Chongwu Zhou

List of Publications by Year
in descending order

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253 papers	38,111 citations	2963 93 h-index	2736 192 g-index
257 all docs	257 docs citations	257 times ranked	38170 citing authors

#	Article	IF	Citations
1	Nanotube Molecular Wires as Chemical Sensors. Science, 2000, 287, 622-625.	6.0	5,712
2	Review of Chemical Vapor Deposition of Graphene and Related Applications. Accounts of Chemical Research, 2013, 46, 2329-2339.	7.6	1,234
3	Continuous, Highly Flexible, and Transparent Graphene Films by Chemical Vapor Deposition for Organic Photovoltaics. ACS Nano, 2010, 4, 2865-2873.	7.3	1,148
4	Reversible electromechanical characteristics of carbon nanotubes underlocal-probe manipulation. Nature, 2000, 405, 769-772.	13.7	1,118
5	Hierarchical Three-Dimensional ZnCo₂O₄ Nanowire Arrays/Carbon Cloth Anodes for a Novel Class of High-Performance Flexible Lithium-Ion Batteries. Nano Letters, 2012, 12, 3005-3011.	4.5	967
6	Transparent, Conductive, and Flexible Carbon Nanotube Films and Their Application in Organic Light-Emitting Diodes. Nano Letters, 2006, 6, 1880-1886.	4.5	965
7	Detection of NO2 down to ppb Levels Using Individual and Multiple In2O3 Nanowire Devices. Nano Letters, 2004, 4, 1919-1924.	4.5	837
8	Porous Doped Silicon Nanowires for Lithium Ion Battery Anode with Long Cycle Life. Nano Letters, 2012, 12, 2318-2323.	4.5	787
9	The Race To Replace Tin-Doped Indium Oxide: Which Material Will Win?. ACS Nano, 2010, 4, 11-14.	7.3	764
10	Preparation and Characterization of Flexible Asymmetric Supercapacitors Based on Transition-Metal-Oxide Nanowire/Single-Walled Carbon Nanotube Hybrid Thin-Film Electrodes. ACS Nano, 2010, 4, 4403-4411.	7.3	729
11	High-Performance Chemical Sensing Using Schottky-Contacted Chemical Vapor Deposition Grown Monolayer MoS₂ Transistors. ACS Nano, 2014, 8, 5304-5314.	7.3	610
12	Black Phosphorus Gas Sensors. ACS Nano, 2015, 9, 5618-5624.	7.3	599
13	Fabrication of fully transparent nanowire transistors for transparent and flexible electronics. Nature Nanotechnology, 2007, 2, 378-384.	15.6	505
14	In2O3 nanowires as chemical sensors. Applied Physics Letters, 2003, 82, 1613-1615.	1.5	479
15	Uniform, highly conductive, and patterned transparent films of a percolating silver nanowire network on rigid and flexible substrates using a dry transfer technique. Nano Research, 2010, 3, 564-573.	5.8	477
16	Inkjet printing of single-walled carbon nanotube/RuO2 nanowire supercapacitors on cloth fabrics and flexible substrates. Nano Research, 2010, 3, 594-603.	5.8	397
17	Large scale, highly conductive and patterned transparent films of silver nanowires on arbitrary substrates and their application in touch screens. Nanotechnology, 2011, 22, 245201.	1.3	397
18	Wafer-Scale Fabrication of Separated Carbon Nanotube Thin-Film Transistors for Display Applications. Nano Letters, 2009, 9, 4285-4291.	4.5	390

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19	Laser Ablation Synthesis and Electron Transport Studies of Tin Oxide Nanowires. Advanced Materials, 2003, 15, 1754-1757.	11.1	388
20	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. ACS Nano, 2018, 12, 11756-11784.	7.3	388
21	Black Arsenicâ€“Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. Advanced Materials, 2015, 27, 4423-4429.	11.1	378
22	Complementary Detection of Prostate-Specific Antigen Using In2O3 Nanowires and Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 12484-12485.	6.6	376
23	Chemical Vapor Deposition Growth of Monolayer WSe₂ with Tunable Device Characteristics and Growth Mechanism Study. ACS Nano, 2015, 9, 6119-6127.	7.3	340
