

# Chongwu Zhou

## List of Publications by Citations

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238  
papers

33,062  
citations

89  
h-index

180  
g-index

257  
ext. papers

35,746  
ext. citations

11.3  
avg, IF

7.19  
L-index

#	Paper	IF	Citations
238	Nanotube molecular wires as chemical sensors. <i>Science</i> , <b>2000</b> , 287, 622-5	33.3	5169
237	Continuous, highly flexible, and transparent graphene films by chemical vapor deposition for organic photovoltaics. <i>ACS Nano</i> , <b>2010</b> , 4, 2865-73	16.7	1052
236	Reversible electromechanical characteristics of carbon nanotubes under local-probe manipulation. <i>Nature</i> , <b>2000</b> , 405, 769-72	50.4	1013
235	Review of chemical vapor deposition of graphene and related applications. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 2329-39	24.3	1007
234	Transparent, conductive, and flexible carbon nanotube films and their application in organic light-emitting diodes. <i>Nano Letters</i> , <b>2006</b> , 6, 1880-6	11.5	899
233	Hierarchical three-dimensional ZnCoO <sub>4</sub> nanowire arrays/carbon cloth anodes for a novel class of high-performance flexible lithium-ion batteries. <i>Nano Letters</i> , <b>2012</b> , 12, 3005-11	11.5	898
232	Detection of NO <sub>2</sub> down to ppb Levels Using Individual and Multiple In <sub>2</sub> O <sub>3</sub> Nanowire Devices. <i>Nano Letters</i> , <b>2004</b> , 4, 1919-1924	11.5	772
231	The race to replace tin-doped indium oxide: which material will win?. <i>ACS Nano</i> , <b>2010</b> , 4, 11-4	16.7	701
230	Porous doped silicon nanowires for lithium ion battery anode with long cycle life. <i>Nano Letters</i> , <b>2012</b> , 12, 2318-23	11.5	700
229	Preparation and characterization of flexible asymmetric supercapacitors based on transition-metal-oxide nanowire/single-walled carbon nanotube hybrid thin-film electrodes. <i>ACS Nano</i> , <b>2010</b> , 4, 4403-11	16.7	650
228	High-performance chemical sensing using Schottky-contacted chemical vapor deposition grown monolayer MoS <sub>2</sub> transistors. <i>ACS Nano</i> , <b>2014</b> , 8, 5304-14	16.7	502
227	Black phosphorus gas sensors. <i>ACS Nano</i> , <b>2015</b> , 9, 5618-24	16.7	497
226	Fabrication of fully transparent nanowire transistors for transparent and flexible electronics. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 378-84	28.7	470
225	In <sub>2</sub> O <sub>3</sub> nanowires as chemical sensors. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1613-1615	3.4	452
224	Uniform, highly conductive, and patterned transparent films of a percolating silver nanowire network on rigid and flexible substrates using a dry transfer technique. <i>Nano Research</i> , <b>2010</b> , 3, 564-573 <sup>10</sup>		436
223	Laser Ablation Synthesis and Electron Transport Studies of Tin Oxide Nanowires. <i>Advanced Materials</i> , <b>2003</b> , 15, 1754-1757	24	368
222	Large scale, highly conductive and patterned transparent films of silver nanowires on arbitrary substrates and their application in touch screens. <i>Nanotechnology</i> , <b>2011</b> , 22, 245201	3.4	362

