-128. | 0.3 | 0 |
| 5 | Bio-Separated and Gate-Free 2D MoS2 Biosensor Array for Ultrasensitive Detection of BRCA1. Nanomaterials, 2021, 11, 545. | 1.9 | 7 |
| 6 | Nonlocal effective-medium theory for periodic multilayered metamaterials. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.0 | 10 |
| 7 | Observation of gain operation mode in Ge:B BIB THz detector. AIP Advances, 2021, 11, 055015. | 0.6 | 1 |
| 8 | Dark-Current-Blocking Mechanism in BIB Far-Infrared Detectors by Interfacial Barriers. IEEE Transactions on Electron Devices, 2021, 68, 2804-2809. | 1.6 | 5 |
| 9 | Tunable spatial-frequency-shift 3D nanoscopy with chip compatibility overcomes the diffraction limit of the linear optical imaging system. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1. | 2.0 | 0 |
| 10 | Highâ€Performance Roomâ€Temperature Extendedâ€Wavelength InAsâ€Based Middleâ€Wavelength Infrared Photodetector. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100281. | 0.8 | 5 |
| 11 | Low Deposition Temperature Amorphous ALD-Ga<sub>2</sub>O<sub>3</sub> Thin Films and Decoration with MoS<sub>2</sub> Multilayers toward Flexible Solar-Blind Photodetectors. ACS Applied Materials & Interfaces, 2021, 13, 41802-41809. | 4.0 | 23 |
| 12 | Dynamically reconfigurable subwavelength optical device for hydrogen sulfide gas sensing. Photonics Research, 2021, 9, 2060. | 3.4 | 4 |
| 13 | Remarkable photoluminescence enhancement of CsPbBr<sub>3</sub> perovskite quantum dots assisted by metallic thin films. Nanophotonics, 2021, 10, 2257-2264. | 2.9 | 10 |
| 14 | Evolution of Structural and Electronic Properties of TiSe<sub>2</sub> under High Pressure. Journal of Physical Chemistry Letters, 2021, 12, 9859-9867. | 2.1 | 21 |
| 15 | Discovery of Superconductivity in Mercury Cadmium Telluride. Journal of Physical Chemistry C, 2021, 125, 24746-24754. | 1.5 | 0 |
| 16 | Enhancement of Low-Temperature Gas-Sensing Performance Using Substoichiometric WO<sub>3â€“x</sub> Modified with CuO. ACS Applied Materials & Interfaces, 2020, 12, 41230-41238. | 4.0 | 19 |
| 17 | Flexible Transparent Heat Mirror for Thermal Applications. Nanomaterials, 2020, 10, 2479. | 1.9 | 4 |
| 18 | Strained VO 2 Nanostructure Thin Films with an Unaffected Insulatorâ€“Metal Transition. Physica Status Solidi (B): Basic Research, 2020, 257, 1900785. | 0.7 | 1 |

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|---|---|---|---|
| 19 | Gas Sensing Performance and Mechanism of CuO(p)-WO3(n) Composites to H2S Gas. Nanomaterials, 2020, 10, 1162. | 1.9 | 13 |
| 20 | High-efficiency, low-cost distributed Bragg reflector based on Al2O3/PbZr0.4Ti0.6O3 multilayer. AIP Advances, 2020, 10, . | 0.6 | 4 |
| 21 | Ultrasensitive ppb-level H2S gas sensor at room temperature based on WO3/rGO hybrids. Journal of Materials Science: Materials in Electronics, 2020, 31, 5008-5016. | 1.1 | 18 |
| 22 | Impact of the Structural Parameters on the Photoresponse of Terahertz Blocked-Impurity-Band Detectors With Planar Structure. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 358-362. | 2.0 | 7 |
| 23 | Magenta-Emitting Cesium Lead Halide Nanocrystals Encapsulated in Dimethicone for White Light-Emitting Diodes. ACS Applied Nano Materials, 2020, 3, 4886-4892. | 2.4 | 10 |
| 24 | Studies on Sensing Properties and Mechanism of CuO Nanoparticles to H2S Gas. Nanomaterials, 2020, 10, 774. | 1.9 | 39 |
| 25 | Wide gamut, angle-insensitive structural colors based on deep-subwavelength bilayer media. Nanophotonics, 2020, 9, 3385-3392. | 2.9 | 16 |
| 26 | In situ growth of ultrasmall cesium lead bromine quantum dots in a mesoporous silica matrix and their application in flexible light-emitting diodes. Nanoscale, 2019, 11, 16499-16507. | 2.8 | 47 |
| 27 | Largeâ€Area, Broadband, Wideâ€Angle Plasmonic Metasurface Absorber for Midwavelength Infrared Atmospheric Transparency Window. Advanced Optical Materials, 2019, 7, 1900841. | 3.6 | 44 |