24	Comparison of Graphene Growth on Single-Crystalline and Polycrystalline Ni by Chemical Vapor Deposition. Journal of Physical Chemistry Letters, 2010, 1, 3101-3107.	2.1	328
25	Magnetite (Fe3O4) Coreâ^'Shell Nanowires:â€‰ Synthesis and Magnetoresistance. Nano Letters, 2004, 4, 2151-2155.	4.5	320
26	Template-Free Directional Growth of Single-Walled Carbon Nanotubes on a- and r-Plane Sapphire. Journal of the American Chemical Society, 2005, 127, 5294-5295.	6.6	311
27	Devices and chemical sensing applications of metal oxide nanowires. Journal of Materials Chemistry, 2009, 19, 828-839.	6.7	301
28	Single Crystalline Magnetite Nanotubes. Journal of the American Chemical Society, 2005, 127, 6-7.	6.6	275
29	Scalable preparation of porous silicon nanoparticles and their application for lithium-ion battery anodes. Nano Research, 2013, 6, 174-181.	5.8	271
30	Growth of Aligned Single-Crystalline Rutile TiO₂ Nanowires on Arbitrary Substrates and Their Application in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 7787-7792.	1.5	268
31	Transparent Electronics Based on Transfer Printed Aligned Carbon Nanotubes on Rigid and Flexible Substrates. ACS Nano, 2009, 3, 73-79.	7.3	265
32	Layered P2-Na2/3[Ni1/3Mn2/3]O2 as high-voltage cathode for sodium-ion batteries: The capacity decay mechanism and Al2O3 surface modification. Nano Energy, 2016, 27, 27-34.	8.2	255
33	Mechanical and Electrical Anisotropy of Few-Layer Black Phosphorus. ACS Nano, 2015, 9, 11362-11370.	7.3	247
34	Synthesis, Transfer, and Devices of Single- and Few-Layer Graphene by Chemical Vapor Deposition. IEEE Nanotechnology Magazine, 2009, 8, 135-138.	1.1	241
35	Carbon nanotube field-effect inverters. Applied Physics Letters, 2001, 79, 3329-3331.	1.5	235
36	Large-scale complementary macroelectronics using hybrid integration of carbon nanotubes and IGZO thin-film transistors. Nature Communications, 2014, 5, 4097.	5.8	233

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37	Selective Functionalization of In2O3Nanowire Mat Devices for Biosensing Applications. Journal of the American Chemical Society, 2005, 127, 6922-6923.	6.6	232
38	Electrical measurements of individual semiconducting single-walled carbon nanotubes of various diameters. Applied Physics Letters, 2000, 76, 1597-1599.	1.5	220
39	Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices. Journal of Physical Chemistry B, 1999, 103, 11246-11255.	1.2	216
40	Highâ€Performance Organicâ€Inorganic Hybrid Photodetectors Based on P3HT:CdSe Nanowire Heterojunctions on Rigid and Flexible Substrates. Advanced Functional Materials, 2013, 23, 1202-1209.	7.8	213
41	Large-Scale Fabrication, 3D Tomography, and Lithium-Ion Battery Application of Porous Silicon. Nano Letters, 2014, 14, 261-268.	4.5	213
42	Patterning, Characterization, and Chemical Sensing Applications of Graphene Nanoribbon Arrays Down to 5 nm Using Helium Ion Beam Lithography. ACS Nano, 2014, 8, 1538-1546.	7.3	212
43	Label-Free, Electrical Detection of the SARS Virus N-Protein with Nanowire Biosensors Utilizing Antibody Mimics as Capture Probes. ACS Nano, 2009, 3, 1219-1224.	7.3	203
44	Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. ACS Nano, 2017, 11, 5530-5537.	7.3	201
45	Intrinsic Electrical Properties of Individual Single-Walled Carbon Nanotubes with Small Band Gaps. Physical Review Letters, 2000, 84, 5604-5607.	2.9	197
46	Electronic transport studies of single-crystalline In2O3 nanowires. Applied Physics Letters, 2003, 82, 112-114.	1.5	197
47	Fully Printed Separated Carbon Nanotube Thin Film Transistor Circuits and Its Application in Organic Light Emitting Diode Control. Nano Letters, 2011, 11, 5301-5308.	4.5	189