221	Inkjet printing of single-walled carbon nanotube/RuO <sub>2</sub> nanowire supercapacitors on cloth fabrics and flexible substrates. <i>Nano Research</i> , <b>2010</b> , 3, 594-603	10	358
220	Wafer-scale fabrication of separated carbon nanotube thin-film transistors for display applications. <i>Nano Letters</i> , <b>2009</b> , 9, 4285-91	11.5	350
219	Complementary detection of prostate-specific antigen using In <sub>2</sub> O <sub>3</sub> nanowires and carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12484-5	16.4	336
218	Magnetite (Fe <sub>3</sub> O <sub>4</sub> ) Core-Shell Nanowires: Synthesis and Magnetoresistance. <i>Nano Letters</i> , <b>2004</b> , 4, 2151-2155	11.5	298
217	Template-free directional growth of single-walled carbon nanotubes on a- and r-plane sapphire. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5294-5	16.4	286
216	Comparison of Graphene Growth on Single-Crystalline and Polycrystalline Ni by Chemical Vapor Deposition. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3101-3107	6.4	285
215	Black Arsenic-Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , <b>2015</b> , 27, 4423-4429	24	282
214	Devices and chemical sensing applications of metal oxide nanowires. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 828-839		272
213	Single crystalline magnetite nanotubes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6-7	16.4	254
212	Transparent electronics based on transfer printed aligned carbon nanotubes on rigid and flexible substrates. <i>ACS Nano</i> , <b>2009</b> , 3, 73-9	16.7	251
211	Growth of Aligned Single-Crystalline Rutile TiO <sub>2</sub> Nanowires on Arbitrary Substrates and Their Application in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7787-7792	3.8	247
210	Chemical Vapor Deposition Growth of Monolayer WSe <sub>2</sub> with Tunable Device Characteristics and Growth Mechanism Study. <i>ACS Nano</i> , <b>2015</b> , 9, 6119-27	16.7	240
209	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , <b>2018</b> , 12, 11756-11784	16.7	239
208	Scalable preparation of porous silicon nanoparticles and their application for lithium-ion battery anodes. <i>Nano Research</i> , <b>2013</b> , 6, 174-181	10	221
207	Selective functionalization of In <sub>2</sub> O <sub>3</sub> nanowire mat devices for biosensing applications. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6922-3	16.4	218
206	Synthesis, Transfer, and Devices of Single- and Few-Layer Graphene by Chemical Vapor Deposition. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 8, 135-138	2.6	212
205	Large-scale complementary macroelectronics using hybrid integration of carbon nanotubes and IGZO thin-film transistors. <i>Nature Communications</i> , <b>2014</b> , 5, 4097	17.4	207
204	Carbon nanotube field-effect inverters. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3329-3331	3.4	206

203	Electrical measurements of individual semiconducting single-walled carbon nanotubes of various diameters. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1597-1599	3.4	200
202	Mechanical and Electrical Anisotropy of Few-Layer Black Phosphorus. <i>ACS Nano</i> , <b>2015</b> , 9, 11362-70	16.7	199
201	High-Performance Organic-Inorganic Hybrid Photodetectors Based on P3HT:CdSe Nanowire Heterojunctions on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1202-1209	15.6	193
200	Large-scale fabrication, 3D tomography, and lithium-ion battery application of porous silicon. <i>Nano Letters</i> , <b>2014</b> , 14, 261-8	11.5	189
199	Patterning, characterization, and chemical sensing applications of graphene nanoribbon arrays down to 5 nm using helium ion beam lithography. <i>ACS Nano</i> , <b>2014</b> , 8, 1538-46	16.7	182
198	Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 11246-11255	3.4	182
197	Fully printed separated carbon nanotube thin film transistor circuits and its application in organic light emitting diode control. <i>Nano Letters</i> , <b>2011</b> , 11, 5301-8	11.5	181
196	Layered P2-Na <sub>2/3</sub> [Ni <sub>1/3</sub> Mn <sub>2/3</sub> ]O <sub>2</sub> as high-voltage cathode for sodium-ion batteries: The capacity decay mechanism and Al <sub>2</sub> O <sub>3</sub> surface modification. <i>Nano Energy</i> , <b>2016</b> , 27, 27-34	17.1	181
195	Intrinsic electrical properties of individual single-walled carbon nanotubes with small band gaps. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5604-7	7.4	178
194	Electronic transport studies of single-crystalline In <sub>2</sub> O <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 112-114	3.4	174
193	Label-free, electrical detection of the SARS virus N-protein with nanowire biosensors utilizing antibody mimics as capture probes. <i>ACS Nano</i> , <b>2009</b> , 3, 1219-24	16.7	170
192	Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 5530-5537	16.7	169
191	Vapor trapping growth of single-crystalline graphene flowers: synthesis, morphology, and electronic properties. <i>Nano Letters</i> , <b>2012</b> , 12, 2810-6	11.5	169
190	Doping dependent NH <sub>3</sub> sensing of indium oxide nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1845-1847	3.4	169
189	Soft Transfer Printing of Chemically Converted Graphene. <i>Advanced Materials</i> , <b>2009</b> , 21, 2098-2102	2.4	166
188	Flexible and transparent supercapacitor based on In <sub>2</sub> O <sub>3</sub> nanowire/carbon nanotube heterogeneous films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 043113	3.4	162
187	Synthesis and electronic transport studies of CdO nanoneedles. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1950-1952	3.4	161
186	Wafer-Scale Growth and Transfer of Aligned Single-Walled Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 8, 498-504	2.6	156

