

# Chongwu Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

253  
papers

38,111  
citations

2802

94  
h-index

2747

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. <i>Science</i> , 2000, 287, 622-625.   | 12.6 | 5,712     |
| 2  | Review of Chemical Vapor Deposition of Graphene and Related Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 2329-2339.  | 15.6 | 1,234     |
| 3  | Continuous, Highly Flexible, and Transparent Graphene Films by Chemical Vapor Deposition for Organic Photovoltaics. <i>ACS Nano</i> , 2010, 4, 2865-2873.  | 14.6 | 1,148     |
| 4  | Reversible electromechanical characteristics of carbon nanotubes under local-probe manipulation. <i>Nature</i> , 2000, 405, 769-772.   | 27.8 | 1,118     |
| 5  | Hierarchical Three-Dimensional ZnCo <sub>2</sub> O <sub>4</sub> Nanowire Arrays/Carbon Cloth Anodes for a Novel Class of High-Performance Flexible Lithium-Ion Batteries. <i>Nano Letters</i> , 2012, 12, 3005-3011. | 9.1  | 967       |
| 6  | Transparent, Conductive, and Flexible Carbon Nanotube Films and Their Application in Organic Light-Emitting Diodes. <i>Nano Letters</i> , 2006, 6, 1880-1886.  | 9.1  | 965       |
| 7  | 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> , 2004, 4, 1919-1924.   | 9.1  | 837       |
| 8  | Porous Doped Silicon Nanowires for Lithium Ion Battery Anode with Long Cycle Life. <i>Nano Letters</i> , 2012, 12, 2318-2323.  | 9.1  | 787       |
| 9  | The Race To Replace Tin-Doped Indium Oxide: Which Material Will Win?. <i>ACS Nano</i> , 2010, 4, 11-14.  | 14.6 | 764       |
| 10 | 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, 4403-4411.    | 14.6 | 729       |
| 11 | High-Performance Chemical Sensing Using Schottky-Contacted Chemical Vapor Deposition Grown Monolayer MoS <sub>2</sub> Transistors. <i>ACS Nano</i> , 2014, 8, 5304-5314.   | 14.6 | 610       |
| 12 | Black Phosphorus Gas Sensors. <i>ACS Nano</i> , 2015, 9, 5618-5624.  | 14.6 | 599       |
| 13 | Fabrication of fully transparent nanowire transistors for transparent and flexible electronics. <i>Nature Nanotechnology</i> , 2007, 2, 378-384.   | 31.5 | 505       |
| 14 | In <sub>2</sub> O <sub>3</sub> nanowires as chemical sensors. <i>Applied Physics Letters</i> , 2003, 82, 1613-1615.  | 3.3  | 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. <i>Nano Research</i> , 2010, 3, 564-573.       | 10.4 | 477       |
| 16 | Inkjet printing of single-walled carbon nanotube/RuO <sub>2</sub> nanowire supercapacitors on cloth fabrics and flexible substrates. <i>Nano Research</i> , 2010, 3, 594-603.  | 10.4 | 397       |
| 17 | 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.                         | 2.6  | 397       |
| 18 | Wafer-Scale Fabrication of Separated Carbon Nanotube Thin-Film Transistors for Display Applications. <i>Nano Letters</i> , 2009, 9, 4285-4291.   | 9.1  | 390       |

