

Ning Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

324
papers

16,130
citations

65
h-index

117
g-index

336
ext. papers

17,802
ext. citations

7.2
avg, IF

6.28
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 324 | Few-Atom Pt Ensembles Enable Efficient Catalytic Cyclohexane Dehydrogenation for Hydrogen Production.. <i>Journal of the American Chemical Society</i> , 2022 , | 16.4 | 10 |
| 323 | Defect-rich graphene stabilized atomically dispersed Cu ₃ clusters with enhanced oxidase-like activity for antibacterial applications. <i>Applied Catalysis B: Environmental</i> , 2022 , 301, 120826 | 21.8 | 6 |
| 322 | A Magnetically Separable Pd Single-atom Catalyst for Efficient Selective Hydrogenation of Phenylacetylene.. <i>Advanced Materials</i> , 2022 , e2110455 | 24 | 6 |
| 321 | Bridging the gap between atomically thin semiconductors and metal leads.. <i>Nature Communications</i> , 2022 , 13, 1777 | 17.4 | 2 |
| 320 | Insight into the Activity of Atomically Dispersed Cu Catalysts for Semihydrogenation of Acetylene: Impact of Coordination Environments. <i>ACS Catalysis</i> , 2022 , 12, 48-57 | 13.1 | 3 |
| 319 | Ti1g graphene single-atom material for improved energy level alignment in perovskite solar cells. <i>Nature Energy</i> , 2021 , 6, 1154-1163 | 62.3 | 14 |
| 318 | Probing 2D Magnetism through Electronic Tunneling Transport. <i>Materials and Design</i> , 2021 , 212, 1102358.1 | | |
| 317 | Thermal stability, ripening dynamics and coalescing microstructures of reduced graphene oxide-based platinum nanocatalysts: An in-situ TEM study. <i>Diamond and Related Materials</i> , 2021 , 120, 108690 | 3.5 | 0 |
| 316 | Tuning the selectivity of catalytic nitriles hydrogenation by structure regulation in atomically dispersed Pd catalysts. <i>Nature Communications</i> , 2021 , 12, 6194 | 17.4 | 11 |
| 315 | Constructing Anhydrous Proton Conductive Aramid Membranes through Grafting Kevlar Micro-fibrils with Phosphoric Acid. <i>Fibers and Polymers</i> , 2021 , 22, 1502 | 2 | 1 |
| 314 | Strained Epitaxy of Monolayer Transition Metal Dichalcogenides for Wrinkle Arrays. <i>ACS Nano</i> , 2021 , 15, 6633-6644 | 16.7 | 11 |
| 313 | Strain engineering of epitaxial oxide heterostructures beyond substrate limitations. <i>Matter</i> , 2021 , 4, 1323-1334 | 12.7 | 12 |
| 312 | Regulating coordination number in atomically dispersed Pt species on defect-rich graphene for n-butane dehydrogenation reaction. <i>Nature Communications</i> , 2021 , 12, 2664 | 17.4 | 44 |
| 311 | Phase management in single-crystalline vanadium dioxide beams. <i>Nature Communications</i> , 2021 , 12, 4214 | 17.4 | 7 |
| 310 | A Tunable Resonant Circuit Based on Graphene Quantum Capacitor. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001009 | 6.4 | |
| 309 | Layer-dependent interface reconstruction and strain modulation in twisted WSe. <i>Nanoscale</i> , 2021 , 13, 13624-13630 | 7.7 | 1 |
| 308 | In-Situ Transmission Electron Microscopy: Electron Beam Effects in Carbon-based Nanomaterials. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2110-2113 | 0.5 | 1 |