185	Electrical and optical characterization of surface passivation in GaAs nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 4484-9	11.5	153
184	Screen printing as a scalable and low-cost approach for rigid and flexible thin-film transistors using separated carbon nanotubes. <i>ACS Nano</i> , <b>2014</b> , 8, 12769-76	16.7	147
183	Transition Metal Oxide Core-Shell Nanowires: Generic Synthesis and Transport Studies. <i>Nano Letters</i> , <b>2004</b> , 4, 1241-1246	11.5	145
182	CMOS-analogous wafer-scale nanotube-on-insulator approach for submicrometer devices and integrated circuits using aligned nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 189-97	11.5	144
181	GaAs nanowire array solar cells with axial p-i-n junctions. <i>Nano Letters</i> , <b>2014</b> , 14, 3293-303	11.5	142
180	Photoconduction studies on GaN nanowire transistors under UV and polarized UV illumination. <i>Chemical Physics Letters</i> , <b>2004</b> , 389, 176-180	2.5	140
179	Fabrication approach for molecular memory arrays. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 645-647	3.4	138
178	Chirality-controlled synthesis of single-wall carbon nanotubes using vapour-phase epitaxy. <i>Nature Communications</i> , <b>2012</b> , 3, 1199	17.4	137
177	Fully Screen-Printed, Large-Area, and Flexible Active-Matrix Electrochromic Displays Using Carbon Nanotube Thin-Film Transistors. <i>ACS Nano</i> , <b>2016</b> , 10, 9816-9822	16.7	135
176	2,4,6-Trinitrotoluene (TNT) chemical sensing based on aligned single-walled carbon nanotubes and ZnO nanowires. <i>Advanced Materials</i> , <b>2010</b> , 22, 1900-4	24	133
175	Air-stable conversion of separated carbon nanotube thin-film transistors from p-type to n-type using atomic layer deposition of high- $\kappa$ -oxide and its application in CMOS logic circuits. <i>ACS Nano</i> , <b>2011</b> , 5, 3284-92	16.7	131
174	Step-Edge-Guided Nucleation and Growth of Aligned WSe <sub>2</sub> on Sapphire via a Layer-over-Layer Growth Mode. <i>ACS Nano</i> , <b>2015</b> , 9, 8368-75	16.7	130
173	Highly Sensitive and Wearable InO Nanoribbon Transistor Biosensors with Integrated On-Chip Gate for Glucose Monitoring in Body Fluids. <i>ACS Nano</i> , <b>2018</b> , 12, 1170-1178	16.7	130
172	Hierarchical silicon nanowires-carbon textiles matrix as a binder-free anode for high-performance advanced lithium-ion batteries. <i>Scientific Reports</i> , <b>2013</b> , 3, 1622	4.9	126
171	Multilevel memory based on molecular devices. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1949-1951	3.4	126
170	Rigid/flexible transparent electronics based on separated carbon nanotube thin-film transistors and their application in display electronics. <i>ACS Nano</i> , <b>2012</b> , 6, 7412-9	16.7	125
169	Macroelectronic integrated circuits using high-performance separated carbon nanotube thin-film transistors. <i>ACS Nano</i> , <b>2010</b> , 4, 7123-32	16.7	124
168	Chemical Sensors and Electronic Noses Based on 1-D Metal Oxide Nanostructures. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 668-682	2.6	124