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|----|--|------|-----------|
| 19 | Laser Ablation Synthesis and Electron Transport Studies of Tin Oxide Nanowires. <i>Advanced Materials</i> , 2003, 15, 1754-1757.   | 21.0 | 388       |
| 20 | Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018, 12, 11756-11784.   | 14.6 | 388       |
| 21 | Black Arsenic—Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , 2015, 27, 4423-4429.  | 21.0 | 378       |
| 22 | 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> , 2005, 127, 12484-12485.  | 13.7 | 376       |
| 23 | Chemical Vapor Deposition Growth of Monolayer WSe <sub>2</sub> with Tunable Device Characteristics and Growth Mechanism Study. <i>ACS Nano</i> , 2015, 9, 6119-6127.   | 14.6 | 340       |
| 24 | 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.  | 4.6  | 328       |
| 25 | Magnetite (Fe <sub>3</sub> O <sub>4</sub> ) Core-Shell Nanowires: Synthesis and Magnetoresistance. <i>Nano Letters</i> , 2004, 4, 2151-2155.   | 9.1  | 320       |
| 26 | Template-Free Directional Growth of Single-Walled Carbon Nanotubes on a- and r-Plane Sapphire. <i>Journal of the American Chemical Society</i> , 2005, 127, 5294-5295.   | 13.7 | 311       |
| 27 | Devices and chemical sensing applications of metal oxide nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 828-839.   | 6.7  | 301       |
| 28 | Single Crystalline Magnetite Nanotubes. <i>Journal of the American Chemical Society</i> , 2005, 127, 6-7.  | 13.7 | 275       |
| 29 | Scalable preparation of porous silicon nanoparticles and their application for lithium-ion battery anodes. <i>Nano Research</i> , 2013, 6, 174-181.  | 10.4 | 271       |
| 30 | 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> , 2010, 114, 7787-7792.   | 3.1  | 268       |
| 31 | Transparent Electronics Based on Transfer Printed Aligned Carbon Nanotubes on Rigid and Flexible Substrates. <i>ACS Nano</i> , 2009, 3, 73-79.   | 14.6 | 265       |
| 32 | Layered P <sub>2</sub> -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> , 2016, 27, 27-34. | 16.0 | 255       |
| 33 | Mechanical and Electrical Anisotropy of Few-Layer Black Phosphorus. <i>ACS Nano</i> , 2015, 9, 11362-11370.  | 14.6 | 247       |
| 34 | Synthesis, Transfer, and Devices of Single- and Few-Layer Graphene by Chemical Vapor Deposition. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 135-138.   | 2.0  | 241       |
| 35 | Carbon nanotube field-effect inverters. <i>Applied Physics Letters</i> , 2001, 79, 3329-3331.  | 3.3  | 235       |
| 36 | Large-scale complementary macroelectronics using hybrid integration of carbon nanotubes and IGZO thin-film transistors. <i>Nature Communications</i> , 2014, 5, 4097.  | 12.8 | 233       |

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|----|--|------|-----------|
| 37 | 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> , 2005, 127, 6922-6923.                  | 13.7 | 232       |
| 38 | Electrical measurements of individual semiconducting single-walled carbon nanotubes of various diameters. <i>Applied Physics Letters</i> , 2000, 76, 1597-1599.  | 3.3  | 220       |
| 39 | Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices. <i>Journal of Physical Chemistry B</i> , 1999, 103, 11246-11255.   | 2.6  | 216       |
| 40 | 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.       | 14.9 | 213       |
| 41 | Large-Scale Fabrication, 3D Tomography, and Lithium-Ion Battery Application of Porous Silicon. <i>Nano Letters</i> , 2014, 14, 261-268.  | 9.1  | 213       |
| 42 | 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, 1538-1546.                      | 14.6 | 212       |
| 43 | 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, 1219-1224.                                 | 14.6 | 203       |
| 44 | 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.  | 14.6 | 201       |
| 45 | Intrinsic Electrical Properties of Individual Single-Walled Carbon Nanotubes with Small Band Gaps. <i>Physical Review Letters</i> , 2000, 84, 5604-5607.   | 7.8  | 197       |
| 46 | Electronic transport studies of single-crystalline In <sub>2</sub> O <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , 2003, 82, 112-114.   | 3.3  | 197       |
| 47 | Fully Printed Separated Carbon Nanotube Thin Film Transistor Circuits and Its Application in Organic Light Emitting Diode Control. <i>Nano Letters</i> , 2011, 11, 5301-5308.                            | 9.1  | 189       |
| 48 | Synthesis and electronic transport studies of CdO nanoneedles. <i>Applied Physics Letters</i> , 2003, 82, 1950-1952.   | 3.3  | 186       |
| 49 | Doping dependent NH <sub>3</sub> sensing of indium oxide nanowires. <i>Applied Physics Letters</i> , 2003, 83, 1845-1847.  | 3.3  | 185       |
| 50 | Highly Sensitive and Wearable In <sub>2</sub> O <sub>3</sub> Nanoribbon Transistor Biosensors with Integrated On-Chip Gate for Glucose Monitoring in Body Fluids. <i>ACS Nano</i> , 2018, 12, 1170-1178. | 14.6 | 185       |
| 51 | Electrical and Optical Characterization of Surface Passivation in GaAs Nanowires. <i>Nano Letters</i> , 2012, 12, 4484-4489.   | 9.1  | 183       |
| 52 | 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.                                 | 14.6 | 183       |
| 53 | Vapor Trapping Growth of Single-Crystalline Graphene Flowers: Synthesis, Morphology, and Electronic Properties. <i>Nano Letters</i> , 2012, 12, 2810-2816.   | 9.1  | 180       |
| 54 | 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, 12769-12776.                               | 14.6 | 179       |

