

Chongwu Zhou

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.

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	Highly sensitive, scalable, and rapid SARS-CoV-2 biosensor based on InO nanoribbon transistors and phosphatase.. <i>Nano Research</i> , 2022 , 1-7	10	1
237	Narrower Nanoribbon Biosensors Fabricated by Chemical Lift-off Lithography Show Higher Sensitivity. <i>ACS Nano</i> , 2021 , 15, 904-915	16.7	19
236	Defect-Tolerant TiO ₂ -Coated and Discretized Photoanodes for >600 h of Stable Photoelectrochemical Water Oxidation. <i>ACS Energy Letters</i> , 2021 , 6, 193-200	20.1	9
235	Gate-tunable plasmons in mixed-dimensional van der Waals heterostructures. <i>Nature Communications</i> , 2021 , 12, 5039	17.4	7
234	Flexible Multiplexed InO Nanoribbon Aptamer-Field-Effect Transistors for Biosensing. <i>IScience</i> , 2020 , 23, 101469	6.1	19
233	Red-phosphorus-impregnated carbon nanofibers for sodium-ion batteries and liquefaction of red phosphorus. <i>Nature Communications</i> , 2020 , 11, 2520	17.4	41
232	Nonlinear Luttinger liquid plasmons in semiconducting single-walled carbon nanotubes. <i>Nature Materials</i> , 2020 , 19, 986-991	27	17
231	Metallic Carbon Nanotube Nanocavities as Ultracompact and Low-loss Fabry-Perot Plasmonic Resonators. <i>Nano Letters</i> , 2020 , 20, 2695-2702	11.5	8
230	Stacking Independence and Resonant Interlayer Excitation of Monolayer WSe ₂ /MoSe ₂ Heterostructures for Photocatalytic Energy Conversion. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1175-1181	5.6	3
229	Room temperature wideband tunable photoluminescence of pulsed thermally annealed layered black phosphorus. <i>Nanophotonics</i> , 2020 , 9, 4253-4264	6.3	4
228	Tellurene Photodetector with High Gain and Wide Bandwidth. <i>ACS Nano</i> , 2020 , 14, 303-310	16.7	55
227	Gold-vapor-assisted chemical vapor deposition of aligned monolayer WSe ₂ with large domain size and fast growth rate. <i>Nano Research</i> , 2020 , 13, 2625-2631	10	7
226	Tunneling Spectroscopy in Carbon Nanotube-Hexagonal Boron Nitride-Carbon Nanotube Heterojunctions. <i>Nano Letters</i> , 2020 , 20, 6712-6718	11.5	5
225	Review of Electronics Based on Single-Walled Carbon Nanotubes. <i>Topics in Current Chemistry Collections</i> , 2019 , 189-224	1.8	10
224	Dynamically controllable polarity modulation of MoTe field-effect transistors through ultraviolet light and electrostatic activation. <i>Science Advances</i> , 2019 , 5, eaav3430	14.3	57
223	Fully Printed All-Solid-State Organic Flexible Artificial Synapse for Neuromorphic Computing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16749-16757	9.5	42
222	Logarithm Diameter Scaling and Carrier Density Independence of One-Dimensional Luttinger Liquid Plasmon. <i>Nano Letters</i> , 2019 , 19, 2360-2365	11.5	11

221	Photoinduced Doping To Enable Tunable and High-Performance Anti-Ambipolar MoTe/MoS Heterotransistors. <i>ACS Nano</i> , 2019 , 13, 5430-5438	16.7	42
220	Wafer-scalable, aligned carbon nanotube transistors operating at frequencies of over 100 GHz. <i>Nature Electronics</i> , 2019 , 2, 530-539	28.4	37
219	Synthesis of Red and Black Phosphorus Nanomaterials. <i>ACS Symposium Series</i> , 2019 , 1-25	0.4	1
218	Synthesis of interconnected graphene framework with two-dimensional protective layers for stable lithium metal anodes. <i>Energy Storage Materials</i> , 2019 , 17, 341-348	19.4	18
217	Quasi-two-dimensional β -Ga ₂ O ₃ field effect transistors with large drain current density and low contact resistance via controlled formation of interfacial oxygen vacancies. <i>Nano Research</i> , 2019 , 12, 143-148	10	18