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|-----|--|------|----|
| 307 | Cooperative Sites in Fully Exposed Pd Clusters for Low-Temperature Direct Dehydrogenation Reaction. <i>ACS Catalysis</i> , 2021 , 11, 11469-11477 | 13.1 | 12 |
| 306 | Lattice reconstruction induced multiple ultra-flat bands in twisted bilayer WSe. <i>Nature Communications</i> , 2021 , 12, 5601 | 17.4 | 6 |
| 305 | In situ atomic-scale studies of thermal stability and surface reconstruction of ZnO nanowires based Pd nanocatalysts. <i>Materials and Design</i> , 2021 , 209, 109947 | 8.1 | 4 |
| 304 | Towards a library of atomically dispersed catalysts. <i>Materials and Design</i> , 2021 , 210, 110080 | 8.1 | 2 |
| 303 | Large-Size Superlattices Synthesized by Sequential Sulfur Substitution-Induced Transformation of Metastable MoTe ₂ . <i>Chemistry of Materials</i> , 2021 , 33, 9760-9768 | 9.6 | 2 |
| 302 | Resolving Nanostructured Materials Down to the Single-atom Limit. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1756-1758 | 0.5 | |
| 301 | Multistimuli-Responsive Insect-Scale Soft Robotics Based on Anisotropic Super-Aligned VO ₂ Nanowire/Carbon Nanotube Bimorph Actuators. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000051 | 6 | 8 |
| 300 | Oxide Inhibitor-Assisted Growth of Single-Layer Molybdenum Dichalcogenides (MoX, X = S, Se, Te) with Controllable Molybdenum Release. <i>ACS Nano</i> , 2020 , 14, 7593-7601 | 16.7 | 18 |
| 299 | Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19450-19459 | 16.4 | 85 |
| 298 | Multiple Regulation over Growth Direction, Band Structure, and Dimension of Monolayer WS ₂ by a Quartz Substrate. <i>Chemistry of Materials</i> , 2020 , 32, 2508-2517 | 9.6 | 14 |
| 297 | Impact of Nanoscale Roughness on Heat Transport across the Solid-Solid Interface. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901582 | 4.6 | 15 |
| 296 | The Mobile and Pinned Grain Boundaries in 2D Monoclinic Rhenium Disulfide. <i>Advanced Science</i> , 2020 , 7, 2001742 | 13.6 | 6 |
| 295 | Revealing high temperature stability of platinum nanocatalysts deposited on graphene oxide by in-situ TEM. <i>Materials Characterization</i> , 2020 , 170, 110706 | 3.9 | 3 |
| 294 | Interaction effects and superconductivity signatures in twisted double-bilayer WSe. <i>Nanoscale Horizons</i> , 2020 , 5, 1309-1316 | 10.8 | 22 |
| 293 | Ohmic contacts for atomically-thin transition metal dichalcogenide semiconductors. <i>Journal of Semiconductors</i> , 2020 , 41, 070401 | 2.3 | 1 |
| 292 | Anomalous fracture in two-dimensional rhenium disulfide. <i>Science Advances</i> , 2020 , 6, | 14.3 | 8 |
| 291 | Controlled growth of atomically thin transition metal dichalcogenides via chemical vapor deposition method. <i>Materials Today Advances</i> , 2020 , 8, 100098 | 7.4 | 13 |
| 290 | Enhancing proton conductivity of phosphoric acid-doped Kevlar nanofibers membranes by incorporating polyacrylamide and 1-butyl-3-methylimidazolium chloride. <i>International Journal of Energy Research</i> , 2020 , 44, 11772-11782 | 4.5 | 0 |