167	Reversible Semiconducting-to-Metallic Phase Transition in Chemical Vapor Deposition Grown Monolayer WSe <sub>2</sub> and Applications for Devices. <i>ACS Nano</i> , <b>2015</b> , 9, 7383-91	16.7	122
166	Chirality-Controlled Synthesis and Applications of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , <b>2017</b> , 11, 31-53	16.7	120
165	Screw-dislocation-driven growth of two-dimensional few-layer and pyramid-like WSe <sub>2</sub> by sulfur-assisted chemical vapor deposition. <i>ACS Nano</i> , <b>2014</b> , 8, 11543-51	16.7	117
164	Graphene-oxide-coated LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> as high voltage cathode for lithium ion batteries with high energy density and long cycle life. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4083	13	116
163	Alkaline metal-doped n-type semiconducting nanotubes as quantum dots. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3977-3979	3.4	111
162	Surface Treatment and Doping Dependence of In <sub>2</sub> O <sub>3</sub> Nanowires as Ammonia Sensors. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12451-12455	3.4	106
161	SnO <sub>2</sub> coated carbon cloth with surface modification as Na-ion battery anode. <i>Nano Energy</i> , <b>2015</b> , 16, 399-407	17.1	104
160	Separated carbon nanotube macroelectronics for active matrix organic light-emitting diode displays. <i>Nano Letters</i> , <b>2011</b> , 11, 4852-8	11.5	100
159	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15488-15496	16.4	99
158	A calibration method for nanowire biosensors to suppress device-to-device variation. <i>ACS Nano</i> , <b>2009</b> , 3, 3969-76	16.7	99
157	Vapor-solid growth of one-dimensional layer-structured gallium sulfide nanostructures. <i>ACS Nano</i> , <b>2009</b> , 3, 1115-20	16.7	99
156	Data Storage Studies on Nanowire Transistors with Self-Assembled Porphyrin Molecules. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9646-9649	3.4	97
155	A carbon nanofiber network for stable lithium metal anodes with high Coulombic efficiency and long cycle life. <i>Nano Research</i> , <b>2016</b> , 9, 3428-3436	10	95
154	Review of carbon nanotube nanoelectronics and macroelectronics. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 073001	1.8	94
153	Selective synthesis and device applications of semiconducting single-walled carbon nanotubes using isopropyl alcohol as feedstock. <i>ACS Nano</i> , <b>2012</b> , 6, 7454-62	16.7	93
152	Deposition, characterization, and thin-film-based chemical sensing of ultra-long chemically synthesized graphene nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7555-8	16.4	89
151	Optical, electrical, and solar energy-conversion properties of gallium arsenide nanowire-array photoanodes. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1879	35.4	89
150	High-Performance WSe <sub>2</sub> Field-Effect Transistors via Controlled Formation of In-Plane Heterojunctions. <i>ACS Nano</i> , <b>2016</b> , 10, 5153-60	16.7	89