216	Highly Sensitive and Wearable InO Nanoribbon Transistor Biosensors with Integrated On-Chip Gate for Glucose Monitoring in Body Fluids. <i>ACS Nano</i> , 2018 , 12, 1170-1178	16.7	130
215	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. <i>Nano Letters</i> , 2018 , 18, 3172-3179	11.5	87
214	Correlation of Electron Tunneling and Plasmon Propagation in a Luttinger Liquid. <i>Physical Review Letters</i> , 2018 , 121, 047702	7.4	13
213	Room-Temperature Pressure Synthesis of Layered Black Phosphorus-Graphene Composite for Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2018 , 12, 8323-8329	16.7	55
212	Single-step flash-heat synthesis of red phosphorus/graphene flame-retardant composite as flexible anodes for sodium-ion batteries. <i>Nano Research</i> , 2018 , 11, 3780-3790	10	20
211	Hierarchical Carbon-Coated Ball-Milled Silicon: Synthesis and Applications in Free-Standing Electrodes and High-Voltage Full Lithium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 6280-6291	16.7	79
210	Functional interlayer of PVDF-HFP and carbon nanofiber for long-life lithium-sulfur batteries. <i>Nano Research</i> , 2018 , 11, 3340-3352	10	45
209	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784	16.7	239
208	Aligned Carbon Nanotube Synaptic Transistors for Large-Scale Neuromorphic Computing. <i>ACS Nano</i> , 2018 , 12, 7352-7361	16.7	89
207	Chirality-Controlled Synthesis and Applications of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 31-53	16.7	120
206	Top-Contact Self-Aligned Printing for High-Performance Carbon Nanotube Thin-Film Transistors with Sub-Micron Channel Length. <i>ACS Nano</i> , 2017 , 11, 2008-2014	16.7	31
205	Two-Dimensional Semiconductors: From Materials Preparation to Electronic Applications. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700045	6.4	69
204	Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. <i>ACS Nano</i> , 2017 , 11, 5530-5537	16.7	169

203	Synthesis, Characterization, and Device Application of Antimony-Substituted Violet Phosphorus: A Layered Material. <i>ACS Nano</i> , 2017 , 11, 4105-4113	16.7	20
202	Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. <i>Advanced Functional Materials</i> , 2017 , 27, 1602873	15.6	24
201	Review of Electronics Based on Single-Walled Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 2017 , 375, 75	7.2	37
200	High-Performance Sub-Micrometer Channel WSe Field-Effect Transistors Prepared Using a Flood-Dike Printing Method. <i>ACS Nano</i> , 2017 , 11, 12536-12546	16.7	6
199	Black Phosphorus Field-Effect Transistors with Work Function Tunable Contacts. <i>ACS Nano</i> , 2017 , 11, 7126-7133	16.7	40
198	In Situ and Ex Situ TEM Study of Lithiation Behaviours of Porous Silicon Nanostructures. <i>Scientific Reports</i> , 2016 , 6, 31334	4.9	28
197	A carbon nanofiber network for stable lithium metal anodes with high Coulombic efficiency and long cycle life. <i>Nano Research</i> , 2016 , 9, 3428-3436	10	95
196	Fully Screen-Printed, Large-Area, and Flexible Active-Matrix Electrochromic Displays Using Carbon Nanotube Thin-Film Transistors. <i>ACS Nano</i> , 2016 , 10, 9816-9822	16.7	135
195	Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using InO Nanoribbon Biosensors Fabricated Using Shadow Masks. <i>ACS Nano</i> , 2016 , 10, 10117-10125	16.7	48
194	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15488-15496	16.4	99
