

# Gyu Chul Yi

## List of Publications by Citations

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L-index

#	Paper	IF	Citations
225	Metalorganic vapor-phase epitaxial growth of vertically well-aligned ZnO nanorods. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4232-4234	3.4	1014
224	ZnO nanorods: synthesis, characterization and applications. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, S22-S34	1.8	672
223	Electroluminescence in n-ZnO Nanorod Arrays Vertically Grown on p-GaN. <i>Advanced Materials</i> , <b>2004</b> , 16, 87-90	24	644
222	Ferromagnetic properties of Zn <sub>1-x</sub> Mn <sub>x</sub> O epitaxial thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4561-4563	3.4	503
221	Transferable GaN layers grown on ZnO-coated graphene layers for optoelectronic devices. <i>Science</i> , <b>2010</b> , 330, 655-7	33.3	494
220	ZnO Nanoneedles Grown Vertically on Si Substrates by Non-Catalytic Vapor-Phase Epitaxy. <i>Advanced Materials</i> , <b>2002</b> , 14, 1841-1843	24	491
219	Photocatalysis Using ZnO Thin Films and Nanoneedles Grown by MetalOrganic Chemical Vapor Deposition. <i>Advanced Materials</i> , <b>2004</b> , 16, 1661-1664	24	419
218	Excitonic emissions observed in ZnO single crystal nanorods. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 964-966	3.4	388
217	Metalorganic vapor-phase epitaxial growth and photoluminescent properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O (0 ≤ x ≤ 0.49) thin films. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2022-2024	3.4	361
216	Fabrication and electrical characteristics of high-performance ZnO nanorod field-effect transistors. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5052-5054	3.4	337
215	Schottky nanocontacts on ZnO nanorod arrays. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4358-4360	3.4	320
214	Quantum Confinement Observed in ZnO/ZnMgO Nanorod Heterostructures. <i>Advanced Materials</i> , <b>2003</b> , 15, 526-529	24	314
213	Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. <i>Nature Materials</i> , <b>2019</b> , 18, 448-453	27	282
212	Visible-color-tunable light-emitting diodes. <i>Advanced Materials</i> , <b>2011</b> , 23, 3284-8	24	243
211	Fatigue-free samarium-modified bismuth titanate (Bi <sub>4-x</sub> Sm <sub>x</sub> Ti <sub>3</sub> O <sub>12</sub> ) film capacitors having large spontaneous polarizations. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3137-3139	3.4	231
210	Behavior of 2.8- and 3.2-eV photoluminescence bands in Mg-doped GaN at different temperatures and excitation densities. <i>Physical Review B</i> , <b>1999</b> , 59, 13176-13183	3.3	205
209	Random laser action in ZnO nanorod arrays embedded in ZnO epilayers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3241-3243	3.4	190

208	Flexible inorganic nanostructure light-emitting diodes fabricated on graphene films. <i>Advanced Materials</i> , <b>2011</b> , 23, 4614-9	24	186
207	ZnO Nanorod Logic Circuits. <i>Advanced Materials</i> , <b>2005</b> , 17, 1393-1397	24	185
206	Photocatalysis using GaN nanowires. <i>ACS Nano</i> , <b>2008</b> , 2, 637-42	16.7	169
205	Time-resolved and time-integrated photoluminescence in ZnO epilayers grown on Al <sub>2</sub> O <sub>3</sub> (0001) by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1924-1926	3.4	159
204	Synthesis and optical properties of S-doped ZnO nanostructures: nanonails and nanowires. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5491-6	3.4	154
203	Vertically aligned ZnO nanostructures grown on graphene layers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 21310-14	3.4	141
202	Enhanced light output of GaN-based light-emitting diodes with ZnO nanorod arrays. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 121108	3.4	140
201	Vertical pillar-superlattice array and graphene hybrid light emitting diodes. <i>Nano Letters</i> , <b>2010</b> , 10, 2783-8	3.5	126
200	Synthesis and characterization of high-quality In <sub>2</sub> O <sub>3</sub> nanobelts via catalyst-free growth using a simple physical vapor deposition at low temperature. <i>Chemical Physics Letters</i> , <b>2004</b> , 384, 246-250	2.5	119
199	Room-temperature ferromagnetism in chalcopyrite Mn-doped ZnSnAs <sub>2</sub> single crystals. <i>Solid State Communications</i> , <b>2002</b> , 122, 165-167	1.6	119
198	Time-resolved photoluminescence of the size-controlled ZnO nanorods. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4157-4159	3.4	114
197	Controlled selective growth of ZnO nanorod and microrod arrays on Si substrates by a wet chemical method. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 163128	3.4	107
196	Fatigue-free behavior of highly oriented Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> thin films grown on Pt/Ti/SiO <sub>2</sub> /Si(100) by metalorganic solution decomposition. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 658-660	3.4	105
195	Synthesis of single-crystal CdS microbelts using a modified thermal evaporation method and their photoluminescence. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 9294-8	3.4	103
194	The topographic effect of zinc oxide nanoflowers on osteoblast growth and osseointegration. <i>Advanced Materials</i> , <b>2010</b> , 22, 4857-61	24	97
193	Fabrication and Controlled Magnetic Properties of Ni/ZnO Nanorod Heterostructures. <i>Advanced Materials</i> , <b>2003</b> , 15, 1358-1361	24	97
192	Optical and field emission properties of thin single-crystalline GaN nanowires. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11095-9	3.4	94
191	Growth and characterizations of GaN micro-rods on graphene films for flexible light emitting diodes. <i>APL Materials</i> , <b>2014</b> , 2, 092512	5.7	86

