

Gyu Chul Yi

List of Publications by Year in descending order

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255
papers

15,243
citations

23879

60
h-index

21239

119
g-index

260
all docs

260
docs citations

260
times ranked

16805
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Molecular beam epitaxial growth of Sb ₂ Te ₃ –Bi ₂ Te ₃ lateral heterostructures. 2D Materials, 2022, 9, 025006. | 2.0 | 6 |
| 2 | Synthesis of Atomically Thin h-BN Layers Using BCl ₃ and NH ₃ by Sequential-Pulsed Chemical Vapor Deposition on Cu Foil. Nanomaterials, 2022, 12, 80. | 1.9 | 5 |
| 3 | Individually addressable and flexible pressure sensor matrixes with ZnO nanotube arrays on graphene. NPG Asia Materials, 2022, 14, . | 3.8 | 18 |
| 4 | Photodetector Arrays Based on MBE-Grown GaSe/Graphene Heterostructure. Advanced Optical Materials, 2022, 10, . | 3.6 | 7 |
| 5 | van der Waals integration of GaN light-emitting diode arrays on foreign graphene films using semiconductor/graphene heterostructures. NPG Asia Materials, 2022, 14, . | 3.8 | 9 |
| 6 | Fabrication of piezoresistive Si nanorod-based pressure sensor arrays: A promising candidate for portable breath monitoring devices. Nano Energy, 2021, 80, 105537. | 8.2 | 55 |
| 7 | Vertical monolithic integration of wide- and narrow-bandgap semiconductor nanostructures on graphene films. NPG Asia Materials, 2021, 13, . | 3.8 | 10 |
| 8 | Intracellular gallium nitride microrod laser. NPG Asia Materials, 2021, 13, . | 3.8 | 5 |
| 9 | Dimensionality reduction and unsupervised clustering for EELS-SI. Ultramicroscopy, 2021, 231, 113314. | 0.8 | 9 |
| 10 | In search of nano-materials with enhanced secondary electron emission for radiation detectors. Scientific Reports, 2021, 11, 10517. | 1.6 | 1 |
| 11 | One-dimensional semiconductor nanostructures grown on two-dimensional nanomaterials for flexible device applications. APL Materials, 2021, 9, . | 2.2 | 22 |
| 12 | Highly sensitive and flexible pressure sensors using position- and dimension-controlled ZnO nanotube arrays grown on graphene films. NPG Asia Materials, 2021, 13, . | 3.8 | 24 |
| 13 | Dimension- and position-controlled growth of GaN microstructure arrays on graphene films for flexible device applications. Scientific Reports, 2021, 11, 17524. | 1.6 | 11 |
| 14 | Facet-selective morphology-controlled remote epitaxy of ZnO microcrystals via wet chemical synthesis. Scientific Reports, 2021, 11, 22697. | 1.6 | 7 |
| 15 | Large-scale, single-oriented ZnO nanostructure on h-BN films for flexible inorganic UV sensors. Journal of Applied Physics, 2021, 130, . | 1.1 | 5 |
| 16 | Database on the nonlinear optical properties of graphene based materials. Data in Brief, 2020, 28, 105049. | 0.5 | 7 |
| 17 | Unraveling absorptive and refractive optical nonlinearities in CVD grown graphene layers transferred onto a foreign quartz substrate. Applied Surface Science, 2020, 505, 144392. | 3.1 | 14 |
| 18 | Flexible and monolithically integrated multicolor light emitting diodes using morphology-controlled GaN microstructures grown on graphene films. Scientific Reports, 2020, 10, 19677. | 1.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Scalable tactile sensor arrays on flexible substrates with high spatiotemporal resolution enabling slip and grip for closed-loop robotics. <i>Science Advances</i> , 2020, 6, . | 4.7 | 77 |
| 20 | Sample pretreatment with graphene materials. <i>Comprehensive Analytical Chemistry</i> , 2020, , 21-47. | 0.7 | 11 |
| 21 | Individually addressable, high-density vertical nanotube Schottky diode crossbar array. <i>Nano Energy</i> , 2020, 76, 104955. | 8.2 | 10 |
| 22 | SbSI microrod based flexible photodetectors. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 345106. | 1.3 | 10 |
| 23 | Large Wavelength Response to Pressure Enabled in InGaN/GaN Microcrystal LEDs with 3D Architectures. <i>ACS Photonics</i> , 2020, 7, 1122-1128. | 3.2 | 6 |
| 24 | Bi_2Se_3 thin films heteroepitaxially grown on Bi_2Te_3 Physical Review Materials, 2020, 4, . | 0.9 | 2 |
| 25 | Study of Chemical Enhancement Mechanism in Non-plasmonic Surface Enhanced Raman Spectroscopy (SERS). <i>Frontiers in Chemistry</i> , 2019, 7, 582. | 1.8 | 84 |