149	Aligned Carbon Nanotube Synaptic Transistors for Large-Scale Neuromorphic Computing. <i>ACS Nano</i> , <b>2018</b> , 12, 7352-7361	16.7	89
148	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 3172-3179	11.5	87
147	Controllable reversibility of an sp(2) to sp(3) transition of a single wall nanotube under the manipulation of an AFM tip: A nanoscale electromechanical switch?. <i>Physical Review Letters</i> , <b>2000</b> , 84, 4950-3	7.4	87
146	Tandem Solar Cells Using GaAs Nanowires on Si: Design, Fabrication, and Observation of Voltage Addition. <i>Nano Letters</i> , <b>2015</b> , 15, 7217-24	11.5	86
145	Synthesis and characterization of single-crystal indium nitride nanowires. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 423-426	2.5	85
144	Synthesis and device applications of high-density aligned carbon nanotubes using low-pressure chemical vapor deposition and stacked multiple transfer. <i>Nano Research</i> , <b>2010</b> , 3, 831-842	10	83
143	High-performance single-crystalline arsenic-doped indium oxide nanowires for transparent thin-film transistors and active matrix organic light-emitting diode displays. <i>ACS Nano</i> , <b>2009</b> , 3, 3383-90	16.7	82
142	Hierarchical Carbon-Coated Ball-Milled Silicon: Synthesis and Applications in Free-Standing Electrodes and High-Voltage Full Lithium-Ion Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 6280-6291	16.7	79
141	Nanowire transistors with ferroelectric gate dielectrics: Enhanced performance and memory effects. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4553-4555	3.4	77
140	Toward optimized light utilization in nanowire arrays using scalable nanosphere lithography and selected area growth. <i>Nano Letters</i> , <b>2012</b> , 12, 2839-45	11.5	76
139	Novel nanotube-on-insulator (NOI) approach toward single-walled carbon nanotube devices. <i>Nano Letters</i> , <b>2006</b> , 6, 34-9	11.5	74
138	Redox sorting of carbon nanotubes. <i>Nano Letters</i> , <b>2015</b> , 15, 1642-6	11.5	73
137	Two-Dimensional Semiconductors: From Materials Preparation to Electronic Applications. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700045	6.4	69
136	Nearly exclusive growth of small diameter semiconducting single-wall carbon nanotubes from organic chemistry synthetic end-cap molecules. <i>Nano Letters</i> , <b>2015</b> , 15, 586-95	11.5	69
135	Silicon(lithiated)Sulfur full cells with porous silicon anode shielded by Nafion against polysulfides to achieve high capacity and energy density. <i>Nano Energy</i> , <b>2016</b> , 19, 68-77	17.1	69
134	A nanoelectronic nose: a hybrid nanowire/carbon nanotube sensor array with integrated micromachined hotplates for sensitive gas discrimination. <i>Nanotechnology</i> , <b>2009</b> , 20, 125503	3.4	68
133	Chirality-dependent vapor-phase epitaxial growth and termination of single-wall carbon nanotubes. <i>Nano Letters</i> , <b>2013</b> , 13, 4416-21	11.5	67
132	Importance of controlling nanotube density for highly sensitive and reliable biosensors functional in physiological conditions. <i>ACS Nano</i> , <b>2010</b> , 4, 6914-22	16.7	67