48	Synthesis and electronic transport studies of CdO nanoneedles. Applied Physics Letters, 2003, 82, 1950-1952.	1.5	186
49	Doping dependent NH3 sensing of indium oxide nanowires. Applied Physics Letters, 2003, 83, 1845-1847.	1.5	185
50	Highly Sensitive and Wearable In₂O₃ Nanoribbon Transistor Biosensors with Integrated On-Chip Gate for Glucose Monitoring in Body Fluids. ACS Nano, 2018, 12, 1170-1178.	7.3	185
51	Electrical and Optical Characterization of Surface Passivation in GaAs Nanowires. Nano Letters, 2012, 12, 4484-4489.	4.5	183
52	Fully Screen-Printed, Large-Area, and Flexible Active-Matrix Electrochromic Displays Using Carbon Nanotube Thin-Film Transistors. ACS Nano, 2016, 10, 9816-9822.	7.3	183
53	Vapor Trapping Growth of Single-Crystalline Graphene Flowers: Synthesis, Morphology, and Electronic Properties. Nano Letters, 2012, 12, 2810-2816.	4.5	180
54	Screen Printing as a Scalable and Low-Cost Approach for Rigid and Flexible Thin-Film Transistors Using Separated Carbon Nanotubes. ACS Nano, 2014, 8, 12769-12776.	7.3	179

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55	Soft Transfer Printing of Chemically Converted Graphene. Advanced Materials, 2009, 21, 2098-2102.	11.1	177
56	Wafer-Scale Growth and Transfer of Aligned Single-Walled Carbon Nanotubes. IEEE Nanotechnology Magazine, 2009, 8, 498-504.	1.1	175
57	Flexible and transparent supercapacitor based on In2O3 nanowire/carbon nanotube heterogeneous films. Applied Physics Letters, 2009, 94, .	1.5	173
58	Chirality-Controlled Synthesis and Applications of Single-Wall Carbon Nanotubes. ACS Nano, 2017, 11, 31-53.	7.3	170
59	GaAs Nanowire Array Solar Cells with Axial pâ€“iâ€“n Junctions. Nano Letters, 2014, 14, 3293-3303.	4.5	168
60	Step-Edge-Guided Nucleation and Growth of Aligned WSe₂ on Sapphire via a Layer-over-Layer Growth Mode. ACS Nano, 2015, 9, 8368-8375.	7.3	168
61	Reversible Semiconducting-to-Metallic Phase Transition in Chemical Vapor Deposition Grown Monolayer WSe₂ and Applications for Devices. ACS Nano, 2015, 9, 7383-7391.	7.3	164
62	CMOS-Analogous Wafer-Scale Nanotube-on-Insulator Approach for Submicrometer Devices and Integrated Circuits Using Aligned Nanotubes. Nano Letters, 2009, 9, 189-197.	4.5	161
63	2,4,6â€Trinitrotoluene (TNT) Chemical Sensing Based on Aligned Singleâ€Walled Carbon Nanotubes and ZnO Nanowires. Advanced Materials, 2010, 22, 1900-1904.	11.1	158
64	Photoconduction studies on GaN nanowire transistors under UV and polarized UV illumination. Chemical Physics Letters, 2004, 389, 176-180.	1.2	157
65	Chirality-controlled synthesis of single-wall carbon nanotubes using vapour-phase epitaxy. Nature Communications, 2012, 3, 1199.	5.8	156
66	Transition Metal Oxide Coreâ"Shell Nanowires:Â Generic Synthesis and Transport Studies. Nano Letters, 2004, 4, 1241-1246.	4.5	154
67	Multilevel memory based on molecular devices. Applied Physics Letters, 2004, 84, 1949-1951.	1.5	152
68	Chemical Sensors and Electronic Noses Based on 1-D Metal Oxide Nanostructures. IEEE Nanotechnology Magazine, 2008, 7, 668-682.	1.1	151
69	Screw-Dislocation-Driven Growth of Two-Dimensional Few-Layer and Pyramid-like WSe₂ by Sulfur-Assisted Chemical Vapor Deposition. ACS Nano, 2014, 8, 11543-11551.	7.3	146
70	Fabrication approach for molecular memory arrays. Applied Physics Letters, 2003, 82, 645-647.	1.5	145
71	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. Nano Letters, 2018, 18, 3172-3179.	4.5	145
72	Air-Stable Conversion of Separated Carbon Nanotube Thin-Film Transistors from p-Type to n-Type Using Atomic Layer Deposition of High-Î° Oxide and Its Application in CMOS Logic Circuits. ACS Nano, 2011, 5, 3284-3292.	7.3	141

