

Kaili Jiang

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.

220
papers

13,639
citations

58
h-index

112
g-index

230
ext. papers

15,003
ext. citations

10.1
avg, IF

6.35
L-index

#	Paper	IF	Citations
220	Chirality distribution of single-walled carbon nanotubes grown from gold nanoparticles. <i>Carbon</i> , 2022 , 192, 259-264	10.4	1
219	6 nm super-resolution optical transmission and scattering spectroscopic imaging of carbon nanotubes using a nanometer-scale white light source. <i>Nature Communications</i> , 2021 , 12, 6868	17.4	5
218	Extreme mechanical anisotropy in diamond with preferentially oriented nanotwin bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
217	Toward an Intelligent Synthesis: Monitoring and Intervening in the Catalytic Growth of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17607-17614	16.4	1
216	On-chip torsion balances with femtonewton force resolution at room temperature enabled by carbon nanotube and graphene. <i>Science Advances</i> , 2021 , 7,	14.3	1
215	Spray coating of a perfect absorber based on carbon nanotube multiscale composites. <i>Carbon</i> , 2021 , 178, 616-624	10.4	6
214	Presence of s-Wave Pairing in Josephson Junctions Made of Twisted Ultrathin Bi ₂ Sr ₂ CaCu ₂ O _{8+x} Flakes. <i>Physical Review X</i> , 2021 , 11,	9.1	5
213	Visualizing nonlinear resonance in nanomechanical systems via single-electron tunneling. <i>Nano Research</i> , 2021 , 14, 1156-1161	10	2
212	Superbroad-band actively tunable acoustic metamaterials driven from poly (ethylene terephthalate)/Carbon nanotube nanocomposite membranes. <i>Nano Research</i> , 2021 , 14, 100-107	10	2
211	High-temperature epitaxial graphite deposition on macroscopic superaligned carbon nanotube structures by a one-step self-heating method. <i>Carbon</i> , 2021 , 171, 837-844	10.4	0
210	Monolithic superaligned carbon nanotube composite with integrated rewriting, actuating and sensing multifunctions. <i>Nano Research</i> , 2021 , 14, 2456	10	4
209	Carbon-nanotube-templated carbon nanofibers with improved mechanical performance. <i>Journal of Applied Physics</i> , 2021 , 129, 044303	2.5	0
208	Wafer-scale freestanding vanadium dioxide film. <i>Science Advances</i> , 2021 , 7, eabk3438	14.3	6
207	The Influence of Carbon Nanotube's Conductivity and Diameter on Its Thermionic Electron Emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000069	1.6	
206	Optical Phonon Scattering Dominated Transport in Individual Suspended Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000103	1.3	
205	A flexible, multifunctional, active terahertz modulator with an ultra-low triggering threshold. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10213-10220	7.1	9
204	Direct laser patterning of two-dimensional lateral transition metal disulfide-oxide-disulfide heterostructures for ultrasensitive sensors. <i>Nano Research</i> , 2020 , 13, 2035-2043	10	8

203	Bidirectional micro-actuators based on eccentric coaxial composite oxide nanofiber. <i>Nano Research</i> , 2020 , 13, 2451-2459	10	1
202	Mixed-Dimensional Vertical Point pn Junctions. <i>ACS Nano</i> , 2020 , 14, 3181-3189	16.7	10
201	Broadband omnidirectional perfect absorber based on carbon nanotube films. <i>Carbon</i> , 2020 , 161, 510-516	16.4	6
200	Flexible and free-standing hetero-electrocatalyst of high-valence-cation doped MoS ₂ /MoO ₃ /CNT foam with synergistically enhanced hydrogen evolution reaction catalytic activity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14944-14954	13	13
199	High-throughput methods for evaluating the homogeneity of carbon nanotubes and graphene. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 403001	3	2
198	Optically Induced Phase Change for Magnetoresistance Modulation. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900104	4.3	8
197	Bifunctional NbS ₂ -Based Asymmetric Heterostructure for Lateral and Vertical Electronic Devices. <i>ACS Nano</i> , 2020 , 14, 175-184	16.7	32
196	Preparation and enhanced photoelectrocatalytic properties of a three-dimensional TiO ₂ -Au porous structure fabricated using superaligned carbon nanotube films. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 31963-31975	6.7	4
195	The Influence of Carbon Nanotubes' Conductivity and Diameter on Its Thermionic Electron Emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2070048	1.6	
194	Infrared micro-detectors with high sensitivity and high response speed using VO ₂ -coated helical carbon nanocoils. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12095-12103	7.1	16
193	Superionic Modulation of Polymethylmethacrylate-Assisted Suspended Few-Layer Graphene Nanocomposites for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7600-7606	9.5	4
192	Continuous, Ultra-lightweight, and Multipurpose Super-aligned Carbon Nanotube Tapes Viable over a Wide Range of Temperatures. <i>Nano Letters</i> , 2019 , 19, 6756-6764	11.5	9
191	Amorphous MoS ₂ Photodetector with Ultra-Broadband Response. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1314-1321	4	39
190	High temperature performance of coaxial h-BN/CNT wires above 1,000 °C: Thermionic electron emission and thermally activated conductivity. <i>Nano Research</i> , 2019 , 12, 1855-1861	10	6
189	Emission Enhancement from CdSe/ZnS Quantum Dots Induced by Strong Localized Surface Plasmonic Resonances without Damping. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2113-2120	6.4	6
188	Flexible Mid-Infrared Radiation Modulator with Multilayer Graphene Thin Film by Ionic Liquid Gating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13538-13544	9.5	18
187	Electrical control of spatial resolution in mixed-dimensional heterostructured photodetectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6586-6593	11.5	14
186	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019 , 12, 1105-1113	10	25