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|-----|---|------|-----|
| 289 | Low-temperature wafer-scale fabrication of vertical VO ₂ nanowire arrays. <i>Applied Physics Letters</i> , 2020 , 117, 083108 | 3.4 | 5 |
| 288 | Lattice Expansion in Optimally Doped Manganese Oxide: An Effective Structural Parameter for Enhanced Thermochemical Water Splitting. <i>ACS Catalysis</i> , 2019 , 9, 9880-9890 | 13.1 | 21 |
| 287 | Anchoring Cu species over nanodiamond-graphene for semi-hydrogenation of acetylene. <i>Nature Communications</i> , 2019 , 10, 4431 | 17.4 | 118 |
| 286 | Electrically tunable physical properties of two-dimensional materials. <i>Nano Today</i> , 2019 , 27, 99-119 | 17.9 | 22 |
| 285 | Effects of Hexagonal Boron Nitride Encapsulation on the Electronic Structure of Few-Layer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14797-14802 | 3.8 | 17 |
| 284 | Single-Crystalline Vanadium Dioxide Actuators. <i>Advanced Functional Materials</i> , 2019 , 29, 1900527 | 15.6 | 22 |
| 283 | Tin-Assisted Fully Exposed Platinum Clusters Stabilized on Defect-Rich Graphene for Dehydrogenation Reaction. <i>ACS Catalysis</i> , 2019 , 9, 5998-6005 | 13.1 | 92 |
| 282 | Induced Ising spin-orbit interaction in metallic thin films on monolayer WSe ₂ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 7 |
| 281 | Enhanced Gate Reliability in GaN MIS-FETs by Converting the GaN Channel into Crystalline Gallium Oxynitride. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 642-648 | 4 | 7 |
| 280 | Recent advances in fabrication strategies, phase transition modulation, and advanced applications of vanadium dioxide. <i>Applied Physics Reviews</i> , 2019 , 6, 011312 | 17.3 | 51 |
| 279 | Controllable defect driven symmetry change and domain structure evolution in BiFeO ₃ with enhanced tetragonality. <i>Nanoscale</i> , 2019 , 11, 8110-8118 | 7.7 | 15 |
| 278 | Intrinsic valley Hall transport in atomically thin MoS ₂ . <i>Nature Communications</i> , 2019 , 10, 611 | 17.4 | 46 |
| 277 | Determining Interaction Enhanced Valley Susceptibility in Spin-Valley-Locked MoS ₂ . <i>Nano Letters</i> , 2019 , 19, 1736-1742 | 11.5 | 21 |
| 276 | Revealing Atomic Structure and Oxidation States of Dopants in Charge-Ordered Nanoparticles for Migration-Promoted Oxygen-Exchange Capacity. <i>Chemistry of Materials</i> , 2019 , 31, 5769-5777 | 9.6 | 7 |
| 275 | Free-Molecular-Flow Modulated Synthesis of Hexagonal Boron Nitride Monolayers. <i>Crystal Growth and Design</i> , 2019 , 19, 7007-7014 | 3.5 | 5 |
| 274 | Atomic-scale identification of crystalline GaON nanophase for enhanced GaN MIS-FET channel. <i>Applied Physics Letters</i> , 2019 , 114, 053109 | 3.4 | 8 |
| 273 | An Ultralight Graphene Honeycomb Sandwich for Stretchable Light-Emitting Displays. <i>Advanced Functional Materials</i> , 2018 , 28, 1707043 | 15.6 | 39 |
| 272 | Investigation of the two-gap superconductivity in a few-layer NbSe ₂ -graphene heterojunction. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 9 |