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73	Graphene-oxide-coated LiNi0.5Mn1.5O4 as high voltage cathode for lithium ion batteries with high energy density and long cycle life. Journal of Materials Chemistry A, 2013, 1, 4083.	5.2	137
74	Macroelectronic Integrated Circuits Using High-Performance Separated Carbon Nanotube Thin-Film Transistors. ACS Nano, 2010, 4, 7123-7132.	7.3	136
75	Hierarchical silicon nanowires-carbon textiles matrix as a binder-free anode for high-performance advanced lithium-ion batteries. Scientific Reports, 2013, 3, 1622.	1.6	136
76	Rigid/Flexible Transparent Electronics Based on Separated Carbon Nanotube Thin-Film Transistors and Their Application in Display Electronics. ACS Nano, 2012, 6, 7412-7419.	7.3	135
77	High-Performance WSe₂ Field-Effect Transistors via Controlled Formation of In-Plane Heterojunctions. ACS Nano, 2016, 10, 5153-5160.	7.3	135
78	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. Journal of the American Chemical Society, 2016, 138, 15488-15496.	6.6	129
79	Aligned Carbon Nanotube Synaptic Transistors for Large-Scale Neuromorphic Computing. ACS Nano, 2018, 12, 7352-7361.	7.3	128
80	Alkaline metal-doped n-type semiconducting nanotubes as quantum dots. Applied Physics Letters, 2000, 77, 3977-3979.	1.5	126
81	SnO2 coated carbon cloth with surface modification as Na-ion battery anode. Nano Energy, 2015, 16, 399-407.	8.2	123
82	A carbon nanofiber network for stable lithium metal anodes with high Coulombic efficiency and long cycle life. Nano Research, 2016, 9, 3428-3436.	5.8	120
83	A Calibration Method for Nanowire Biosensors to Suppress Device-to-Device Variation. ACS Nano, 2009, 3, 3969-3976.	7.3	118
84	Surface Treatment and Doping Dependence of In2O3 Nanowires as Ammonia Sensors. Journal of Physical Chemistry B, 2003, 107, 12451-12455.	1.2	115
85	Tandem Solar Cells Using GaAs Nanowires on Si: Design, Fabrication, and Observation of Voltage Addition. Nano Letters, 2015, 15, 7217-7224.	4.5	114
86	Vaporâ^'Solid Growth of One-Dimensional Layer-Structured Gallium Sulfide Nanostructures. ACS Nano, 2009, 3, 1115-1120.	7.3	111
87	Separated Carbon Nanotube Macroelectronics for Active Matrix Organic Light-Emitting Diode Displays. Nano Letters, 2011, 11, 4852-4858.	4.5	110
88	Selective Synthesis and Device Applications of Semiconducting Single-Walled Carbon Nanotubes Using Isopropyl Alcohol as Feedstock. ACS Nano, 2012, 6, 7454-7462.	7.3	107
89	Review of carbon nanotube nanoelectronics and macroelectronics. Semiconductor Science and Technology, 2014, 29, 073001.	1.0	106
90	Data Storage Studies on Nanowire Transistors with Self-Assembled Porphyrin Molecules. Journal of Physical Chemistry B, 2004, 108, 9646-9649.	1.2	105

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91	Deposition, Characterization, and Thin-Film-Based Chemical Sensing of Ultra-long Chemically Synthesized Graphene Nanoribbons. Journal of the American Chemical Society, 2014, 136, 7555-7558.	6.6	103
92	Optical, electrical, and solar energy-conversion properties of gallium arsenide nanowire-array photoanodes. Energy and Environmental Science, 2013, 6, 1879.	15.6	102
93	Tellurene Photodetector with High Gain and Wide Bandwidth. ACS Nano, 2020, 14, 303-310.	7.3	101
94	Hierarchical Carbon-Coated Ball-Milled Silicon: Synthesis and Applications in Free-Standing Electrodes and High-Voltage Full Lithium-Ion Batteries. ACS Nano, 2018, 12, 6280-6291.	7.3	99
95	Controllable Reversibility of ansp2tosp3Transition of a Single Wall Nanotube under the Manipulation of an AFM Tip: A Nanoscale Electromechanical Switch?. Physical Review Letters, 2000, 84, 4950-4953.	2.9	96