185	Sub-10 nm Monolayer MoS Transistors Using Single-Walled Carbon Nanotubes as an Evaporating Mask. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11612-11617	9.5	15
184	Efficient Inorganic Cesium Lead Mixed-Halide Perovskite Solar Cells Prepared by Flash-Evaporation Printing. <i>Energy Technology</i> , 2019 , 7, 1800986	3.5	4
183	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. <i>Nature Catalysis</i> , 2018 , 1, 326-331	36.5	42
182	Enhanced performance of lithium-sulfur batteries with an ultrathin and lightweight MoS ₂ /carbon nanotube interlayer. <i>Journal of Power Sources</i> , 2018 , 389, 169-177	8.9	85
181	CO ₂ oxidation of carbon nanotubes for lithium-sulfur batteries with improved electrochemical performance. <i>Carbon</i> , 2018 , 132, 370-379	10.4	36
180	All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706777	15.6	203
179	Free-Standing, Binder-Free Titania/Super-Aligned Carbon Nanotube Anodes for Flexible and Fast-Charging Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3426-3433	8.3	22
178	Perovskite Solar Cells: All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells (Adv. Funct. Mater. 11/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870069	15.6	2
177	MnO ₂ nanoparticles anchored on carbon nanotubes with hybrid supercapacitor-battery behavior for ultrafast lithium storage. <i>Carbon</i> , 2018 , 139, 145-155	10.4	58
176	Ultrathin HfO ₂ -modified carbon nanotube films as efficient polysulfide barriers for Li-S batteries. <i>Carbon</i> , 2018 , 139, 896-905	10.4	18
175	Laser-Induced Flash-Evaporation Printing CH ₃ NH ₃ PbI ₃ Thin Films for High-Performance Planar Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26206-26212	9.5	7
174	Multifunctional super-aligned carbon nanotube/polyimide composite film heaters and actuators. <i>Carbon</i> , 2018 , 139, 1136-1143	10.4	53
173	Superconductor-Insulator Transitions in Exfoliated BiSrCaCuO Flakes. <i>Nano Letters</i> , 2018 , 18, 5660-5665	11.5	35
172	Intelligent identification of two-dimensional nanostructures by machine-learning optical microscopy. <i>Nano Research</i> , 2018 , 11, 6316-6324	10	31
171	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31384-31393	9.5	54
170	Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 19972-19978	7.7	37
169	TiO ₂ -Nanocoated Black Phosphorus Electrodes with Improved Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36058-36066	9.5	15
168	Stressed carbon nanotube devices for high tunability, high quality factor, single mode GHz resonators. <i>Nano Research</i> , 2018 , 11, 5812-5822	10	5