190	High-quality GaN films grown on chemical vapor-deposited graphene films. <i>NPG Asia Materials</i> , <b>2012</b> , 4, e24-e24	10.3	85
189	Cetuximab-conjugated magneto-fluorescent silica nanoparticles for in vivo colon cancer targeting and imaging. <i>Cancer Letters</i> , <b>2010</b> , 299, 63-71	9.9	78
188	Enhanced field emission properties from well-aligned zinc oxide nanoneedles grown on the Au(111)-Si substrate. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 083107	3.4	78
187	Photoluminescence and cathodoluminescence properties of Y2O3:Eu nanophosphors prepared by combustion synthesis. <i>Journal of Luminescence</i> , <b>2007</b> , 122-123, 776-779	3.8	77
186	Thermoelectric power measurements of wide band gap semiconducting nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 022106	3.4	75
185	Nanophotonic switch using ZnO nanorod double-quantum-well structures. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 223110	3.4	75
184	Metal-organic vapor phase epitaxial growth of high-quality ZnO films on Al2O3(0001). <i>Journal of Materials Research</i> , <b>2001</b> , 16, 1358-1362	2.5	75
183	Whispering-gallery-model-like-enhanced emission from ZnO nanodisk. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 093104	3.4	74
182	Inorganic nanostructures grown on graphene layers. <i>Nanoscale</i> , <b>2011</b> , 3, 3522-33	7.7	72
181	Hydrothermally grown ZnO nanostructures on few-layer graphene sheets. <i>Nanotechnology</i> , <b>2011</b> , 22, 245603	3.4	71
180	Epitaxial GaN microdisk lasers grown on graphene microdots. <i>Nano Letters</i> , <b>2013</b> , 13, 2782-5	11.5	68
179	Photoluminescent characteristics of Ni-catalyzed GaN nanowires. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 043104	3.4	62
178	ZnSe/Bi Bi-coaxial Nanowire Heterostructures. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1471-1477	15.6	62
177	Deep level defects in n-type GaN compensated with Mg. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3769-3771	3.4	61
176	Gallium nitride nanostructures for light-emitting diode applications. <i>Nano Energy</i> , <b>2012</b> , 1, 391-400	17.1	60
175	Photoluminescent Properties of ZnO/Zn0.8Mg0.2O Nanorod Single-Quantum-Well Structures. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 15457-15460	3.4	60
174	Flexible GaN Light-Emitting Diodes Using GaN Microdisks Epitaxial Laterally Overgrown on Graphene Dots. <i>Advanced Materials</i> , <b>2016</b> , 28, 7688-94	24	58
173	Microstructures of GaN thin films grown on graphene layers. <i>Advanced Materials</i> , <b>2012</b> , 24, 515-8	24	58