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|-----|---|------|-----|
| 271 | Deep Eutectic Solvent-Assisted Preparation of Nitrogen/Chloride-Doped Carbon Dots for Intracellular Biological Sensing and Live Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7901-7909 | 9.5 | 64 |
| 270 | Twin Defect Derived Growth of Atomically Thin MoS Dendrites. <i>ACS Nano</i> , 2018 , 12, 635-643 | 16.7 | 63 |
| 269 | 3D heterostructured pure and N-Doped Ni ₃ S ₂ /VS ₂ nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , 2018 , 269, 55-61 | 6.7 | 91 |
| 268 | Nanodiamond-Core-Reinforced, Graphene-Shell-Immobilized Platinum Nanoparticles as a Highly Active Catalyst for the Low-Temperature Dehydrogenation of n-Butane. <i>ChemCatChem</i> , 2018 , 10, 520-524 | 5.2 | 11 |
| 267 | Fluctuation-induced tunneling conduction in iodine-doped bilayer graphene. <i>Journal of Applied Physics</i> , 2018 , 123, 244302 | 2.5 | 2 |
| 266 | Probing pH variation in living cells and assaying hemoglobin in blood with nitrogen enriched carbon dots. <i>Talanta</i> , 2018 , 188, 788-794 | 6.2 | 10 |
| 265 | Thermochromic VO ₂ for Energy-Efficient Smart Windows. <i>Joule</i> , 2018 , 2, 1707-1746 | 27.8 | 274 |
| 264 | Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. <i>Nature Communications</i> , 2018 , 9, 2965 | 17.4 | 22 |
| 263 | Gate-tunable strong-weak localization transition in few-layer black phosphorus. <i>Nanotechnology</i> , 2018 , 29, 035204 | 3.4 | 8 |
| 262 | Atomically Dispersed Pd on Nanodiamond/Graphene Hybrid for Selective Hydrogenation of Acetylene. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13142-13146 | 16.4 | 222 |
| 261 | Vanadium disulfide decorated graphitic carbon nitride for super-efficient solar-driven hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 295-301 | 21.8 | 57 |
| 260 | Dual Functional Core-Shell Fluorescent AgS@Carbon Nanostructure for Selective Assay of E. coli O157:H7 and Bactericidal Treatment. <i>ACS Sensors</i> , 2017 , 2, 371-378 | 9.2 | 16 |
| 259 | Odd-Integer Quantum Hall States and Giant Spin Susceptibility in p-Type Few-Layer WSe ₂ . <i>Physical Review Letters</i> , 2017 , 118, 067702 | 7.4 | 28 |
| 258 | Normally-Off LPCVD-SiN _x /GaN MIS-FET With Crystalline Oxidation Interlayer. <i>IEEE Electron Device Letters</i> , 2017 , 38, 929-932 | 4.4 | 51 |
| 257 | Shape-Dependent Defect Structures of Monolayer MoS Crystals Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 763-770 | 9.5 | 36 |
| 256 | Isolation and Characterization of Few-Layer Manganese Thiophosphite. <i>ACS Nano</i> , 2017 , 11, 11330-11336 | 6.7 | 70 |
| 255 | Axial Modulation of Metal-Insulator Phase Transition of VO ₂ Nanowires by Graded Doping Engineering for Optically Readable Thermometers. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24877-24885 | 3.8 | 23 |
| 254 | Dual-signal model array sensor based on GQDs/AuNPs system for sensitive protein discrimination. <i>Analytica Chimica Acta</i> , 2017 , 992, 105-111 | 6.6 | 15 |

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| 253 | Observation of A Raman mode splitting in few layer black phosphorus encapsulated with hexagonal boron nitride. <i>Nanoscale</i> , 2017 , 9, 19298-19303 | 7.7 | 8 |
| 252 | Ambipolar quantum transport in few-layer black phosphorus. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 17 |
| 251 | A fast transfer-free synthesis of high-quality monolayer graphene on insulating substrates by a simple rapid thermal treatment. <i>Nanoscale</i> , 2016 , 8, 2594-600 | 7.7 | 17 |
| 250 | Negative compressibility in graphene-terminated black phosphorus heterostructures. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 7 |
| 249 | VO-C-SnO Hybrid Nanobelts as High Performance Anodes for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016 , 6, 33597 | 4.9 | 27 |
| 248 | Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. <i>Nature Communications</i> , 2016 , 7, 12955 | 17.4 | 64 |
| 247 | Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. <i>2D Materials</i> , 2016 , 3, 021007 | 5.9 | 78 |
| 246 | Type-controlled nanodevices based on encapsulated few-layer black phosphorus for quantum transport. <i>2D Materials</i> , 2016 , 3, 031001 | 5.9 | 17 |
| 245 | Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. <i>Nano Letters</i> , 2016 , 16, 7768-7773 | 11.5 | 185 |
| 244 | Three Dimensional Sculpturing of Vertical Nanowire Arrays by Conventional Photolithography. <i>Scientific Reports</i> , 2016 , 6, 18886 | 4.9 | 7 |
| 243 | Charge density wave phase transition on the surface of electrostatically doped multilayer graphene. <i>Applied Physics Letters</i> , 2016 , 109, 183107 | 3.4 | 3 |
| 242 | Y-shaped ZnO Nanobelts Driven from Twinned Dislocations. <i>Scientific Reports</i> , 2016 , 6, 22494 | 4.9 | 8 |
| 241 | Probing the electronic states and impurity effects in black phosphorus vertical heterostructures. <i>2D Materials</i> , 2016 , 3, 015012 | 5.9 | 15 |
| 240 | Lead-induced stress corrosion cracking behavior of mechanically surface-treated alloy 690. <i>Materials Research Letters</i> , 2016 , 4, 180-184 | 7.4 | 1 |
| 239 | One step preparation of proton-functionalized photoluminescent graphitic carbon nitride and its sensing applications. <i>RSC Advances</i> , 2016 , 6, 98893-98898 | 3.7 | 16 |
| 238 | Hierarchical ZnO nanostructures with blooming flowers driven by screw dislocations. <i>Scientific Reports</i> , 2015 , 5, 8226 | 4.9 | 13 |
| 237 | Molecular-beam epitaxy of monolayer MoSe ₂ : growth characteristics and domain boundary formation. <i>New Journal of Physics</i> , 2015 , 17, 053023 | 2.9 | 66 |
| 236 | Probing Defect-Induced Midgap States in MoS ₂ Through Graphene/MoS ₂ Heterostructures. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500064 | 4.6 | 15 |