| 28 | Layered Nonstoichiometric V<sub>7</sub>O<sub>16</sub> Thin Films with Controlled Oxygen-Deficient Multivalent States and Crystalline Phases. ACS Applied Electronic Materials, 2019, 1, 2308-2313. | 2.0 | 1 |
| 29 | Modulated Metalâ€“Insulator Transition Behaviors in Vanadium Dioxide Nanowires with an Artificial Oxidized Domain. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900383. | 1.2 | 8 |
| 30 | Alâ€Dopingâ€Induced VO<sub>2</sub> (B) Phase in VO<sub>2</sub> (M) Toward Smart Optical Thin Films with Modulated Î”T<sub>vis</sub> and Î”T<sub>c</sub>. Advanced Engineering Materials, 2019, 21, 1900947. | 1.6 | 19 |
| 31 | Suppression of Photoinduced Surface Oxidation of Vanadium Dioxide Nanostructures by Blocking Oxygen Adsorption. ACS Omega, 2019, 4, 17735-17740. | 1.6 | 6 |
| 32 | Phonon Anharmonicity of Tungsten Disulfide. Journal of Physical Chemistry C, 2019, 123, 25509-25514. | 1.5 | 12 |
| 33 | Controllable Polarization Rotator with Broadband High Transmission Using Allâ€Dielectric Metasurfaces. Advanced Theory and Simulations, 2019, 2, 1900086. | 1.3 | 24 |
| 34 | Structural, vibrational, electrical, and magnetic properties of mixed spinel ferrites Mg1-xZnxFe2O4 nanoparticles prepared by co-precipitation. AIP Advances, 2019, 9, . | 0.6 | 22 |
| 35 | Nonstoichiometric Oxygenâ€Dependent Microstructures and Phase Transitions in Postâ€Annealed Vanadium Dioxides. Advanced Engineering Materials, 2019, 21, 1801374. | 1.6 | 9 |
| 36 | Giant conductivity enhancement: Pressure-induced semiconductor-metal phase transition in Cd0.90Zn0.1Te. Physical Review B, 2019, 99, . | 1.1 | 6 |

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|---|---|---|---|
| 37 | Improving gas sensing performance by oxygen vacancies in sub-stoichiometric WO<sub>3â^'x</sub>. RSC Advances, 2019, 9, 7723-7728. | 1.7 | 52 |
| 38 | Strained 2D Layered Materials and Heterojunctions. Annalen Der Physik, 2019, 531, 1800465. | 0.9 | 20 |
| 39 | Large-area, lithography-free, narrow-band and highly directional thermal emitter. Nanoscale, 2019, 11, 19742-19750. | 2.8 | 39 |
| 40 | Excitonic Luminescence Engineering in Tervalent-Europium-Doped Cesium Lead Halide Perovskite Nanocrystals and Their Temperature-Dependent Energy Transfer Emission Properties. Journal of Physical Chemistry C, 2018, 122, 29044-29050. | 1.5 | 33 |
| 41 | Phonon replicas of type-II GaSb/GaAs quantum dot structure grown by liquid phase epitaxy. Applied Physics A: Materials Science and Processing, 2018, 124, 1. | 1.1 | 0 |
| 42 | Selectedâ€Area Chemical Nanoengineering of Vanadium Dioxide Nanostructures Through Nonlithographic Direct Writing. Advanced Materials Interfaces, 2018, 5, 1800974. | 1.9 | 11 |
| 43 | Spatial and Frequency Selective Plasmonic Metasurface for Long Wavelength Infrared Spectral Region. Advanced Optical Materials, 2018, 6, 1800337. | 3.6 | 23 |
| 44 | Optical Properties of Al-Doped ZnO Films in the Infrared Region and Their Absorption Applications. Nanoscale Research Letters, 2018, 13, 149. | 3.1 | 26 |
| 45 | Temperature-dependent Photoluminescence of Silicon Nanocrystals Embedded in SiO2 Matrix. Chemical Research in Chinese Universities, 2018, 34, 513-516. | 1.3 | 0 |
| 46 | PbZr<sub>0.4</sub>Ti<sub>0.6</sub>O<sub>3</sub> dielectric reflectors with large photonic band gap and high average optical reflectivity. Journal of the American Ceramic Society, 2017, 100, 1275-1279. | 1.9 | 1 |
| 47 | Optical Constants and Band Gap Evolution with Phase Transition in Sub-20-nm-Thick TiO2 Films Prepared by ALD. Nanoscale Research Letters, 2017, 12, 243. | 3.1 | 30 |
| 48 | The effect of infrared plasmon on the performance of Si-based THz detectors. Journal of Materials Science: Materials in Electronics, 2017, 28, 839-844. | 1.1 | 13 |
| 49 | Photoelectrochemical Complexes of Fucoxanthinâ€Chlorophyll Protein for Bioâ€Photovoltaic Conversion with a High Openâ€Circuit Photovoltage. Chemistry - an Asian Journal, 2017, 12, 2996-2999. | 1.7 | 7 |