172	GaN/In <sub>1-x</sub> GaxN/GaN/ZnO nanoarchitecture light emitting diode microarrays. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 213101	3-4	58
171	Fabrication and electrical characteristics of dual-gate ZnO nanorod metaloxide semiconductor field-effect transistors. <i>Nanotechnology</i> , <b>2006</b> , 17, S327-S331	3-4	58
170	Position- and morphology-controlled ZnO nanostructures grown on graphene layers. <i>Advanced Materials</i> , <b>2012</b> , 24, 5565-9, 5564	24	57
169	Shape-Controlled Nanoarchitectures Using Nanowalls. <i>Advanced Materials</i> , <b>2009</b> , 21, 222-226	24	57
168	Position-controlled ZnO nanoflower arrays grown on glass substrates for electron emitter application. <i>Nanotechnology</i> , <b>2008</b> , 19, 315202	3-4	57
167	Heteroepitaxial fabrication and structural characterizations of ultrafine GaN/ZnO coaxial nanorod heterostructures. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3612-3614	3-4	57
166	Carbonhydrogen complexes in vapor phase epitaxial GaN. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 357-359	3-4	56
165	Fabrication and photoluminescent properties of heteroepitaxial ZnO/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O coaxial nanorod heterostructures. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 1516-9	3-4	55
164	Dry etching of ZnO films and plasma-induced damage to optical properties. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2003</b> , 21, 800		55
163	Near ultraviolet light emitting diode composed of n-GaN/ZnO coaxial nanorod heterostructures on a p-GaN layer. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 123109	3-4	52
162	Quantum confinement effect in ZnO/Mg <sub>0.2</sub> Zn <sub>0.8</sub> O multishell nanorod heterostructures. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 023102	3-4	52
161	Photoluminescent properties of ZnO thin films grown on SiO <sub>2</sub> /Si(100) by metal-organic chemical vapor deposition. <i>Journal of Electronic Materials</i> , <b>2001</b> , 30, L32-L35	1-9	49
160	Compensation of n-type GaN. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 3028-3030	3-4	49
159	Structural and electro-optic properties of laser ablated Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films on SrTiO <sub>3</sub> (100) and SrTiO <sub>3</sub> (110). <i>Applied Physics Letters</i> , <b>1992</b> , 61, 1516-1518	3-4	49
158	Position-Controlled Selective Growth of ZnO Nanorods on Si Substrates Using Facet-Controlled GaN Micropatterns. <i>Advanced Materials</i> , <b>2007</b> , 19, 4416-4419	24	44
157	Low-resistance Ti/Al ohmic contact on undoped ZnO. <i>Journal of Electronic Materials</i> , <b>2002</b> , 31, 868-871	1-9	43
156	Growth behaviour of well-aligned ZnO nanowires on a Si substrate at low temperature and their optical properties. <i>Nanotechnology</i> , <b>2005</b> , 16, 2455-61	3-4	43
155	Nonvolatile memory devices based on few-layer graphene films. <i>Nanotechnology</i> , <b>2010</b> , 21, 105204	3-4	41

154	Study of Chemical Enhancement Mechanism in Non-plasmonic Surface Enhanced Raman Spectroscopy (SERS). <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 582	5	39
153	Structural and optical characteristics of GaN/ZnO coaxial nanotube heterostructure arrays for light-emitting device applications. <i>New Journal of Physics</i> , <b>2009</b> , 11, 125021	2.9	39
152	Fabrication of vertically aligned ultrafine ZnO nanorods using metal-organic vapor phase epitaxy with a two-temperature growth method. <i>Nanotechnology</i> , <b>2008</b> , 19, 175305	3.4	39
151	Controlled Light Emission by Nanoencapsulation of Fluorophores in Thin Films of Diblock Copolymer Micelles. <i>Advanced Materials</i> , <b>2007</b> , 19, 1594-1596	24	39
150	Architected van der Waals epitaxy of ZnO nanostructures on hexagonal BN. <i>NPG Asia Materials</i> , <b>2014</b> , 6, e145-e145	10.3	37
149	Controlled epitaxial growth modes of ZnO nanostructures using different substrate crystal planes. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 941		37
148	Fabrication and photoluminescent characteristics of ZnO/Mg <sub>0.2</sub> Zn <sub>0.8</sub> O coaxial nanorod single quantum well structures. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 173114	3.4	37
147	Variable-color light-emitting diodes using GaN microdonut arrays. <i>Advanced Materials</i> , <b>2014</b> , 26, 3019-2324		36
146	Self-assembled arrays of zinc oxide nanoparticles from monolayer films of diblock copolymer micelles. <i>Chemical Communications</i> , <b>2004</b> , 2850-1	5.8	35
145	Metal catalyst-assisted growth of GaN nanowires on graphene films for flexible photocatalyst applications. <i>Current Applied Physics</i> , <b>2014</b> , 14, 1437-1442	2.6	33
144	Ultrafine ZnO nanowire electronic device arrays fabricated by selective metal-organic chemical vapor deposition. <i>Small</i> , <b>2009</b> , 5, 181-4	11	32
143	Formation and characteristics of highly c-axis-oriented Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> thin films on SiO <sub>2</sub> /Si(100) and Pt/Ti/SiO <sub>2</sub> /Si(100) substrates. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 3124-3132	2.5	32
142	Probing quantum confinement within single core-multishell nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 5829-34	11.5	31
141	Orientation-dependent x-ray absorption fine structure of ZnO nanorods. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 021917	3.4	31
140	Evaluation of the discrete energy levels of individual ZnO nanorod single-quantum-well structures using near-field ultraviolet photoluminescence spectroscopy. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 727-729	3.4	30
139	Laser MBE growth of high-quality ZnO thin films on Al <sub>2</sub> O <sub>3</sub> (0001) and SiO <sub>2</sub> /Si(100) using the third harmonics of a Nd:YAG laser. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, 509-512	2.6	30
138	Luminescence quenching in Er-doped BaTiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1625-1627	3.4	29
137	Selective excitation of Fabry-Perot or whispering-gallery mode-type lasing in GaN microrods. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 201108	3.4	28