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|----|--|------|-----------|
| 55 | Soft Transfer Printing of Chemically Converted Graphene. <i>Advanced Materials</i> , 2009, 21, 2098-2102.  | 21.0 | 177       |
| 56 | Wafer-Scale Growth and Transfer of Aligned Single-Walled Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 498-504.   | 2.0  | 175       |
| 57 | Flexible and transparent supercapacitor based on In <sub>2</sub> O <sub>3</sub> nanowire/carbon nanotube heterogeneous films. <i>Applied Physics Letters</i> , 2009, 94, .   | 3.3  | 173       |
| 58 | Chirality-Controlled Synthesis and Applications of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2017, 11, 31-53.  | 14.6 | 170       |
| 59 | GaAs Nanowire Array Solar Cells with Axial p-n Junctions. <i>Nano Letters</i> , 2014, 14, 3293-3303.   | 9.1  | 168       |
| 60 | Step-Edge-Guided Nucleation and Growth of Aligned WSe <sub>2</sub> on Sapphire <i>via</i> a Layer-over-Layer Growth Mode. <i>ACS Nano</i> , 2015, 9, 8368-8375.  | 14.6 | 168       |
| 61 | Reversible Semiconducting-to-Metallic Phase Transition in Chemical Vapor Deposition Grown Monolayer WSe <sub>2</sub> and Applications for Devices. <i>ACS Nano</i> , 2015, 9, 7383-7391.   | 14.6 | 164       |
| 62 | CMOS-Analogous Wafer-Scale Nanotube-on-Insulator Approach for Submicrometer Devices and Integrated Circuits Using Aligned Nanotubes. <i>Nano Letters</i> , 2009, 9, 189-197.   | 9.1  | 161       |
| 63 | 2,4,6-Trinitrotoluene (TNT) Chemical Sensing Based on Aligned Single-Walled Carbon Nanotubes and ZnO Nanowires. <i>Advanced Materials</i> , 2010, 22, 1900-1904.   | 21.0 | 158       |
| 64 | Photoconduction studies on GaN nanowire transistors under UV and polarized UV illumination. <i>Chemical Physics Letters</i> , 2004, 389, 176-180.  | 2.6  | 157       |
| 65 | Chirality-controlled synthesis of single-wall carbon nanotubes using vapour-phase epitaxy. <i>Nature Communications</i> , 2012, 3, 1199.   | 12.8 | 156       |
| 66 | Transition Metal Oxide Core-Shell Nanowires: A Generic Synthesis and Transport Studies. <i>Nano Letters</i> , 2004, 4, 1241-1246.  | 9.1  | 154       |
| 67 | Multilevel memory based on molecular devices. <i>Applied Physics Letters</i> , 2004, 84, 1949-1951.  | 3.3  | 152       |
| 68 | Chemical Sensors and Electronic Noses Based on 1-D Metal Oxide Nanostructures. <i>IEEE Nanotechnology Magazine</i> , 2008, 7, 668-682.   | 2.0  | 151       |
| 69 | 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> , 2014, 8, 11543-11551.   | 14.6 | 146       |
| 70 | Fabrication approach for molecular memory arrays. <i>Applied Physics Letters</i> , 2003, 82, 645-647.  | 3.3  | 145       |
| 71 | Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. <i>Nano Letters</i> , 2018, 18, 3172-3179.   | 9.1  | 145       |
| 72 | 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> , 2011, 5, 3284-3292. | 14.6 | 141       |