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| 235 | van der Waals epitaxial growth of atomically thin BiSe ₃ and thickness-dependent topological phase transition. <i>Nano Letters</i> , 2015 , 15, 2645-51 | 11.5 | 45 |
| 234 | High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. <i>Nature Communications</i> , 2015 , 6, 7315 | 17.4 | 369 |
| 233 | Detection of interlayer interaction in few-layer graphene. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 17 |
| 232 | Directly Metering Light Absorption and Heat Transfer in Single Nanowires Using Metal-Insulator Transition in VO ₂ . <i>Advanced Optical Materials</i> , 2015 , 3, 336-341 | 8.1 | 20 |
| 231 | Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. <i>Nature Communications</i> , 2015 , 6, 6088 | 17.4 | 151 |
| 230 | Enhanced photocatalytic performance of TiO ₂ -ZnO hybrid nanostructures. <i>Scientific Reports</i> , 2014 , 4, 4181 | 4.9 | 194 |
| 229 | A green route and rational design for ZnO-based high-efficiency photovoltaics. <i>Nanoscale</i> , 2014 , 6, 5093-87 | 3.7 | 6 |
| 228 | Detection of resonant impurities in graphene by quantum capacitance measurement. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 17 |
| 227 | From marine plants to photovoltaic devices. <i>Energy and Environmental Science</i> , 2014 , 7, 343-346 | 35.4 | 20 |
| 226 | Interlaced WO ₃ nanofibers as a superior catalyst for the counter electrode of highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4347-4354 | 13 | 53 |
| 225 | Benzothiadiazole[1,2-b:4,3-b']dithiophene, a new ladder-type multifused block: Synthesis and photovoltaic application. <i>Organic Electronics</i> , 2014 , 15, 3601-3608 | 3.5 | 15 |
| 224 | Semimetallic-to-metallic transition and mobility enhancement enabled by reversible iodine doping of graphene. <i>Nanoscale</i> , 2014 , 6, 13196-202 | 7.7 | 23 |
| 223 | Dense network of one-dimensional midgap metallic modes in monolayer MoSe ₂ and their spatial undulations. <i>Physical Review Letters</i> , 2014 , 113, 066105 | 7.4 | 135 |
| 222 | Preparation of Palladium Catalysts Supported on Carbon Nanotubes by an Electrostatic Adsorption Method. <i>ChemCatChem</i> , 2014 , 6, 2600-2606 | 5.2 | 32 |
| 221 | Palladium nanoparticles embedded in the inner surfaces of carbon nanotubes: synthesis, catalytic activity, and sinter resistance. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12634-8 | 16.4 | 39 |
| 220 | Reduction of nitrobenzene catalyzed by carbon materials. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 914-921 | 11.3 | 45 |
| 219 | Synthese von katalytisch stabilen und sinterbeständigen Palladium-Nanopartikeln auf der inneren Oberfläche von Kohlenstoff-Nanoröhren. <i>Angewandte Chemie</i> , 2014 , 126, 12844-12848 | 3.6 | 4 |
| 218 | Side-gate modulation effects on high-quality BN-Graphene-BN nanoribbon capacitors. <i>Applied Physics Letters</i> , 2014 , 105, 243507 | 3.4 | 6 |