136	Surface morphology and growth mechanism of catalyst-free ZnO and Mg <sub>x</sub> Zn <sub>1-x</sub> O nanorods. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2008</b> , 2, 197-199	2.5	28
135	Fabrication and Optical Characteristics of Position-Controlled ZnO Nanotubes and ZnO/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O Coaxial Nanotube Quantum Structure Arrays. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1601-1608	15.6	26
134	High-performance photodetectors and enhanced field-emission of CdS nanowire arrays on CdSe single-crystalline sheets. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8252-8258	7.1	25
133	Modulation doping in ZnO nanorods for electrical nanodevice applications. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 223117	3.4	25
132	Polarized Raman scattering of epitaxial PbTiO <sub>3</sub> thin film with coexisting c and a domains. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3165-3167	3.4	25
131	Scalable tactile sensor arrays on flexible substrates with high spatiotemporal resolution enabling slip and grip for closed-loop robotics. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	25
130	Enhancement and Concurrence of Emissions from Multiple Fluorophores in a Single Emitting Layer of Micellar Nanostructures. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2984-2989	15.6	24
129	Formation and photoluminescent properties of embedded ZnO quantum dots in ZnO/ZnMgO multiple-quantum-well-structured nanorods. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 113106	3.4	24
128	Near-field measurement of spectral anisotropy and optical absorption of isolated ZnO nanorod single-quantum-well structures. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 033101	3.4	24
127	Microstructural defects in GaN thin films grown on chemically vapor-deposited graphene layers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 051908	3.4	23
126	Scalable network electrical devices using ZnO nanowalls. <i>Nanotechnology</i> , <b>2011</b> , 22, 055205	3.4	23
125	ZnO/Mg <sub>0.2</sub> Zn <sub>0.8</sub> O coaxial nanorod heterostructures for high-performance electronic nanodevice applications. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 043504	3.4	23
124	Probing exciton diffusion in semiconductors using semiconductor-nanorod quantum structures. <i>Small</i> , <b>2008</b> , 4, 467-70	11	23
123	Centimeter-sized epitaxial h-BN films. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e330-e330	10.3	22
122	Molecular beam epitaxial growth and electronic transport properties of high quality topological insulator Bi <sub>2</sub> Se <sub>3</sub> thin films on hexagonal boron nitride. <i>2D Materials</i> , <b>2016</b> , 3, 035029	5.9	22
121	Enhanced Second Harmonic Generation by Coupling to Exciton Ensembles in Ag-coated ZnO Nanorods. <i>ACS Photonics</i> , <b>2015</b> , 2, 1314-1319	6.3	21
120	Transferable single-crystal GaN thin films grown on chemical vapor-deposited hexagonal BN sheets. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e410-e410	10.3	21
119	Heteroepitaxial Growth of High-Quality GaN Thin Films on Si Substrates Coated with Self-Assembled Sub-micrometer-sized Silica Balls. <i>Advanced Materials</i> , <b>2006</b> , 18, 2833-2836	24	21