96	Dynamically controllable polarity modulation of MoTe ₂ field-effect transistors through ultraviolet light and electrostatic activation. Science Advances, 2019, 5, eaav3430.	4.7	96
97	Twoâ€Đimensional Semiconductors: From Materials Preparation to Electronic Applications. Advanced Electronic Materials, 2017, 3, 1700045.	2.6	94
98	Synthesis and device applications of high-density aligned carbon nanotubes using low-pressure chemical vapor deposition and stacked multiple transfer. Nano Research, 2010, 3, 831-842.	5.8	89
99	Synthesis and characterization of single-crystal indium nitride nanowires. Journal of Materials Research, 2004, 19, 423-426.	1.2	88
100	High-Performance Single-Crystalline Arsenic-Doped Indium Oxide Nanowires for Transparent Thin-Film Transistors and Active Matrix Organic Light-Emitting Diode Displays. ACS Nano, 2009, 3, 3383-3390.	7.3	88
101	Redox Sorting of Carbon Nanotubes. Nano Letters, 2015, 15, 1642-1646.	4.5	85
102	Room-Temperature Pressure Synthesis of Layered Black Phosphorusâ€“Graphene Composite for Sodium-Ion Battery Anodes. ACS Nano, 2018, 12, 8323-8329.	7.3	83
103	Nanowire transistors with ferroelectric gate dielectrics: Enhanced performance and memory effects. Applied Physics Letters, 2004, 84, 4553-4555.	1.5	81
104	Novel Nanotube-on-Insulator (NOI) Approach toward Single-Walled Carbon Nanotube Devices. Nano Letters, 2006, 6, 34-39.	4.5	81
105	Nearly Exclusive Growth of Small Diameter Semiconducting Single-Wall Carbon Nanotubes from Organic Chemistry Synthetic End-Cap Molecules. Nano Letters, 2015, 15, 586-595.	4.5	81
106	Toward Optimized Light Utilization in Nanowire Arrays Using Scalable Nanosphere Lithography and Selected Area Growth. Nano Letters, 2012, 12, 2839-2845.	4.5	80
107	Importance of Controlling Nanotube Density for Highly Sensitive and Reliable Biosensors Functional in Physiological Conditions. ACS Nano, 2010, 4, 6914-6922.	7.3	78
108	Silicon(lithiated)â€“sulfur full cells with porous silicon anode shielded by Nafion against polysulfides to achieve high capacity and energy density. Nano Energy, 2016, 19, 68-77.	8.2	77

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109	Red-phosphorus-impregnated carbon nanofibers for sodium-ion batteries and liquefaction of red phosphorus. Nature Communications, 2020, 11, 2520.	5.8	77
110	Chirality-Dependent Vapor-Phase Epitaxial Growth and Termination of Single-Wall Carbon Nanotubes. Nano Letters, 2013, 13, 4416-4421.	4.5	76
111	A nanoelectronic nose: a hybrid nanowire/carbon nanotube sensor array with integrated micromachined hotplates for sensitive gas discrimination. Nanotechnology, 2009, 20, 125503.	1.3	75
112	Threshold Voltage and Onâ€“Off Ratio Tuning for Multiple-Tube Carbon Nanotube FETs. IEEE Nanotechnology Magazine, 2009, 8, 4-9.	1.1	75
113	Rapid, Label-Free, Electrical Whole Blood Bioassay Based on Nanobiosensor Systems. ACS Nano, 2011, 5, 9883-9891.	7.3	74
114	Photoinduced Doping To Enable Tunable and High-Performance Anti-Ambipolar MoTe₂/MoS₂ Heterotransistors. ACS Nano, 2019, 13, 5430-5438.	7.3	73
115	Radio Frequency and Linearity Performance of Transistors Using High-Purity Semiconducting Carbon Nanotubes. ACS Nano, 2011, 5, 4169-4176.	7.3	72
116	Aligned Epitaxial SnO₂ Nanowires on Sapphire: Growth and Device Applications. Nano Letters, 2014, 14, 3014-3022.	4.5	72
117	Fully Printed All-Solid-State Organic Flexible Artificial Synapse for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2019, 11, 16749-16757.	4.0	70
118	Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using In₂O₃ Nanoribbon Biosensors Fabricated Using Shadow Masks. ACS Nano, 2016, 10, 10117-10125.	7.3	69
119	Chemical gating of In2O3 nanowires by organic and biomolecules. Applied Physics Letters, 2003, 83, 4014-4016.	1.5	68