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| 217 | Negative compressibility observed in graphene containing resonant impurities. <i>Applied Physics Letters</i> , 2013 , 102, 203103 | 3.4 | 8 |
| 216 | Tuning the optical and electrical properties of hydrothermally grown ZnO nanowires by sealed post annealing treatment. <i>Solid State Communications</i> , 2013 , 160, 41-46 | 1.6 | 10 |
| 215 | Ultrarapid Sonochemical Synthesis of ZnO Hierarchical Structures: From Fundamental Research to High Efficiencies up to 6.42% for Quasi-Solid Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 1000-1012 | 9.6 | 117 |
| 214 | Electron-electron interactions in monolayer graphene quantum capacitors. <i>Nano Research</i> , 2013 , 6, 619-626 | 16 | 16 |
| 213 | Large-scale mesoscopic transport in nanostructured graphene. <i>Physical Review Letters</i> , 2013 , 110, 066805 | 4 | 20 |
| 212 | Cost-effective and morphology-controllable niobium diselenides for highly efficient counter electrodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11874 | 13 | 48 |
| 211 | Asymmetric ZnO panel-like hierarchical architectures with highly interconnected pathways for free-electron transport and photovoltaic improvements. <i>Chemistry - A European Journal</i> , 2013 , 19, 282-7 | 4.8 | 22 |
| 210 | Oxygen-assisted charge transfer between ZnO quantum dots and graphene. <i>Small</i> , 2013 , 9, 3031-6 | 11 | 154 |
| 209 | Solid-state synthesis of ZnO nanostructures for quasi-solid dye-sensitized solar cells with high efficiencies up to 6.46%. <i>Advanced Materials</i> , 2013 , 25, 4413-9 | 24 | 69 |
| 208 | Modification of electronic properties of top-gated graphene devices by ultrathin yttrium-oxide dielectric layers. <i>Nanoscale</i> , 2013 , 5, 1116-20 | 7.7 | 18 |
| 207 | Luminescence enhancement of ZnO-core/a-SiN(x):H-shell nanorod arrays. <i>Optics Express</i> , 2013 , 21, 5891-6 | 3 | 4 |
| 206 | Ni/NiTA-COATED NANOWIRE MATERIALS FOR PROTEIN ENRICHMENT AND THE APPLICATION IN A MEDICAL DEVICE USED FOR BLOOD GLUCOSE DEGRADATION. <i>Nano</i> , 2013 , 08, 1350029 | 1.1 | 3 |
| 205 | Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. <i>Scientific Reports</i> , 2013 , 3, | 4.9 | 19 |
| 204 | Negative quantum capacitance induced by midgap states in single-layer graphene. <i>Scientific Reports</i> , 2013 , 3, 2041 | 4.9 | 16 |
| 203 | Piezotronic effects on the optical properties of ZnO nanowires. <i>Nano Letters</i> , 2012 , 12, 5802-7 | 11.5 | 63 |
| 202 | Electron-beam-induced elastic-plastic transition in Si nanowires. <i>Nano Letters</i> , 2012 , 12, 2379-85 | 11.5 | 53 |
| 201 | Triple-period partial misfit dislocations at the InN/GaN (0001) interface: A new dislocation core structure for III-N materials. <i>Surface Science</i> , 2012 , 606, 1728-1738 | 1.8 | 4 |
| 200 | Superconductivity in bundles of double-wall carbon nanotubes. <i>Scientific Reports</i> , 2012 , 2, 625 | 4.9 | 38 |