| 26 | Self-contained InGaN/GaN micro-crystal arrays as individually addressable multi-color emitting pixels on a deformable substrate. <i>Journal of Alloys and Compounds</i> , 2019, 803, 826-833. | 2.8 | 5 |
| 27 | Free-standing and ultrathin inorganic light-emitting diode array. <i>NPG Asia Materials</i> , 2019, 11, . | 3.8 | 12 |
| 28 | Quantum Confinement Induced Excitonic Mechanism in Zinc-Oxide-Nanowalled Microrod Arrays for UV-Vis Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24957-24962. | 1.5 | 4 |
| 29 | Direct observation of quantum tunnelling charge transfers between molecules and semiconductors for SERS. <i>Nanoscale</i> , 2019, 11, 45-49. | 2.8 | 17 |
| 30 | SbSI whisker/ PbI_2 flake mixed-dimensional van der Waals heterostructure for photodetection. <i>CrystEngComm</i> , 2019, 21, 3779-3787. | 1.3 | 24 |
| 31 | Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. <i>Nature Materials</i> , 2019, 18, 448-453. | 13.3 | 454 |
| 32 | GaN microstructure light-emitting diodes directly fabricated on tungsten-metal electrodes using a micro-patterned graphene interlayer. <i>Nano Energy</i> , 2019, 60, 82-86. | 8.2 | 15 |
| 33 | Intracellular GaN microrod laser. , 2019, , . | | 1 |
| 34 | Vertical ZnO Nanotube Transistor on a Graphene Film for Flexible Inorganic Electronics. <i>Small</i> , 2018, 14, e1800240. | 5.2 | 25 |
| 35 | Real-Time Characterization Using in situ RHEED Transmission Mode and TEM for Investigation of the Growth Behaviour of Nanomaterials. <i>Scientific Reports</i> , 2018, 8, 1694. | 1.6 | 29 |
| 36 | Understanding luminescence properties of grain boundaries in GaN thin films and their atomistic origin. <i>Applied Physics Letters</i> , 2018, 112, . | 1.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | GaAs droplet quantum dots with nanometer-thin capping layer for plasmonic applications. <i>Nanotechnology</i> , 2018, 29, 205602. | 1.3 | 8 |
| 38 | Selective-area heteroepitaxial growth of <i>h</i> -BN micropatterns on graphene layers. <i>2D Materials</i> , 2018, 5, 015021. | 2.0 | 5 |
| 39 | Millimeter-sized PbI_2 flakes and $Pb_5S_2I_6$ nanowires for flexible photodetectors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7188-7194. | 2.7 | 13 |
| 40 | Three-dimensionally-architected GaN light emitting crystals. <i>CrystEngComm</i> , 2017, 19, 2007-2012. | 1.3 | 9 |
| 41 | ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. <i>APL Materials</i> , 2017, 5, . | 2.2 | 4 |
| 42 | Flexible resistive random access memory devices by using NiO_x /GaN microdisk arrays fabricated on graphene films. <i>Nanotechnology</i> , 2017, 28, 205202. | 1.3 | 12 |
| 43 | Synthesis and characteristics of p-type CdS nanobelts. <i>Materials Research Express</i> , 2017, 4, 115013. | 0.8 | 3 |
| 44 | Single crystalline ZnO radial homojunction light-emitting diodes fabricated by metalorganic chemical vapour deposition. <i>Nanotechnology</i> , 2017, 28, 394001. | 1.3 | 8 |
| 45 | Transferable single-crystal GaN thin films grown on chemical vapor-deposited hexagonal BN sheets. <i>NPG Asia Materials</i> , 2017, 9, e410-e410. | 3.8 | 32 |
| 46 | Self-powered UV-visible photodetector with fast response and high photosensitivity employing an $Fe:TiO_2/n$ -Si heterojunction. <i>RSC Advances</i> , 2017, 7, 51744-51749. | 1.7 | 16 |
| 47 | ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. , 2017, , . | | 1 |
| 48 | InAs nanorods/graphene layers/ZnO nanorods heterostructures for broadband solar cell applications. , 2017, , . | | 0 |
| 49 | ZnO Nanorods and their Heterostructures for Electrical and Optical Nanodevice Applications. , 2016, , . | | 0 |
| 50 | Scalable ZnO nanotube arrays grown on CVD-graphene films. <i>APL Materials</i> , 2016, 4, 106104. | 2.2 | 23 |
| 51 | Distinctive mapping of strain and quantum size effects using depth-resolved photoluminescence in ZnO nanoneedles. <i>AIP Advances</i> , 2016, 6, 045021. | 0.6 | 4 |
| 52 | Centimeter-sized epitaxial h-BN films. <i>NPG Asia Materials</i> , 2016, 8, e330-e330. | 3.8 | 26 |
| 53 | Real-time device-scale imaging of conducting filament dynamics in resistive switching materials. <i>Scientific Reports</i> , 2016, 6, 27451. | 1.6 | 9 |
| 54 | Luminescence dynamics of bound exciton of hydrogen doped ZnO nanowires. <i>Journal of Luminescence</i> , 2016, 176, 278-282. | 1.5 | 7 |