193	Carbon Nanotube Macroelectronics for Active Matrix Polymer-Dispersed Liquid Crystal Displays. <i>ACS Nano</i> , 2016 , 10, 10068-10074	16.7	30
192	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> , 2016 , 10, 6782-90	16.7	49
191	A facile and low-cost length sorting of single-wall carbon nanotubes by precipitation and applications for thin-film transistors. <i>Nanoscale</i> , 2016 , 8, 3467-73	7.7	29
190	Radio frequency transistors based on ultra-high purity semiconducting carbon nanotubes with superior extrinsic maximum oscillation frequency. <i>Nano Research</i> , 2016 , 9, 363-371	10	22
189	Imperceptible and Ultraflexible p-Type Transistors and Macroelectronics Based on Carbon Nanotubes. <i>ACS Nano</i> , 2016 , 10, 199-206	16.7	34
188	Facile Five-Step Heteroepitaxial Growth of GaAs Nanowires on Silicon Substrates and the Twin Formation Mechanism. <i>ACS Nano</i> , 2016 , 10, 2424-35	16.7	14
187	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> , 2016 , 19, 68-77	17.1	69
186	Layered P2-Na _{2/3} [Ni _{1/3} Mn _{2/3}]O ₂ as high-voltage cathode for sodium-ion batteries: The capacity decay mechanism and Al ₂ O ₃ surface modification. <i>Nano Energy</i> , 2016 , 27, 27-34	17.1	181

185	High-performance radio frequency transistors based on diameter-separated semiconducting carbon nanotubes. <i>Applied Physics Letters</i> , 2016 , 108, 233105	3.4	16
184	High-Performance WSe ₂ Field-Effect Transistors via Controlled Formation of In-Plane Heterojunctions. <i>ACS Nano</i> , 2016 , 10, 5153-60	16.7	89
183	Step-Edge-Guided Nucleation and Growth of Aligned WSe ₂ on Sapphire via a Layer-over-Layer Growth Mode. <i>ACS Nano</i> , 2015 , 9, 8368-75	16.7	130
182	SnO ₂ coated carbon cloth with surface modification as Na-ion battery anode. <i>Nano Energy</i> , 2015 , 16, 399-407	17.1	104
181	Reversible Semiconducting-to-Metallic Phase Transition in Chemical Vapor Deposition Grown Monolayer WSe ₂ and Applications for Devices. <i>ACS Nano</i> , 2015 , 9, 7383-91	16.7	122
180	Redox sorting of carbon nanotubes. <i>Nano Letters</i> , 2015 , 15, 1642-6	11.5	73
179	Black phosphorus gas sensors. <i>ACS Nano</i> , 2015 , 9, 5618-24	16.7	497
178	Vapor-phase transport deposition, characterization, and applications of large nanographenes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4453-9	16.4	15
177	Mechanical and Electrical Anisotropy of Few-Layer Black Phosphorus. <i>ACS Nano</i> , 2015 , 9, 11362-70	16.7	199
176	Tandem Solar Cells Using GaAs Nanowires on Si: Design, Fabrication, and Observation of Voltage Addition. <i>Nano Letters</i> , 2015 , 15, 7217-24	11.5	86
175	Re-growth of single-walled carbon nanotube by hot-wall and cold-wall chemical vapor deposition. <i>Carbon</i> , 2015 , 95, 497-502	10.4	10
174	Nearly exclusive growth of small diameter semiconducting single-wall carbon nanotubes from organic chemistry synthetic end-cap molecules. <i>Nano Letters</i> , 2015 , 15, 586-95	11.5	69
173	High-power lithium ion batteries based on flexible and light-weight cathode of LiNi _{0.5} Mn _{1.5} O ₄ /carbon nanotube film. <i>Nano Energy</i> , 2015 , 12, 43-51	17.1	56
172	(9,8) Single-Walled Carbon Nanotube Enrichment via Aqueous Two-Phase Separation and Their Thin-Film Transistor Applications. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500151	6.4	19
171	Black Arsenic-Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , 2015 , 27, 4423-4429	24	282
170	Capacity retention behavior and morphology evolution of SixGe _{1-x} nanoparticles as lithium-ion battery anode. <i>Nanotechnology</i> , 2015 , 26, 255702	3.4	11