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|-----|--|------|----|
| 199 | Optimizing nanosheet-based ZnO hierarchical structure through ultrasonic-assisted precipitation for remarkable photovoltaic enhancement in quasi-solid dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13097 | | 48 |
| 198 | Correlation between the Morphology and Performance Enhancement of ZnO Hierarchical Flower Photoanodes in Quasi-Solid Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-8 | 3.2 | 2 |
| 197 | Effective control of photoluminescence from ZnO nanowires by a-SiN _x :H decoration. <i>Optics Letters</i> , 2012 , 37, 211-3 | 3 | 3 |
| 196 | Superlattices of Bi ₂ Se ₃ /In ₂ Se ₃ : Growth characteristics and structural properties. <i>Applied Physics Letters</i> , 2011 , 99, 023112 | 3.4 | 39 |
| 195 | Modifying electronic transport properties of graphene by electron beam irradiation. <i>Applied Physics Letters</i> , 2011 , 99, 033109 | 3.4 | 30 |
| 194 | Carbon-assisted nucleation and vertical growth of high-quality ZnO nanowire arrays. <i>AIP Advances</i> , 2011 , 1, 032104 | 1.5 | 7 |
| 193 | Fabrication and structure characterization of te butterfly nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 11037-40 | 1.3 | |
| 192 | Three-Mode Behavior of Spin-Transfer Vortex Oscillators With Dynamic Polarizer. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3704-3707 | 2 | 0 |
| 191 | A self-entanglement mechanism for continuous pulling of carbon nanotube yarns. <i>Carbon</i> , 2011 , 49, 4996-5001 | 5.0 | 30 |
| 190 | ZnO hierarchical structures for efficient quasi-solid dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10631-4 | 3.6 | 38 |
| 189 | Maximum efficiency of the electro-osmotic pump. <i>Physical Review E</i> , 2011 , 83, 066303 | 2.4 | 7 |
| 188 | Zn ₂ TiO ₄ /ZnO Nanowire Axial Heterostructures Formed by Unilateral Diffusion. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 78-82 | 3.8 | 18 |
| 187 | Controllable Fabrication of Three-Dimensional Radial ZnO Nanowire/Silicon Microrod Hybrid Architectures. <i>Crystal Growth and Design</i> , 2011 , 11, 147-153 | 3.5 | 49 |
| 186 | Graphene magnetoresistance device in van der Pauw geometry. <i>Nano Letters</i> , 2011 , 11, 2973-7 | 11.5 | 37 |
| 185 | Digital flow control of electroosmotic pump: Onsager coefficients and interfacial parameters determination. <i>Solid State Communications</i> , 2011 , 151, 440-445 | 1.6 | 8 |
| 184 | Growth of multilayers of Bi ₂ Se ₃ /ZnSe: Heteroepitaxial interface formation and strain. <i>Applied Physics Letters</i> , 2011 , 98, 043104 | 3.4 | 28 |
| 183 | Electron localization in metal-decorated graphene. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 34 |
| 182 | Nitrogen deep accepters in ZnO nanowires induced by ammonia plasma. <i>Applied Physics Letters</i> , 2011 , 99, 143112 | 3.4 | 16 |

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|-----|---|------|-----|
| 181 | Observation of the Meissner state in superconducting arrays of 4-Å carbon nanotubes. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 6 |
| 180 | Effect of the starting surfaces of GaN on defect formation in epitaxial Co thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 093501 | 2.5 | 2 |
| 179 | Molecular-beam epitaxy of AlInN: An effect of source flux and temperature on indium atom incorporation in alloys. <i>Journal of Applied Physics</i> , 2010 , 108, 033503 | 2.5 | 6 |
| 178 | Superconducting resistive transition in coupled arrays of 4-Å carbon nanotubes. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 31 |
| 177 | Surface modification for epitaxial growth of single crystalline cobalt thin films with uniaxial magnetic anisotropy on GaN(0001)-1 $\bar{1}$ surfaces. <i>New Journal of Physics</i> , 2010 , 12, 073007 | 2.9 | 3 |
| 176 | Vertically aligned ZnO/amorphous-Si core-shell heterostructured nanowire arrays. <i>Nanotechnology</i> , 2010 , 21, 475703 | 3.4 | 19 |
| 175 | Ultrathin ZnO nanorods: facile synthesis, characterization and optical properties. <i>Nanotechnology</i> , 2010 , 21, 065603 | 3.4 | 15 |
| 174 | The van der Waals epitaxy of Bi ₂ Se ₃ on the vicinal Si(111) surface: an approach for preparing high-quality thin films of a topological insulator. <i>New Journal of Physics</i> , 2010 , 12, 103038 | 2.9 | 167 |
| 173 | Nanostructural transformation and formation of heterojunctions from Si nanowires. <i>ACS Nano</i> , 2010 , 4, 5559-64 | 16.7 | 9 |
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