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|----|---|------|-----------|
| 55 | Direct observation of Li diffusion in Li-doped ZnO nanowires. <i>Materials Research Express</i> , 2016, 3, 054001. | 0.8 | 6 |
| 56 | Molecular beam epitaxial growth and electronic transport properties of high quality topological insulator Bi ₂ Se ₃ thin films on hexagonal boron nitride. <i>2D Materials</i> , 2016, 3, 035029. | 2.0 | 24 |
| 57 | Gate-dependent asymmetric transport characteristics in pentacene barristors with graphene electrodes. <i>Nanotechnology</i> , 2016, 27, 475201. | 1.3 | 3 |
| 58 | Flexible GaN Light-Emitting Diodes Using GaN Microdisks Epitaxial Laterally Overgrown on Graphene Dots. <i>Advanced Materials</i> , 2016, 28, 7688-7694. | 11.1 | 75 |
| 59 | Microtube Light-Emitting Diode Arrays with Metal Cores. <i>ACS Nano</i> , 2016, 10, 3114-3120. | 7.3 | 16 |
| 60 | Electrical characterization of benzenedithiolate molecular electronic devices with graphene electrodes on rigid and flexible substrates. <i>Nanotechnology</i> , 2016, 27, 145301. | 1.3 | 12 |
| 61 | Emission color-tuned light-emitting diode microarrays of nonpolar In _x Ga _{1-x} N/GaN multishell nanotube heterostructures. <i>Scientific Reports</i> , 2015, 5, 18020. | 1.6 | 17 |
| 62 | Statistical Analysis of Electrical Properties of Octanemonothiol versus Octanedithol in PEDOT:PSS-Electrode Molecular Junctions. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5937-5941. | 0.9 | 1 |
| 63 | Position-Controlled Selective Growth of ZnO Nanostructures and Their Heterostructures. <i>Semiconductors and Semimetals</i> , 2015, , 173-229. | 0.4 | 2 |
| 64 | B21-P-05 Characterization of In _x Ga _{1-x} As/InAs Coaxial Nanorod Grown on Graphene Layers by Catalyst-Free Molecular Beam Epitaxy. <i>Microscopy (Oxford, England)</i> , 2015, 64, i99.2-i99. | 0.7 | 0 |
| 65 | Nanoscale Single-Element Color Filters. <i>Nano Letters</i> , 2015, 15, 5938-5943. | 4.5 | 21 |
| 66 | Growth and optical characteristics of high-quality ZnO thin films on graphene layers. <i>APL Materials</i> , 2015, 3, . | 2.2 | 20 |
| 67 | Catalyst-free growth of InAs/In _x Ga _{1-x} As coaxial nanorod heterostructures on graphene layers using molecular beam epitaxy. <i>NPG Asia Materials</i> , 2015, 7, e206-e206. | 3.8 | 14 |
| 68 | Enhanced Second Harmonic Generation by Coupling to Exciton Ensembles in Ag-coated ZnO Nanorods. <i>ACS Photonics</i> , 2015, 2, 1314-1319. | 3.2 | 24 |
| 69 | Architected van der Waals epitaxy of ZnO nanostructures on hexagonal BN. <i>NPG Asia Materials</i> , 2014, 6, e145-e145. | 3.8 | 43 |
| 70 | Twinning effect on photoluminescence spectra of ZnSe nanowires. <i>Journal of Applied Physics</i> , 2014, 116, . | 1.1 | 6 |
| 71 | Selective excitation of Fabry-Perot or whispering-gallery mode-type lasing in GaN microrods. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5 | 31 |
| 72 | ZnSe-Based Longitudinal Twinning Nanowires. <i>Advanced Engineering Materials</i> , 2014, 16, 459-465. | 1.6 | 18 |