169	Chemical Vapor Deposition Growth of Monolayer WSe ₂ with Tunable Device Characteristics and Growth Mechanism Study. <i>ACS Nano</i> , 2015 , 9, 6119-27	16.7	240
168	Threshold voltage tuning and printed complementary transistors and inverters based on thin films of carbon nanotubes and indium zinc oxide. <i>Nano Research</i> , 2015 , 8, 1159-1168	10	22

167	Highly scalable, uniform, and sensitive biosensors based on top-down indium oxide nanoribbons and electronic enzyme-linked immunosorbent assay. <i>Nano Letters</i> , 2015 , 15, 1943-51	11.5	51
166	Large-scale fabrication, 3D tomography, and lithium-ion battery application of porous silicon. <i>Nano Letters</i> , 2014 , 14, 261-8	11.5	189
165	Review of carbon nanotube nanoelectronics and macroelectronics. <i>Semiconductor Science and Technology</i> , 2014 , 29, 073001	1.8	94
164	Deposition, characterization, and thin-film-based chemical sensing of ultra-long chemically synthesized graphene nanoribbons. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7555-8	16.4	89
163	GaAs nanowire array solar cells with axial p-i-n junctions. <i>Nano Letters</i> , 2014 , 14, 3293-303	11.5	142
162	High-performance chemical sensing using Schottky-contacted chemical vapor deposition grown monolayer MoS ₂ transistors. <i>ACS Nano</i> , 2014 , 8, 5304-14	16.7	502
161	Free-standing LiNi _{0.5} Mn _{1.5} O ₄ /carbon nanofiber network film as lightweight and high-power cathode for lithium ion batteries. <i>ACS Nano</i> , 2014 , 8, 4876-82	16.7	52
160	Screw-dislocation-driven growth of two-dimensional few-layer and pyramid-like WSe ₂ by sulfur-assisted chemical vapor deposition. <i>ACS Nano</i> , 2014 , 8, 11543-51	16.7	117
159	Patterning, characterization, and chemical sensing applications of graphene nanoribbon arrays down to 5 nm using helium ion beam lithography. <i>ACS Nano</i> , 2014 , 8, 1538-46	16.7	182
158	Enhanced Fabry-Perot resonance in GaAs nanowires through local field enhancement and surface passivation. <i>Nano Research</i> , 2014 , 7, 1146-1153	10	13
157	Aligned epitaxial SnO ₂ nanowires on sapphire: growth and device applications. <i>Nano Letters</i> , 2014 , 14, 3014-22	11.5	61
156	Large-scale complementary macroelectronics using hybrid integration of carbon nanotubes and IGZO thin-film transistors. <i>Nature Communications</i> , 2014 , 5, 4097	17.4	207
155	Ultrathin Surface Modification by Atomic Layer Deposition on High Voltage Cathode LiNi _{0.5} Mn _{1.5} O ₄ for Lithium Ion Batteries. <i>Energy Technology</i> , 2014 , 2, 159-165	3.5	31
154	Sequential administration of carbon nanotubes and near-infrared radiation for the treatment of gliomas. <i>Frontiers in Oncology</i> , 2014 , 4, 180	5.3	23
153	Screen printing as a scalable and low-cost approach for rigid and flexible thin-film transistors using separated carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 12769-76	16.7	147
152	Charge trapping in aligned single-walled carbon nanotube arrays induced by ionizing radiation exposure. <i>Journal of Applied Physics</i> , 2014 , 115, 054506	2.5	15
151	Optical, electrical, and solar energy-conversion properties of gallium arsenide nanowire-array photoanodes. <i>Energy and Environmental Science</i> , 2013 , 6, 1879	35.4	89
150	Aligned carbon nanotubes: from controlled synthesis to electronic applications. <i>Nanoscale</i> , 2013 , 5, 9483-502	37.5	47

149	Chirality-dependent vapor-phase epitaxial growth and termination of single-wall carbon nanotubes. <i>Nano Letters</i> , 2013 , 13, 4416-21	11.5	67