120	Synthesis, Electronic Properties, and Applications of Indium Oxide Nanowires. Annals of the New York Academy of Sciences, 2003, 1006, 104-121.	1.8	67
121	Metal Contact Engineering and Registration-Free Fabrication of Complementary Metal-Oxide Semiconductor Integrated Circuits Using Aligned Carbon Nanotubes. ACS Nano, 2011, 5, 1147-1153.	7.3	66
122	Self-Aligned Fabrication of Graphene RF Transistors with T-Shaped Gate. ACS Nano, 2012, 6, 3371-3376.	7.3	66
123	Nanosignal Processing:Â Stochastic Resonance in Carbon Nanotubes That Detect Subthreshold Signals. Nano Letters, 2003, 3, 1683-1686.	4.5	65
124	Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. Nano Research, 2011, 4, 290-296.	5.8	63
125	High-power lithium ion batteries based on flexible and light-weight cathode of LiNi 0.5 Mn 1.5 O 4 /carbon nanotube film. Nano Energy, 2015, 12, 43-51.	8.2	63
126	Radio Frequency Transistors Using Aligned Semiconducting Carbon Nanotubes with Current-Gain Cutoff Frequency and Maximum Oscillation Frequency Simultaneously Greater than 70 GHz. ACS Nano, 2016, 10, 6782-6790.	7.3	63

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127	Wafer-scalable, aligned carbon nanotube transistors operating at frequencies of over 100â€‰GHz. Nature Electronics, 2019, 2, 530-539.	13.1	62
128	Noise-Enhanced Detection of Subthreshold Signals With Carbon Nanotubes. IEEE Nanotechnology Magazine, 2006, 5, 613-627.	1.1	60
129	Highly Scalable, Uniform, and Sensitive Biosensors Based on Top-Down Indium Oxide Nanoribbons and Electronic Enzyme-Linked Immunosorbent Assay. Nano Letters, 2015, 15, 1943-1951.	4.5	60
130	Functional interlayer of PVDF-HFP and carbon nanofiber for long-life lithium-sulfur batteries. Nano Research, 2018, 11, 3340-3352.	5.8	60
131	Synthesis and Electronic Properties of Individual Single-Walled Carbon Nanotube/Polypyrrole Composite Nanocables. Advanced Materials, 2005, 17, 2727-2732.	11.1	59
132	Giant random telegraph signals in the carbon nanotubes as a single defect probe. Applied Physics Letters, 2005, 86, 163102.	1.5	59
133	Controlled growth of gallium nitride single-crystal nanowires using a chemical vapor deposition method. Journal of Materials Research, 2003, 18, 245-249.	1.2	56
134	Free-Standing LiNi_{0.5}Mn_{1.5}O₄/Carbon Nanofiber Network Film as Lightweight and High-Power Cathode for Lithium Ion Batteries. ACS Nano, 2014, 8, 4876-4882.	7.3	56
135	Indium Oxide Nanospirals Made of Kinked Nanowires. ACS Nano, 2011, 5, 2155-2161.	7.3	55
136	Device study, chemical doping, and logic circuits based on transferred aligned single-walled carbon nanotubes. Applied Physics Letters, 2008, 93, .	1.5	54
137	Black Phosphorus Field-Effect Transistors with Work Function Tunable Contacts. ACS Nano, 2017, 11, 7126-7133.	7.3	54
138	1âˆ•f noise of SnO2 nanowire transistors. Applied Physics Letters, 2008, 92, 243120.	1.5	53
139	Bulk Synthesis of Crystalline and Crystalline Core/Amorphous Shell Silicon Nanowires and Their Application for Energy Storage. ACS Nano, 2011, 5, 8383-8390.	7.3	53
140	Charge Storage Behavior of Nanowire Transistors Functionalized with Bis(terpyridine)âˆ’Fe(II) Molecules:â€‰ Dependence on Molecular Structure. Journal of the American Chemical Society, 2004, 126, 7750-7751.	6.6	52
141	Band engineering of carbon nanotube field-effect transistors via selected area chemical gating. Applied Physics Letters, 2005, 86, 243501.	1.5	52
142	A Nanoelectronic Enzymeâ€Linked Immunosorbent Assay for Detection of Proteins in Physiological Solutions. Small, 2010, 6, 232-238.	5.2	52
143	One-dimensional transport of In2O3 nanowires. Applied Physics Letters, 2005, 86, 213101.	1.5	50