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|----|--|------|-----------|
| 73 | Variable-Color Light-Emitting Diodes Using GaN Microdonut arrays. <i>Advanced Materials</i> , 2014, 26, 3019-3023. | 11.1 | 41 |
| 74 | Photoluminescence of excitons and defects in ZnSe-based longitudinal twinning nanowires. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 485302. | 1.3 | 5 |
| 75 | Controlled growth of inorganic nanorod arrays using graphene nanodot seed layers. <i>Nanotechnology</i> , 2014, 25, 135609. | 1.3 | 7 |
| 76 | Growth and characterizations of GaN micro-rods on graphene films for flexible light emitting diodes. <i>APL Materials</i> , 2014, 2, . | 2.2 | 98 |
| 77 | High-Resolution Observation of Nucleation and Growth Behavior of Nanomaterials Using a Graphene Template. <i>Advanced Materials</i> , 2014, 26, 2011-2015. | 11.1 | 20 |
| 78 | Metal catalyst-assisted growth of GaN nanowires on graphene films for flexible photocatalyst applications. <i>Current Applied Physics</i> , 2014, 14, 1437-1442. | 1.1 | 39 |
| 79 | Hydrothermal growth of ZnO microstructures on Ar plasma treated graphite. <i>Current Applied Physics</i> , 2014, 14, 269-274. | 1.1 | 2 |
| 80 | High-performance photodetectors and enhanced field-emission of CdS nanowire arrays on CdSe single-crystalline sheets. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8252-8258. | 2.7 | 28 |
| 81 | Stimulated Emission Features of Bound Excitons in ZnO Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5293-5296. | 0.9 | 3 |
| 82 | Integration and Evaluation of Nanophotonic Devices Using Optical Near Field. , 2013, , 599-642. | | 0 |
| 83 | Metal-Lined Semiconductor Nanotubes for Surface Plasmon-Mediated Luminescence Enhancement. <i>Nano Letters</i> , 2013, 13, 2134-2140. | 4.5 | 23 |
| 84 | Microstructural defects in GaN thin films grown on chemically vapor-deposited graphene layers. <i>Applied Physics Letters</i> , 2013, 102, 051908. | 1.5 | 29 |
| 85 | Epitaxial GaN Microdisk Lasers Grown on Graphene Microdots. <i>Nano Letters</i> , 2013, 13, 2782-2785. | 4.5 | 79 |
| 86 | Growth of ZnSe-based longitudinal twinning nanowires by phase transformation. <i>Proceedings of SPIE</i> , 2013, , . | 0.8 | 0 |
| 87 | Geometry-Induced Dislocations in Coaxial Heterostructural Nanotubes. <i>Small</i> , 2013, 9, 2255-2259. | 5.2 | 3 |
| 88 | GaN nanowire/thin film vertical structure p-n junction light-emitting diodes. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 19 |
| 89 | Orientation-Dependent Local Structural Properties of Zn_{1-x}Mg_xO Nanorods Studied by Extended X-Ray Absorption Fine Structure. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1880-1883. | 0.9 | 2 |
| 90 | Repeatable switching of the bending direction of ZnO nanoneedles by ion beams. <i>Nanotechnology</i> , 2012, 23, 075302. | 1.3 | 0 |