148	Comparative study of gel-based separated arc-discharge, HiPCO, and CoMoCAT carbon nanotubes for macroelectronic applications. <i>Nano Research</i> , 2013 , 6, 906-920	10	30
147	Coaxial Si/anodic titanium oxide/Si nanotube arrays for lithium-ion battery anodes. <i>Nano Research</i> , 2013 , 6, 182-190	10	26
146	Graphene-oxide-coated LiNi _{0.5} Mn _{1.5} O ₄ as high voltage cathode for lithium ion batteries with high energy density and long cycle life. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4083	13	116
145	Scalable preparation of porous silicon nanoparticles and their application for lithium-ion battery anodes. <i>Nano Research</i> , 2013 , 6, 174-181	10	221
144	Review of chemical vapor deposition of graphene and related applications. <i>Accounts of Chemical Research</i> , 2013 , 46, 2329-39	24.3	1007
143	T-gate aligned nanotube radio frequency transistors and circuits with superior performance. <i>ACS Nano</i> , 2013 , 7, 4343-50	16.7	40
142	Hierarchical silicon nanowires-carbon textiles matrix as a binder-free anode for high-performance advanced lithium-ion batteries. <i>Scientific Reports</i> , 2013 , 3, 1622	4.9	126
141	Top-down Fabricated Polysilicon Nanoribbon Biosensor Chips for Cancer Diagnosis. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1569, 213-218		1
140	High-Performance Organic-Inorganic Hybrid Photodetectors Based on P3HT:CdSe Nanowire Heterojunctions on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , 2013 , 23, 1202-1209	15.6	193
139	Chirality-controlled synthesis of single-wall carbon nanotubes using vapour-phase epitaxy. <i>Nature Communications</i> , 2012 , 3, 1199	17.4	137
138	Electrical and optical characterization of surface passivation in GaAs nanowires. <i>Nano Letters</i> , 2012 , 12, 4484-9	11.5	153
137	Self-aligned T-gate high-purity semiconducting carbon nanotube RF transistors operated in quasi-ballistic transport and quantum capacitance regime. <i>ACS Nano</i> , 2012 , 6, 6936-43	16.7	22
136	Toward optimized light utilization in nanowire arrays using scalable nanosphere lithography and selected area growth. <i>Nano Letters</i> , 2012 , 12, 2839-45	11.5	76
135	Selective synthesis and device applications of semiconducting single-walled carbon nanotubes using isopropyl alcohol as feedstock. <i>ACS Nano</i> , 2012 , 6, 7454-62	16.7	93
134	Rigid/flexible transparent electronics based on separated carbon nanotube thin-film transistors and their application in display electronics. <i>ACS Nano</i> , 2012 , 6, 7412-9	16.7	125
133	Role of self-assembled monolayer passivation in electrical transport properties and flicker noise of nanowire transistors. <i>ACS Nano</i> , 2012 , 6, 7352-61	16.7	45
132	Self-aligned fabrication of graphene RF transistors with T-shaped gate. <i>ACS Nano</i> , 2012 , 6, 3371-6	16.7	54

131	Porous doped silicon nanowires for lithium ion battery anode with long cycle life. <i>Nano Letters</i> , 2012 , 12, 2318-23	11.5	700
130	Vapor trapping growth of single-crystalline graphene flowers: synthesis, morphology, and electronic properties. <i>Nano Letters</i> , 2012 , 12, 2810-6	11.5	169
129	Hierarchical three-dimensional ZnCoO ₄ nanowire arrays/carbon cloth anodes for a novel class of high-performance flexible lithium-ion batteries. <i>Nano Letters</i> , 2012 , 12, 3005-11	11.5	898
128	Selective Contact Anneal Effects on Indium Oxide Nanowire Transistors using Femtosecond Laser. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17147-17153	3.8	13