144	Aligned carbon nanotubes: from controlled synthesis to electronic applications. Nanoscale, 2013, 5, 9483.	2.8	50

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145	Scalable Light-Induced Metal to Semiconductor Conversion of Carbon Nanotubes. Nano Letters, 2009, 9, 3592-3598.	4.5	48
146	Role of Self-Assembled Monolayer Passivation in Electrical Transport Properties and Flicker Noise of Nanowire Transistors. ACS Nano, 2012, 6, 7352-7361.	7.3	48
147	Gating individual nanotubes and crosses with scanning probes. Applied Physics Letters, 2000, 76, 2412-2414.	1.5	46
148	T-Gate Aligned Nanotube Radio Frequency Transistors and Circuits with Superior Performance. ACS Nano, 2013, 7, 4343-4350.	7.3	46
149	Flexible Multiplexed In2O3 Nanoribbon Aptamer-Field-Effect Transistors for Biosensing. IScience, 2020, 23, 101469.	1.9	45
150	Pearl-Like ZnS-Decorated InP Nanowire Heterostructures and Their Electric Behaviors. Chemistry of Materials, 2008, 20, 6779-6783.	3.2	44
151	Carbon Nanotube Macroelectronics for Active Matrix Polymer-Dispersed Liquid Crystal Displays. ACS Nano, 2016, 10, 10068-10074.	7.3	44
152	Noise in carbon nanotube field effect transistor. Applied Physics Letters, 2006, 89, 063116.	1.5	43
153	Rapid and label-free cell detection by metal-cluster-decorated carbon nanotube biosensors. Biosensors and Bioelectronics, 2009, 24, 2967-2972.	5.3	43
154	In Situ and Ex Situ TEM Study of Lithiation Behaviours of Porous Silicon Nanostructures. Scientific Reports, 2016, 6, 31334.	1.6	43
155	Imperceptible and Ultraflexible p-Type Transistors and Macroelectronics Based on Carbon Nanotubes. ACS Nano, 2016, 10, 199-206.	7.3	43
156	Review of Electronics Based on Single-Walled Carbon Nanotubes. Topics in Current Chemistry, 2017, 375, 75.	3.0	43
157	Synthesis of Aligned Single-Walled Nanotubes Using Catalysts Defined by Nanosphere Lithography. Journal of the American Chemical Society, 2007, 129, 10104-10105.	6.6	42
158	pâ€Type Fieldâ€Effect Transistors of Singleâ€Crystal Zinc Telluride Nanobelts. Angewandte Chemie - International Edition, 2008, 47, 9469-9471.	7.2	41
159	Synthesis, Characterization, and Device Application of Antimony-Substituted Violet Phosphorus: A Layered Material. ACS Nano, 2017, 11, 4105-4113.	7.3	41
160	Ultrathin Surface Modification by Atomic Layer Deposition on High Voltage Cathode LiNi_{0.5}Mn_{1.5}O₄ for Lithium Ion Batteries. Energy Technology, 2014, 2, 159-165.	1.8	40
161	Single-Crystalline and Twinned Zn₃P₂ Nanowires: Synthesis, Characterization, and Electronic Properties. Journal of Physical Chemistry C, 2008, 112, 16405-16410.	1.5	39
162	Electric transport, reversible wettability and chemical sensing of single-crystalline zigzag Zn2SnO4 nanowires. Journal of Materials Chemistry, 2011, 21, 17236.	6.7	39

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163	Comparative study of gel-based separated arcdischarge, HiPCO, and CoMoCAT carbon nanotubes for macroelectronic applications. Nano Research, 2013, 6, 906-920.	5.8	39
164	Top-Contact Self-Aligned Printing for High-Performance Carbon Nanotube Thin-Film Transistors with Sub-Micron Channel Length. ACS Nano, 2017, 11, 2008-2014.	7.3	38
165	Complementary response of In2O3 nanowires and carbon nanotubes to low-density lipoprotein chemical gating. Applied Physics Letters, 2005, 86, 103903.	1.5	37
166	Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. Advanced Functional Materials, 2017, 27, 1602873.	7.8	37
167	High-performance metal oxide nanowire chemical sensors with integrated micromachined hotplates. Applied Physics Letters, 2008, 92, .	1.5	35
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