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|-----|--|------|-----------|
| 91 | Catalyst-Free Metal-Organic Chemical Vapor Deposition Growth of InN Nanorods. Journal of Nanoscience and Nanotechnology, 2012, 12, 1645-1648. | 0.9 | 0 |
| 92 | Graphene: Position- and Morphology-Controlled ZnO Nanostructures Grown on Graphene Layers (Adv. Mater. 41(2012)). Advanced Materials, 2012, 24, 5564-5564. | 11.1 | 0 |
| 93 | Hybrid Semiconductor Nanostructures with Graphene Layers. Nanoscience and Technology, 2012, , 167-195. | 1.5 | 3 |
| 94 | Nanophotonic Device Application Using Semiconductor Nanorod Heterostructures. Nanoscience and Technology, 2012, , 279-296. | 1.5 | 0 |
| 95 | Catalyst-Free Metal-Organic Vapor-Phase Epitaxy of ZnO and GaN Nanostructures for Visible Light-Emitting Devices. Nanoscience and Technology, 2012, , 37-66. | 1.5 | 2 |
| 96 | Microstructures of GaN Thin Films Grown on Graphene Layers. Advanced Materials, 2012, 24, 515-518. | 11.1 | 72 |
| 97 | High-quality GaN films grown on chemical vapor-deposited graphene films. NPG Asia Materials, 2012, 4, e24-e24. | 3.8 | 95 |
| 98 | Exciton Scattering Mechanism in a Single Semiconducting MgZnO Nanorod. Nano Letters, 2012, 12, 556-561. | 4.5 | 11 |
| 99 | Tunable Catalytic Alloying Eliminates Stacking Faults in Compound Semiconductor Nanowires. Nano Letters, 2012, 12, 855-860. | 4.5 | 18 |
| 100 | Gallium nitride nanostructures for light-emitting diode applications. Nano Energy, 2012, 1, 391-400. | 8.2 | 72 |
| 101 | Position- and Morphology- Controlled ZnO Nanostructures Grown on Graphene Layers. Advanced Materials, 2012, 24, 5565-5569. | 11.1 | 68 |
| 102 | Probing Quantum Confinement within Single Core-Shell Multishell Nanowires. Nano Letters, 2012, 12, 5829-5834. | 4.5 | 34 |
| 103 | Superradiance from one-dimensionally aligned ZnO nanorod multiple-quantum-well structures. Applied Physics Letters, 2012, 100, 233118. | 1.5 | 5 |
| 104 | Excitonic origin of enhanced luminescence quantum efficiency in MgZnO/ZnO coaxial nanowire heterostructures. Applied Physics Letters, 2012, 100, . | 1.5 | 17 |
| 105 | Catalyst-free growth of InN nanorods by metal-organic chemical vapor deposition. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 50-55. | 0.8 | 7 |
| 106 | ZnO Nanorods and their Heterostructures for Electrical and Optical Nanodevice Applications. , 2011, , 335-374. | | 2 |
| 107 | Inorganic nanostructures grown on graphene layers. Nanoscale, 2011, 3, 3522. | 2.8 | 78 |
| 108 | Growth of ZnO-based nanorod heterostructures and their photonic device applications. Proceedings of SPIE, 2011, , . | 0.8 | 1 |