127	Large scale, highly conductive and patterned transparent films of silver nanowires on arbitrary substrates and their application in touch screens. <i>Nanotechnology</i> , 2011 , 22, 245201	3.4	362
126	Rapid, label-free, electrical whole blood bioassay based on nanobiosensor systems. <i>ACS Nano</i> , 2011 , 5, 9883-91	16.7	63
125	Control of current saturation and threshold voltage shift in indium oxide nanowire transistors with femtosecond laser annealing. <i>ACS Nano</i> , 2011 , 5, 1095-101	16.7	26
124	Indium oxide nanospirals made of kinked nanowires. <i>ACS Nano</i> , 2011 , 5, 2155-61	16.7	50
123	Bulk synthesis of crystalline and crystalline core/amorphous shell silicon nanowires and their application for energy storage. <i>ACS Nano</i> , 2011 , 5, 8383-90	16.7	51
122	Separated carbon nanotube macroelectronics for active matrix organic light-emitting diode displays. <i>Nano Letters</i> , 2011 , 11, 4852-8	11.5	100
121	Fully printed separated carbon nanotube thin film transistor circuits and its application in organic light emitting diode control. <i>Nano Letters</i> , 2011 , 11, 5301-8	11.5	181
120	Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. <i>Nano Research</i> , 2011 , 4, 290-296	10	61
119	Sensitization of hydrothermally grown single crystalline TiO ₂ nanowire array with CdSeS nanocrystals for photovoltaic applications. <i>Nano Research</i> , 2011 , 4, 1181-1190	10	12
118	Electric transport, reversible wettability and chemical sensing of single-crystalline zigzag Zn ₂ SnO ₄ nanowires. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17236		36
117	Carbon nanotube memory by the self-assembly of silicon nanocrystals as charge storage nodes. <i>ACS Nano</i> , 2011 , 5, 7972-7	16.7	17
116	A biomimetic fabricated carbon nanotube synapse for prosthetic applications 2011 ,		13
115	Metal contact engineering and registration-free fabrication of complementary metal-oxide semiconductor integrated circuits using aligned carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 1147-53	16.7	57
114	Air-stable conversion of separated carbon nanotube thin-film transistors from p-type to n-type using atomic layer deposition of high- Γ -oxide and its application in CMOS logic circuits. <i>ACS Nano</i> , 2011 , 5, 3284-92	16.7	131

113	Radio frequency and linearity performance of transistors using high-purity semiconducting carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 4169-76	16.7	67
112	Label-Free, Electrical Biomarker Detection Based on Nanowire Biosensors Utilizing Antibody Mimics as Capture Probes. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1302, 7901		
111	Tailoring the crystal structure of individual silicon nanowires by polarized laser annealing. <i>Nanotechnology</i> , 2011 , 22, 305709	3.4	4
110	Oxygen plasma exposure effects on indium oxide nanowire transistors. <i>Nanotechnology</i> , 2010 , 21, 1452074	3.4	12
109	The race to replace tin-doped indium oxide: which material will win?. <i>ACS Nano</i> , 2010 , 4, 11-4	16.7	701
108	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> , 2010 , 4, 4403-11	16.7	650
107	Importance of controlling nanotube density for highly sensitive and reliable biosensors functional in physiological conditions. <i>ACS Nano</i> , 2010 , 4, 6914-22	16.7	67
106	Macroelectronic integrated circuits using high-performance separated carbon nanotube thin-film transistors. <i>ACS Nano</i> , 2010 , 4, 7123-32	16.7	124
105	Comparison of Graphene Growth on Single-Crystalline and Polycrystalline Ni by Chemical Vapor Deposition. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3101-3107	6.4	285