| 50 | A Universal Route to Realize Radiative Cooling and Light Management in Photovoltaic Modules. Solar Rrl, 2017, 1, 1700084. | 3.1 | 78 |
| 51 | Electrical and optical properties of a kind of ferroelectric oxide films comprising of PbZr0.4Ti0.6O3 stacks. Journal of Applied Physics, 2017, 122, 024102. | 1.1 | 1 |
| 52 | Surface plasmon enhanced Si-based BIB terahertz detectors. Applied Physics Letters, 2017, 111, . | 1.5 | 13 |
| 53 | Tailor the functionalities of metasurfaces based on a complete phase diagram. , 2016, , . | | 2 |
| 54 | Bulk photovoltaic effect at infrared wavelength in strained Bi2Te3 films. APL Materials, 2016, 4, . | 2.2 | 9 |

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|---|---|---|---|
| 55 | CuO/WO<sub>3</sub> Hybrid Nanocubes for Highâ€Responsivity and Fastâ€Recovery H<sub>2</sub>S Sensors Operated at Low Temperature. Particle and Particle Systems Characterization, 2016, 33, 15-20. | 1.2 | 23 |
| 56 | Thickness-Dependent Optical Constants and Annealed Phase Transitions of Ultrathin ZnO Films. Journal of Physical Chemistry C, 2016, 120, 22532-22538. | 1.5 | 14 |
| 57 | Shaping the flow of light based on abrupt phase discontinuities operation in high order modes. , 2016, , . | | 0 |
| 58 | Anomalous thermoelectricity in strained Bi2Te3 films. Scientific Reports, 2016, 6, 32661. | 1.6 | 11 |
| 59 | Effects of Al Doping on the Properties of ZnO Thin Films Deposited by Atomic Layer Deposition. Nanoscale Research Letters, 2016, 11, 407. | 3.1 | 95 |
| 60 | Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe<sub>2</sub>/MoS<sub>2</sub> van der Waals Heterostructures. ACS Nano, 2016, 10, 3852-3858. | 7.3 | 453 |
| 61 | Tailor the Functionalities of Metasurfaces Based on a Complete Phase Diagram. Physical Review Letters, 2015, 115, 235503. | 2.9 | 230 |
| 62 | Plasmonic metasurfaces: From perfect absorption to phase modulation. , 2015, , . | | 0 |
| 63 | Zn-aided defect control for ultrathin GZO films with high carrier concentration aiming at alternative plasmonic metamaterials. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1713-1718. | 0.8 | 18 |
| 64 | Self-Induced Uniaxial Strain in MoS<sub>2</sub> Monolayers with Local van der Waals-Stacked Interlayer Interactions. ACS Nano, 2015, 9, 2704-2710. | 7.3 | 47 |
| 65 | Surface properties of AlN and Al x Ga1â^'x N epitaxial layers characterized by angle resolved X-ray photoelectron spectroscopy. Journal of Materials Science: Materials in Electronics, 2015, 26, 950-954. | 1.1 | 6 |
| 66 | An effective way to simultaneous realization of excellent optical and electrical performance in largeâ€scale Si nano/microstructures. Progress in Photovoltaics: Research and Applications, 2015, 23, 964-972. | 4.4 | 29 |
| 67 | Vertically coupled ZnO nanorods on MoS2 monolayers with enhanced Raman and photoluminescence emission. Nano Research, 2015, 8, 743-750. | 5.8 | 52 |
| 68 | Flexible transparent conductive films on PET substrates with an AZO/AgNW/AZO sandwich structure. Journal of Materials Chemistry C, 2014, 2, 3750-3755. | 2.7 | 50 |
| 69 | GROWTH AND MICROSTRUCTURES OF ULTRATHIN <font>Bi</font><sub>2</sub><font>Te</font><sub>3</sub> NANOPLATES BY MODIFIED HOT WALL EPITAXY. Nano, 2014, 09, 1450056. | 0.5 | 4 |
| 70 | Raman mapping of laser-induced changes and ablation of InAs nanowires. Applied Physics A: Materials Science and Processing, 2014, 115, 885-893. | 1.1 | 4 |
| 71 | Solâ€“gel derived near-UV and visible antireflection coatings from hybridized hollow silica nanospheres. Journal of Sol-Gel Science and Technology, 2014, 71, 267-275. | 1.1 | 47 |
| 72 | Light-harvesting complex II sensitized oxide photoanodes with organic acceptor molecule as electron transfer mediator. Chemical Research in Chinese Universities, 2014, 30, 181-184. | 1.3 | 2 |

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|---|---|---|---|