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|-----|--|------|-----------|
| 109 | Hydrothermally grown ZnO nanostructures on few-layer graphene sheets. <i>Nanotechnology</i> , 2011, 22, 245603. | 1.3 | 78 |
| 110 | GaN/ZnO Nanotube Heterostructure Light-Emitting Diodes Fabricated on Si. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 966-970. | 1.9 | 8 |
| 111 | Visible-Color-Tunable Light-Emitting Diodes. <i>Advanced Materials</i> , 2011, 23, 3284-3288. | 11.1 | 276 |
| 112 | Flexible Inorganic Nanostructure Light-Emitting Diodes Fabricated on Graphene Films. <i>Advanced Materials</i> , 2011, 23, 4614-4619. | 11.1 | 210 |
| 113 | Inorganic Optoelectronics: Visible-Color-Tunable Light-Emitting Diodes (<i>Adv. Mater.</i> 29/2011). <i>Advanced Materials</i> , 2011, 23, 3224-3224. | 11.1 | 6 |
| 114 | Formation of 10-14m-level patterned organic thin film using microthermal evaporation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 021016. | 0.6 | 5 |
| 115 | Theory of superradiance by nano-array of quantum-well dots. , 2011, , . | | 0 |
| 116 | Scalable network electrical devices using ZnO nanowalls. <i>Nanotechnology</i> , 2011, 22, 055205. | 1.3 | 23 |
| 117 | Selective formation of GaN-based nanorod heterostructures on soda-lime glass substrates by a local heating method. <i>Nanotechnology</i> , 2011, 22, 205602. | 1.3 | 14 |
| 118 | The Topographic Effect of Zinc Oxide Nanoflowers on Osteoblast Growth and Osseointegration. <i>Advanced Materials</i> , 2010, 22, 4857-4861. | 11.1 | 107 |
| 119 | ZnO nanostructures with controlled morphologies on a glass substrate. <i>Nanotechnology</i> , 2010, 21, 265603. | 1.3 | 14 |
| 120 | Nonvolatile memory devices based on few-layer graphene films. <i>Nanotechnology</i> , 2010, 21, 105204. | 1.3 | 45 |
| 121 | Local Structural and Optical Properties of ZnO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3562-3565. | 0.9 | 25 |
| 122 | Cetuximab-conjugated magneto-fluorescent silica nanoparticles for in vivo colon cancer targeting and imaging. <i>Cancer Letters</i> , 2010, 299, 63-71. | 3.2 | 93 |
| 123 | Transferable GaN Layers Grown on ZnO-Coated Graphene Layers for Optoelectronic Devices. <i>Science</i> , 2010, 330, 655-657. | 6.0 | 569 |
| 124 | Vertical Pillar-Superlattice Array and Graphene Hybrid Light Emitting Diodes. <i>Nano Letters</i> , 2010, 10, 2783-2788. | 4.5 | 129 |
| 125 | Position-controlled AlN/ZnO coaxial nanotube heterostructure arrays for electron emitter applications. <i>Nanotechnology</i> , 2010, 21, 055303. | 1.3 | 13 |
| 126 | Ultrafine ZnO Nanowire Electronic Device Arrays Fabricated by Selective Metal-Organic Chemical Vapor Deposition. <i>Small</i> , 2009, 5, 181-184. | 5.2 | 36 |

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|-----|---|------|-----------|
| 127 | GaN / In _{1-x} Ga _x N / GaN / ZnO nanoarchitecture light emitting diode microarrays. Applied Physics Letters, 2009, 94, . | 1.5 | 62 |
| 128 | Structural and optical characteristics of GaN/ZnO coaxial nanotube heterostructure arrays for light-emitting device applications. New Journal of Physics, 2009, 11, 125021. | 1.2 | 40 |
| 129 | Whispering-gallery-modelike resonance of luminescence from a single hexagonal ZnO microdisk. Journal of Applied Physics, 2009, 106, 094310. | 1.1 | 12 |
| 130 | Modulation doping in ZnO nanorods for electrical nanodevice applications. Applied Physics Letters, 2009, 94, . | 1.5 | 26 |
| 131 | Fabrication and Optical Characteristics of Position-Controlled ZnO Nanotubes and ZnO/Zn _{0.8} Mg _{0.2} O Coaxial Nanotube Quantum Structure Arrays. Advanced Functional Materials, 2009, 19, 1601-1608. | 7.8 | 29 |
| 132 | Shape-Controlled Nanoarchitectures Using Nanowalls. Advanced Materials, 2009, 21, 222-226. | 11.1 | 61 |
| 133 | ZnO/Mg _{0.2} Zn _{0.8} O coaxial nanorod heterostructures for high-performance electronic nanodevice applications. Applied Physics Letters, 2009, 94, 043504. | 1.5 | 24 |
| 134 | Vertically aligned ZnO nanostructures grown on graphene layers. Applied Physics Letters, 2009, 95, . | 1.5 | 154 |
| 135 | Thermoelectric power measurements of wide band gap semiconducting nanowires. Applied Physics Letters, 2009, 94, 022106. | 1.5 | 82 |
| 136 | Nanophotonic energy up conversion using ZnO nanorod double-quantum-well structures. Applied Physics Letters, 2009, 94, . | 1.5 | 12 |
| 137 | Controlled epitaxial growth modes of ZnO nanostructures using different substrate crystal planes. Journal of Materials Chemistry, 2009, 19, 941. | 6.7 | 45 |
| 138 | Nanophotonic Energy up-Conversion Using ZnO Nanorod Double-Quantum-Well Structures. , 2009, , . | | 0 |
| 139 | Preparation and optical properties of one dimensional nano hydroxides and oxides. Springer Proceedings in Physics, 2009, , 87-93. | 0.1 | 0 |
| 140 | Probing Exciton Diffusion in Semiconductors Using Semiconductor Nanorod Quantum Structures. Small, 2008, 4, 467-470. | 5.2 | 26 |
| 141 | Enhancement and Concurrence of Emissions from Multiple Fluorophores in a Single Emitting Layer of Micellar Nanostructures. Advanced Functional Materials, 2008, 18, 2984-2989. | 7.8 | 26 |
| 142 | Low-frequency noise characterization of ZnO nanorod back-gate field-effect transistor structure. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2147-2149. | 1.3 | 7 |
| 143 | Application of spectral reflectance to the monitoring of ZnO nanorod growth. Applied Surface Science, 2008, 255, 746-748. | 3.1 | 14 |
| 144 | Two-dimensional correlation analysis of the time-resolved photoluminescence spectra of gallium nitride nanowires. Journal of Molecular Structure, 2008, 883-884, 209-215. | 1.8 | 5 |