131	Radio frequency and linearity performance of transistors using high-purity semiconducting carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 4169-76	16.7	67
130	Rapid, label-free, electrical whole blood bioassay based on nanobiosensor systems. <i>ACS Nano</i> , <b>2011</b> , 5, 9883-91	16.7	63
129	Aligned epitaxial SnO <sub>2</sub> nanowires on sapphire: growth and device applications. <i>Nano Letters</i> , <b>2014</b> , 14, 3014-22	11.5	61
128	Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. <i>Nano Research</i> , <b>2011</b> , 4, 290-296	10	61
127	Chemical gating of In <sub>2</sub> O <sub>3</sub> nanowires by organic and biomolecules. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4014-4016	3.4	61
126	Threshold Voltage and On/Off Ratio Tuning for Multiple-Tube Carbon Nanotube FETs. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 8, 4-9	2.6	59
125	Dynamically controllable polarity modulation of MoTe field-effect transistors through ultraviolet light and electrostatic activation. <i>Science Advances</i> , <b>2019</b> , 5, eaav3430	14.3	57
124	Metal contact engineering and registration-free fabrication of complementary metal-oxide semiconductor integrated circuits using aligned carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 1147-53	16.7	57
123	Synthesis, electronic properties, and applications of indium oxide nanowires. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 1006, 104-21	6.5	57
122	High-power lithium ion batteries based on flexible and light-weight cathode of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /carbon nanotube film. <i>Nano Energy</i> , <b>2015</b> , 12, 43-51	17.1	56
121	Synthesis and Electronic Properties of Individual Single-Walled Carbon Nanotube/Polypyrrole Composite Nanocables. <i>Advanced Materials</i> , <b>2005</b> , 17, 2727-2732	24	56
120	Room-Temperature Pressure Synthesis of Layered Black Phosphorus-Graphene Composite for Sodium-Ion Battery Anodes. <i>ACS Nano</i> , <b>2018</b> , 12, 8323-8329	16.7	55
119	Tellurene Photodetector with High Gain and Wide Bandwidth. <i>ACS Nano</i> , <b>2020</b> , 14, 303-310	16.7	55
118	Self-aligned fabrication of graphene RF transistors with T-shaped gate. <i>ACS Nano</i> , <b>2012</b> , 6, 3371-6	16.7	54
117	Giant random telegraph signals in the carbon nanotubes as a single defect probe. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 163102	3.4	53
116	Free-standing LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /carbon nanofiber network film as lightweight and high-power cathode for lithium ion batteries. <i>ACS Nano</i> , <b>2014</b> , 8, 4876-82	16.7	52
115	Highly scalable, uniform, and sensitive biosensors based on top-down indium oxide nanoribbons and electronic enzyme-linked immunosorbent assay. <i>Nano Letters</i> , <b>2015</b> , 15, 1943-51	11.5	51
114	Bulk synthesis of crystalline and crystalline core/amorphous shell silicon nanowires and their application for energy storage. <i>ACS Nano</i> , <b>2011</b> , 5, 8383-90	16.7	51



113	Indium oxide nanospirals made of kinked nanowires. <i>ACS Nano</i> , <b>2011</b> , 5, 2155-61	16.7	50
112	Radio Frequency Transistors Using Aligned Semiconducting Carbon Nanotubes with Current-Gain Cutoff Frequency and Maximum Oscillation Frequency Simultaneously Greater than 70 GHz. <i>ACS Nano</i> , <b>2016</b> , 10, 6782-90	16.7	49
111	Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using InO Nanoribbon Biosensors Fabricated Using Shadow Masks. <i>ACS Nano</i> , <b>2016</b> , 10, 10117-10125	16.7	48
110	1/f noise of SnO <sub>2</sub> nanowire transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 243120	3.4	48
109	Nanosignal Processing: Stochastic Resonance in Carbon Nanotubes That Detect Subthreshold Signals. <i>Nano Letters</i> , <b>2003</b> , 3, 1683-1686	11.5	48
108	Aligned carbon nanotubes: from controlled synthesis to electronic applications. <i>Nanoscale</i> , <b>2013</b> , 5, 9483-502	11.5	47
107	A nanoelectronic enzyme-linked immunosorbent assay for detection of proteins in physiological solutions. <i>Small</i> , <b>2010</b> , 6, 232-8	11	47
106	Device study, chemical doping, and logic circuits based on transferred aligned single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 033101	3.4	47
105	Scalable light-induced metal to semiconductor conversion of carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 3592-8	11.5	46
104	Noise-Enhanced Detection of Subthreshold Signals With Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , <b>2006</b> , 5, 613-627	2.6	46
103	charge storage behavior of nanowire transistors functionalized with bis(terpyridine)-Fe(II) molecules: dependence on molecular structure. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7750-1	16.4	46
102	Role of self-assembled monolayer passivation in electrical transport properties and flicker noise of nanowire transistors. <i>ACS Nano</i> , <b>2012</b> , 6, 7352-61	16.7	45
101	One-dimensional transport of In <sub>2</sub> O <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 213101	3.4	45
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