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|----|---|------|-----------|
| 73 | 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> , 2013, 1, 4083. | 10.3 | 137       |
| 74 | Macroelectronic Integrated Circuits Using High-Performance Separated Carbon Nanotube Thin-Film Transistors. <i>ACS Nano</i> , 2010, 4, 7123-7132.   | 14.6 | 136       |
| 75 | 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.  | 3.3  | 136       |
| 76 | Rigid/Flexible Transparent Electronics Based on Separated Carbon Nanotube Thin-Film Transistors and Their Application in Display Electronics. <i>ACS Nano</i> , 2012, 6, 7412-7419.   | 14.6 | 135       |
| 77 | High-Performance WSe <sub>2</sub> Field-Effect Transistors via Controlled Formation of In-Plane Heterojunctions. <i>ACS Nano</i> , 2016, 10, 5153-5160.   | 14.6 | 135       |
| 78 | 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.   | 13.7 | 129       |
| 79 | Aligned Carbon Nanotube Synaptic Transistors for Large-Scale Neuromorphic Computing. <i>ACS Nano</i> , 2018, 12, 7352-7361.   | 14.6 | 128       |
| 80 | Alkaline metal-doped n-type semiconducting nanotubes as quantum dots. <i>Applied Physics Letters</i> , 2000, 77, 3977-3979.   | 3.3  | 126       |
| 81 | SnO <sub>2</sub> coated carbon cloth with surface modification as Na-ion battery anode. <i>Nano Energy</i> , 2015, 16, 399-407.   | 16.0 | 123       |
| 82 | 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.   | 10.4 | 120       |
| 83 | A Calibration Method for Nanowire Biosensors to Suppress Device-to-Device Variation. <i>ACS Nano</i> , 2009, 3, 3969-3976.  | 14.6 | 118       |
| 84 | 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> , 2003, 107, 12451-12455.  | 2.6  | 115       |
| 85 | Tandem Solar Cells Using GaAs Nanowires on Si: Design, Fabrication, and Observation of Voltage Addition. <i>Nano Letters</i> , 2015, 15, 7217-7224.   | 9.1  | 114       |
| 86 | Vapor-Solid Growth of One-Dimensional Layer-Structured Gallium Sulfide Nanostructures. <i>ACS Nano</i> , 2009, 3, 1115-1120.  | 14.6 | 111       |
| 87 | Separated Carbon Nanotube Macroelectronics for Active Matrix Organic Light-Emitting Diode Displays. <i>Nano Letters</i> , 2011, 11, 4852-4858.  | 9.1  | 110       |
| 88 | Selective Synthesis and Device Applications of Semiconducting Single-Walled Carbon Nanotubes Using Isopropyl Alcohol as Feedstock. <i>ACS Nano</i> , 2012, 6, 7454-7462.  | 14.6 | 107       |
| 89 | Review of carbon nanotube nanoelectronics and macroelectronics. <i>Semiconductor Science and Technology</i> , 2014, 29, 073001.   | 2.0  | 106       |
| 90 | Data Storage Studies on Nanowire Transistors with Self-Assembled Porphyrin Molecules. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9646-9649.  | 2.6  | 105       |

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|-----|---|------|-----------|
| 91  | 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, 7555-7558.         | 13.7 | 103       |
| 92  | Optical, electrical, and solar energy-conversion properties of gallium arsenide nanowire-array photoanodes. <i>Energy and Environmental Science</i> , 2013, 6, 1879.  | 30.8 | 102       |
| 93  | Tellurene Photodetector with High Gain and Wide Bandwidth. <i>ACS Nano</i> , 2020, 14, 303-310.   | 14.6 | 101       |
| 94  | 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.                    | 14.6 | 99        |
| 95  | Controllable Reversibility of a Transition of a Single Wall Nanotube under the Manipulation of an AFM Tip: A Nanoscale Electromechanical Switch?. <i>Physical Review Letters</i> , 2000, 84, 4950-4953.       | 7.8  | 96        |
| 96  | Dynamically controllable polarity modulation of MoTe <sub>2</sub> field-effect transistors through ultraviolet light and electrostatic activation. <i>Science Advances</i> , 2019, 5, eaav3430.               | 10.3 | 96        |
| 97  | Two-Dimensional Semiconductors: From Materials Preparation to Electronic Applications. <i>Advanced Electronic Materials</i> , 2017, 3, 1700045.   | 5.1  | 94        |
| 98  | 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.               | 10.4 | 89        |
| 99  | Synthesis and characterization of single-crystal indium nitride nanowires. <i>Journal of Materials Research</i> , 2004, 19, 423-426.  | 2.6  | 88        |
| 100 | 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> , 2009, 3, 3383-3390. | 14.6 | 88        |
| 101 | Redox Sorting of Carbon Nanotubes. <i>Nano Letters</i> , 2015, 15, 1642-1646.   | 9.1  | 85        |
| 102 | Room-Temperature Pressure Synthesis of Layered Black Phosphorus-Graphene Composite for Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2018, 12, 8323-8329.  | 14.6 | 83        |
| 103 | Nanowire transistors with ferroelectric gate dielectrics: Enhanced performance and memory effects. <i>Applied Physics Letters</i> , 2004, 84, 4553-4555.  | 3.3  | 81        |
| 104 | Novel Nanotube-on-Insulator (NOI) Approach toward Single-Walled Carbon Nanotube Devices. <i>Nano Letters</i> , 2006, 6, 34-39.  | 9.1  | 81        |
| 105 | Nearly Exclusive Growth of Small Diameter Semiconducting Single-Wall Carbon Nanotubes from Organic Chemistry Synthetic End-Cap Molecules. <i>Nano Letters</i> , 2015, 15, 586-595.                            | 9.1  | 81        |
| 106 | Toward Optimized Light Utilization in Nanowire Arrays Using Scalable Nanosphere Lithography and Selected Area Growth. <i>Nano Letters</i> , 2012, 12, 2839-2845.  | 9.1  | 80        |
| 107 | Importance of Controlling Nanotube Density for Highly Sensitive and Reliable Biosensors Functional in Physiological Conditions. <i>ACS Nano</i> , 2010, 4, 6914-6922.   | 14.6 | 78        |
| 108 | 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.                     | 16.0 | 77        |