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|-----|---|-----|-----------|
| 145 | Surface morphology and growth mechanism of catalyst-free ZnO and Mg-doped ZnO nanorods. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 197-199. | 1.2 | 30 |
| 146 | Position-controlled ZnO nanoflower arrays grown on glass substrates for electron emitter application. <i>Nanotechnology</i> , 2008, 19, 315202. | 1.3 | 61 |
| 147 | Photocatalysis Using GaN Nanowires. <i>ACS Nano</i> , 2008, 2, 637-642. | 7.3 | 188 |
| 148 | Photoluminescent characteristics of Mg-doped ZnO ($0.5 \leq x \leq 1$) Tl^{2+} doped ZnO ($0.5 \leq x \leq 1$) rgBT/O | 1.0 | 11 |
| 149 | Fabrication of vertically aligned ultrafine ZnO nanorods using metal-organic vapor phase epitaxy with a two-temperature growth method. <i>Nanotechnology</i> , 2008, 19, 175305. | 1.3 | 43 |
| 150 | Morphology transformation of patterned, uniform and faceted GaN microcrystals. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 015406. | 1.3 | 6 |
| 151 | Enhanced light output of GaN-based light-emitting diodes with ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2008, 92, . | 1.5 | 151 |
| 152 | <title>Progress in developing nanophotonic integrated circuits</title>. <i>Proceedings of SPIE</i> , 2008, , . | 0.8 | 0 |
| 153 | Physical Understanding of the Hooge Parameter in ZnO Nanowire Devices. <i>Journal of the Korean Physical Society</i> , 2008, 53, 339-342. | 0.3 | 3 |
| 154 | Local Structural Properties of ZnO Nanoparticles, Nanorods and Powder Studied by Extended X-ray Absorption Fine Structure. <i>Journal of the Korean Physical Society</i> , 2008, 53, 461-465. | 0.3 | 17 |
| 155 | Multilayer Calculation on SR Signal during Growth of ZnO Nanorod. <i>Journal of the Korean Physical Society</i> , 2008, 53, 388-391. | 0.3 | 1 |
| 156 | Observation of Single-Electron Transport in a Zn _{0.8} Mg _{0.2} O/ZnO Coaxial Heterostructure Nanorod. <i>Journal of the Korean Physical Society</i> , 2008, 53, 962-966. | 0.3 | 0 |
| 157 | Local electronic structure of Mn dopants in ZnO probed by resonant inelastic x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 276210. | 0.7 | 5 |
| 158 | Low-temperature ($\sim 270^\circ\text{C}$) growth of vertically aligned ZnO nanorods using photoinduced metal organic vapour phase epitaxy. <i>Nanotechnology</i> , 2007, 18, 065606. | 1.3 | 9 |
| 159 | Nanophotonic switch using ZnO nanorod double-quantum-well structures. <i>Applied Physics Letters</i> , 2007, 90, 223110. | 1.5 | 86 |
| 160 | Near ultraviolet light emitting diode composed of n-GaN/ZnO coaxial nanorod heterostructures on a p-GaN layer. <i>Applied Physics Letters</i> , 2007, 91, . | 1.5 | 55 |
| 161 | Carrier dynamics in ZnO nanorods revealed by pump-probe and the time-resolved photoluminescence. , 2007, , . | | 1 |
| 162 | Progress in developing nanophotonic devices driven by an optical near-field. , 2007, , . | | 0 |

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