118	Electrical and optical characteristics of hydrogen-plasma treated ZnO nanoneedles. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2005</b> , 23, 1970		21
117	Metal-lined semiconductor nanotubes for surface plasmon-mediated luminescence enhancement. <i>Nano Letters</i> , <b>2013</b> , 13, 2134-40	11.5	20
116	Real-Time Characterization Using in situ RHEED Transmission Mode and TEM for Investigation of the Growth Behaviour of Nanomaterials. <i>Scientific Reports</i> , <b>2018</b> , 8, 1694	4.9	19
115	Nanoscale Single-Element Color Filters. <i>Nano Letters</i> , <b>2015</b> , 15, 5938-43	11.5	18
114	Growth and optical characteristics of high-quality ZnO thin films on graphene layers. <i>APL Materials</i> , <b>2015</b> , 3, 016103	5.7	18
113	GaN nanowire/thin film vertical structure p-n junction light-emitting diodes. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 261116	3.4	18
112	Local structural and optical properties of ZnO nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 3562-5	1.3	18
111	High-resolution observation of nucleation and growth behavior of nanomaterials using a graphene template. <i>Advanced Materials</i> , <b>2014</b> , 26, 2011-5	24	17
110	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> , <b>2008</b> , 53, 461-465	0.6	17
109	Tunable catalytic alloying eliminates stacking faults in compound semiconductor nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 855-60	11.5	16
108	Cathodoluminescence of single ZnO nanorod heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 1458-1461	1.3	16
107	Scalable ZnO nanotube arrays grown on CVD-graphene films. <i>APL Materials</i> , <b>2016</b> , 4, 106104	5.7	16
106	Hydrogen complexes in epitaxial BaTiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 327-329	3.4	15
105	Ellipsometry on uniaxial ZnO and Zn <sub>1-x</sub> Mg <sub>x</sub> O thin films grown on (0001) sapphire substrate. <i>Thin Solid Films</i> , <b>2004</b> , 455-456, 609-614	2.2	15
104	Metal-ZnO Heterostructure Nanorods with an Abrupt Interface. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, L1206-L1208	1.4	15
103	SbSI whisker/PbI <sub>2</sub> flake mixed-dimensional van der Waals heterostructure for photodetection. <i>CrystEngComm</i> , <b>2019</b> , 21, 3779-3787	3.3	14
102	Emission color-tuned light-emitting diode microarrays of nonpolar In <sub>x</sub> Ga <sub>(1-x)</sub> N/GaN multishell nanotube heterostructures. <i>Scientific Reports</i> , <b>2015</b> , 5, 18020	4.9	14
101	Excitonic origin of enhanced luminescence quantum efficiency in MgZnO/ZnO coaxial nanowire heterostructures. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 223103	3.4	14



100	Fabrication of piezoresistive Si nanorod-based pressure sensor arrays: A promising candidate for portable breath monitoring devices. <i>Nano Energy</i> , <b>2021</b> , 80, 105537	17.1	14
99	Selective formation of GaN-based nanorod heterostructures on soda-lime glass substrates by a local heating method. <i>Nanotechnology</i> , <b>2011</b> , 22, 205602	3.4	13
98	Application of spectral reflectance to the monitoring of ZnO nanorod growth. <i>Applied Surface Science</i> , <b>2008</b> , 255, 746-748	6.7	13
97	Optical properties of ZnO nanorods and nanowires. <i>Superlattices and Microstructures</i> , <b>2006</b> , 39, 358-365	2.8	13
96	Catalyst-free growth of InAs/InxGa1-xAs coaxial nanorod heterostructures on graphene layers using molecular beam epitaxy. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e206-e206	10.3	12
95	Vertical ZnO Nanotube Transistor on a Graphene Film for Flexible Inorganic Electronics. <i>Small</i> , <b>2018</b> , 14, e1800240	11	12
94	Microtube Light-Emitting Diode Arrays with Metal Cores. <i>ACS Nano</i> , <b>2016</b> , 10, 3114-20	16.7	12
93	ZnO nanostructures with controlled morphologies on a glass substrate. <i>Nanotechnology</i> , <b>2010</b> , 21, 265603	3.4	12
92	Whispering-gallery-modelike resonance of luminescence from a single hexagonal ZnO microdisk. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 094310	2.5	12
91	Nanophotonic energy up conversion using ZnO nanorod double-quantum-well structures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 083113	3.4	12
90	Position-controlled AlN/ZnO coaxial nanotube heterostructure arrays for electron emitter applications. <i>Nanotechnology</i> , <b>2010</b> , 21, 055303	3.4	11
89	Direct observation of quantum tunnelling charge transfers between molecules and semiconductors for SERS. <i>Nanoscale</i> , <b>2018</b> , 11, 45-49	7.7	10
88	Electrical characterization of benzenedithiolate molecular electronic devices with graphene electrodes on rigid and flexible substrates. <i>Nanotechnology</i> , <b>2016</b> , 27, 145301	3.4	10
87	ZnSe-Based Longitudinal Twinning Nanowires. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 459-465	3.5	10
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44	ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. <i>APL Materials</i> , <b>2017</b> , 5, 046106	5.7	3
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36	Vertical monolithic integration of wide- and narrow-bandgap semiconductor nanostructures on graphene films. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	3
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