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|-----|---|------|-----------|
| 109 | Red-phosphorus-impregnated carbon nanofibers for sodium-ion batteries and liquefaction of red phosphorus. <i>Nature Communications</i> , 2020, 11, 2520.  | 12.8 | 77        |
| 110 | Chirality-Dependent Vapor-Phase Epitaxial Growth and Termination of Single-Wall Carbon Nanotubes. <i>Nano Letters</i> , 2013, 13, 4416-4421.  | 9.1  | 76        |
| 111 | A nanoelectronic nose: a hybrid nanowire/carbon nanotube sensor array with integrated micromachined hotplates for sensitive gas discrimination. <i>Nanotechnology</i> , 2009, 20, 125503.                                 | 2.6  | 75        |
| 112 | Threshold Voltage and On-Off Ratio Tuning for Multiple-Tube Carbon Nanotube FETs. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 4-9.   | 2.0  | 75        |
| 113 | Rapid, Label-Free, Electrical Whole Blood Bioassay Based on Nanobiosensor Systems. <i>ACS Nano</i> , 2011, 5, 9883-9891.  | 14.6 | 74        |
| 114 | Photoinduced Doping To Enable Tunable and High-Performance Anti-Ambipolar $\text{MoTe}_2/\text{MoS}_2$ Heterotransistors. <i>ACS Nano</i> , 2019, 13, 5430-5438.  | 14.6 | 73        |
| 115 | Radio Frequency and Linearity Performance of Transistors Using High-Purity Semiconducting Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 4169-4176.   | 14.6 | 72        |
| 116 | Aligned Epitaxial $\text{SnO}_2$ Nanowires on Sapphire: Growth and Device Applications. <i>Nano Letters</i> , 2014, 14, 3014-3022.  | 9.1  | 72        |
| 117 | Fully Printed All-Solid-State Organic Flexible Artificial Synapse for Neuromorphic Computing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16749-16757.  | 8.0  | 70        |
| 118 | Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using $\text{In}_2\text{O}_3$ Nanoribbon Biosensors Fabricated Using Shadow Masks. <i>ACS Nano</i> , 2016, 10, 10117-10125.                | 14.6 | 69        |
| 119 | Chemical gating of $\text{In}_2\text{O}_3$ nanowires by organic and biomolecules. <i>Applied Physics Letters</i> , 2003, 83, 4014-4016.   | 3.3  | 68        |
| 120 | Synthesis, Electronic Properties, and Applications of Indium Oxide Nanowires. <i>Annals of the New York Academy of Sciences</i> , 2003, 1006, 104-121.  | 3.8  | 67        |
| 121 | Metal Contact Engineering and Registration-Free Fabrication of Complementary Metal-Oxide Semiconductor Integrated Circuits Using Aligned Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 1147-1153.                          | 14.6 | 66        |
| 122 | Self-Aligned Fabrication of Graphene RF Transistors with T-Shaped Gate. <i>ACS Nano</i> , 2012, 6, 3371-3376.   | 14.6 | 66        |
| 123 | Nanosignal Processing: Stochastic Resonance in Carbon Nanotubes That Detect Subthreshold Signals. <i>Nano Letters</i> , 2003, 3, 1683-1686.   | 9.1  | 65        |
| 124 | Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. <i>Nano Research</i> , 2011, 4, 290-296.  | 10.4 | 63        |
| 125 | High-power lithium ion batteries based on flexible and light-weight cathode of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ /carbon nanotube film. <i>Nano Energy</i> , 2015, 12, 43-51.                                  | 16.0 | 63        |
| 126 | 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, 6782-6790. | 14.6 | 63        |



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|-----|--|------|-----------|
| 127 | Wafer-scalable, aligned carbon nanotube transistors operating at frequencies of over 100 GHz. <i>Nature Electronics</i> , 2019, 2, 530-539.  | 26.0 | 62        |
| 128 | Noise-Enhanced Detection of Subthreshold Signals With Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , 2006, 5, 613-627.  | 2.0  | 60        |
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