| 73 | Vapor-deposited amorphous metamaterials as visible near-perfect absorbers with random non-prefabricated metal nanoparticles. Scientific Reports, 2014, 4, 4850. | 1.6 | 40 |
| 74 | Application of three-dimensionally area-selective atomic layer deposition for selectively coating the vertical surfaces of standing nanopillars. Scientific Reports, 2014, 4, 4458. | 1.6 | 28 |
| 75 | Radial sandwich hybrid nanorods by analogously inserting Au nanoparticles in ZnO nanorods. RSC Advances, 2013, 3, 21256. | 1.7 | 0 |
| 76 | Controllable synthesis of WO3Â·nH2O microcrystals with various morphologies by a facile inorganic route and their photocatalytic activities. New Journal of Chemistry, 2013, 37, 1538. | 1.4 | 61 |
| 77 | Controllable Synthesis of Cu<sub>2</sub>In<sub>2</sub>ZnS<sub>5</sub> Nano/Microcrystals and Hierarchical Films and Applications in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 10296-10301. | 1.5 | 30 |
| 78 | Nanosphere@nanorod hybrid arrays generated on substrates by a one-pot process as low-reflecting surfaces. RSC Advances, 2013, 3, 21039. | 1.7 | 2 |
| 79 | Multilayer Hybrid Structure of ZnO Nanorod Arrays Imbedded in TiO2 Network as Photoanode. Materials Research Society Symposia Proceedings, 2013, 1493, 111-116. | 0.1 | 0 |
| 80 | Nondestructively decorating surface textured silicon with nanorod arrays for enhancing light harvesting (Phys. Status Solidi A 12âˆ•2013). Physica Status Solidi (A) Applications and Materials Science, 2013, 210, . | 0.8 | 0 |
| 81 | Nondestructively decorating surface textured silicon with nanorod arrays for enhancing light harvesting. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2542-2549. | 0.8 | 6 |
| 82 | A solution synthetic route toward Bi<sub>2</sub>Se<sub>3</sub>layered nanostructures with tunable thickness via weakening precursor reactivity. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1909-1913. | 0.8 | 5 |
| 83 | Logic Circuit Function Realization by One Transistor. Nano Letters, 2012, 12, 5954-5956. | 4.5 | 15 |
| 84 | Terahertz coherent control of surface plasmon polariton propagation in subwavelength metallic hole arrays. Applied Physics Letters, 2012, 100, . | 1.5 | 8 |
| 85 | The Extraordinary Transmission Spectrum in Terahertz Regime: Combination of Shape Resonances and Rayleigh anomalies. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 212-217. | 1.2 | 3 |
| 86 | Surface plasma resonance spectra of Au nanoparticles formed from dewetted thin films. Journal of Materials Science, 2012, 47, 668-676. | 1.7 | 12 |
| 87 | A Special Configuration of Lead Zirconate Titanate Multilayer Stack with Superior Electrical and Optical Properties. Journal of the American Ceramic Society, 2011, 94, 2761-2763. | 1.9 | 3 |
| 88 | Colloidal Cu<sub>2</sub>ZnSnS<sub>4</sub> nanocrystals generated by a facile route using ethylxanthate molecular precursors. Physica Status Solidi - Rapid Research Letters, 2011, 5, 113-115. | 1.2 | 35 |
| 89 | Weak antilocalization effect in high-mobility two-dimensional electron gas in an inversion layer on p-type HgCdTe. Applied Physics Letters, 2011, 99, . | 1.5 | 9 |
| 90 | Effect of Polyethylene Glycol Content on the Optical Properties of Ba<sub>0.9</sub>Sr<sub>0.1</sub>TiO<sub>3</sub> Multilayers. Journal of the American Ceramic Society, 2009, 92, 539-541. | 1.9 | 3 |

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| 91 | Construction of PbZr<sub>0.4</sub>Ti<sub>0.6</sub>O<sub>3</sub>â€•and Ba<sub>0.9</sub>Sr<sub>0.1</sub>TiO<sub>3</sub>â€Based Optical Microcavities by Chemical Solution Deposition. Journal of the American Ceramic Society, 2009, 92, 2159-2161. | 1.9 | 2 |
| 92 | Influence of nonlinear effects in ZnTe on generation and detection of terahertz waves. Journal of Applied Physics, 2009, 105, . | 1.1 | 13 |
| 93 | Carrier concentration dependence of terahertz transmission on conducting ZnO films. Applied Physics Letters, 2008, 93, . | 1.5 | 40 |