104	Growth of Aligned Single-Crystalline Rutile TiO ₂ Nanowires on Arbitrary Substrates and Their Application in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7787-7792	3.8	247
103	Continuous, highly flexible, and transparent graphene films by chemical vapor deposition for organic photovoltaics. <i>ACS Nano</i> , 2010 , 4, 2865-73	16.7	1052
102	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> , 2010 , 3, 564-573 ¹⁰		436
101	Inkjet printing of single-walled carbon nanotube/RuO ₂ nanowire supercapacitors on cloth fabrics and flexible substrates. <i>Nano Research</i> , 2010 , 3, 594-603	10	358
100	Synthesis and device applications of high-density aligned carbon nanotubes using low-pressure chemical vapor deposition and stacked multiple transfer. <i>Nano Research</i> , 2010 , 3, 831-842	10	83
99	2,4,6-Trinitrotoluene (TNT) chemical sensing based on aligned single-walled carbon nanotubes and ZnO nanowires. <i>Advanced Materials</i> , 2010 , 22, 1900-4	24	133
98	A nanoelectronic enzyme-linked immunosorbent assay for detection of proteins in physiological solutions. <i>Small</i> , 2010 , 6, 232-8	11	47
97	Top-down lithographic method for inducing strain in carbon nanotubes. <i>Journal of Applied Physics</i> , 2009 , 106, 014306	2.5	3
96	A nanoelectronic nose: a hybrid nanowire/carbon nanotube sensor array with integrated micromachined hotplates for sensitive gas discrimination. <i>Nanotechnology</i> , 2009 , 20, 125503	3.4	68

95	Soft Transfer Printing of Chemically Converted Graphene. <i>Advanced Materials</i> , 2009 , 21, 2098-2102	24	166
94	Rapid and label-free cell detection by metal-cluster-decorated carbon nanotube biosensors. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2967-72	11.8	38
93	Wafer-scale fabrication of separated carbon nanotube thin-film transistors for display applications. <i>Nano Letters</i> , 2009 , 9, 4285-91	11.5	350
92	Scalable light-induced metal to semiconductor conversion of carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 3592-8	11.5	46
91	A calibration method for nanowire biosensors to suppress device-to-device variation. <i>ACS Nano</i> , 2009 , 3, 3969-76	16.7	99
90	CMOS-analogous wafer-scale nanotube-on-insulator approach for submicrometer devices and integrated circuits using aligned nanotubes. <i>Nano Letters</i> , 2009 , 9, 189-97	11.5	144
89	Label-free, electrical detection of the SARS virus N-protein with nanowire biosensors utilizing antibody mimics as capture probes. <i>ACS Nano</i> , 2009 , 3, 1219-24	16.7	170
88	Vapor-solid growth of one-dimensional layer-structured gallium sulfide nanostructures. <i>ACS Nano</i> , 2009 , 3, 1115-20	16.7	99
87	Devices and chemical sensing applications of metal oxide nanowires. <i>Journal of Materials Chemistry</i> , 2009 , 19, 828-839		272
86	Threshold Voltage and On/Off Ratio Tuning for Multiple-Tube Carbon Nanotube FETs. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 4-9	2.6	59
85	Transparent electronics based on transfer printed aligned carbon nanotubes on rigid and flexible substrates. <i>ACS Nano</i> , 2009 , 3, 73-9	16.7	251
84	Flexible and transparent supercapacitor based on In ₂ O ₃ nanowire/carbon nanotube heterogeneous films. <i>Applied Physics Letters</i> , 2009 , 94, 043113	3.4	162
83	Wafer-Scale Growth and Transfer of Aligned Single-Walled Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 498-504	2.6	156
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