167	Photo-driven nanoactuators based on carbon nanocoils and vanadium dioxide bimorphs. <i>Nanoscale</i> , 2018 , 10, 11158-11164	7.7	21
166	Flexible, transparent and highly sensitive SERS substrates with cross-nanoporous structures for fast on-site detection. <i>Nanoscale</i> , 2018 , 10, 15195-15204	7.7	42
165	Three-Dimensional Carbon Nanotube/Transition-Metal Oxide Sponges as Composite Electrodes with Enhanced Electrochemical Performance. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2997-3005	5.6	13
164	Crystalline multiwall carbon nanotubes and their application as a field emission electron source. <i>Nanotechnology</i> , 2018 , 29, 345601	3.4	3
163	Quantitative characterization of nanoindentation properties of CVI gradient SiC ceramic into CNT arrays. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 196-202	5.7	6
162	Carbon Nanotube Film Gate in Vacuum Electronic Devices. <i>Nano Letters</i> , 2018 , 18, 4691-4696	11.5	6
161	Coherent Phonon Rabi Oscillations with a High-Frequency Carbon Nanotube Phonon Cavity. <i>Nano Letters</i> , 2017 , 17, 915-921	11.5	24
160	Sandwich-structured cathodes with cross-stacked carbon nanotube films as conductive layers for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4047-4057	13	9
159	Scanning electron microscopy imaging of single-walled carbon nanotubes on substrates. <i>Nano Research</i> , 2017 , 10, 1804-1818	10	10
158	Epitaxial Growth of Aligned and Continuous Carbon Nanofibers from Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 1257-1263	16.7	17
157	Inverse Hysteresis and Ultrasmall Hysteresis Thin-Film Transistors Fabricated Using Sputtered Dielectrics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600483	6.4	7
156	Flexible and transparent strain sensors based on super-aligned carbon nanotube films. <i>Nanoscale</i> , 2017 , 9, 6716-6723	7.7	80
155	Li-S Batteries: Ultrathin MnO ₂ /Graphene Oxide/Carbon Nanotube Interlayer as Efficient Polysulfide-Trapping Shield for High-Performance LiS Batteries (Adv. Funct. Mater. 18/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
154	Influence of Asymmetric Contact Form on Contact Resistance and Schottky Barrier, and Corresponding Applications of Diode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18945-18955	9.5	16
153	Facile growth of vertically-aligned graphene nanosheets via thermal CVD: The experimental and theoretical investigations. <i>Carbon</i> , 2017 , 121, 1-9	10.4	43
152	Self-Expansion Construction of Ultralight Carbon Nanotube Aerogels with a 3D and Hierarchical Cellular Structure. <i>Small</i> , 2017 , 13, 1700966	11	9
151	Ultrathin MnO ₂ /Graphene Oxide/Carbon Nanotube Interlayer as Efficient Polysulfide-Trapping Shield for High-Performance LiS Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1606663	15.6	228
150	Preparation and infrared response properties of vanadium dioxide nanowire/carbon nanotube composite film. <i>Journal of Materials Science</i> , 2017 , 52, 7224-7231	4.3	5

149	Super-aligned carbon nanotube films with a thin metal coating as highly conductive and ultralight current collectors for lithium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 351, 160-168	8.9	18
148	SWCNT-MoS ₂ -SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1604469	24	26
147	Flexible, All-Inorganic Actuators Based on Vanadium Dioxide and Carbon Nanotube Bimorphs. <i>Nano Letters</i> , 2017 , 17, 421-428	11.5	70
146	Direct discrimination between semiconducting and metallic single-walled carbon nanotubes with high spatial resolution by SEM. <i>Nano Research</i> , 2017 , 10, 1896-1902	10	10
145	Carbon-nanotube sponges enabling highly efficient and reliable cell inactivation by low-voltage electroporation. <i>Environmental Science: Nano</i> , 2017 , 4, 2010-2017	7.1	39
144	Carbon-Nanotube-Confined Vertical Heterostructures with Asymmetric Contacts. <i>Advanced Materials</i> , 2017 , 29, 1702942	24	14
143	Highly Sensitive, Uniform, and Reproducible Surface-Enhanced Raman Spectroscopy Substrate with Nanometer-Scale Quasi-periodic Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32369-32376 ²¹	9.5	21
142	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017 , 3, e1603231	14.3	18
141	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with All-Inorganic Charge Contacts. <i>Advanced Functional Materials</i> , 2017 , 27, 1703068	15.6	108
140	Graphene welded carbon nanotube crossbars for biaxial strain sensors. <i>Carbon</i> , 2017 , 123, 786-793	10.4	36
139	Perovskite photodetectors prepared by flash evaporation printing. <i>RSC Advances</i> , 2017 , 7, 34795-34800	3.7	7
138	Flash-evaporation printing methodology for perovskite thin films. <i>NPG Asia Materials</i> , 2017 , 9, e395-e395 ^{0.3}	0.3	12
137	Self-assembly of 3D Carbon Nanotube Sponges: A Simple and Controllable Way to Build Macroscopic and Ultralight Porous Architectures. <i>Advanced Materials</i> , 2017 , 29, 1603549	24	58
136	Parametric strong mode-coupling in carbon nanotube mechanical resonators. <i>Nanoscale</i> , 2016 , 8, 14809-14813	13	14
135	Radiation effects and radiation hardness solutions for single-walled carbon nanotube-based thin film transistors and logic devices. <i>Carbon</i> , 2016 , 108, 363-371	10.4	17
134	Sharp-Tip Silver Nanowires Mounted on Cantilevers for High-Aspect-Ratio High-Resolution Imaging. <i>Nano Letters</i> , 2016 , 16, 6896-6902	11.5	19
133	Observation of Charge Generation and Transfer during CVD Growth of Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 4102-9	11.5	23
132	Three-Dimensional Flexible Complementary Metal-Oxide-Semiconductor Logic Circuits Based On Two-Layer Stacks of Single-Walled Carbon Nanotube Networks. <i>ACS Nano</i> , 2016 , 10, 2193-202	16.7	47

131	Cross-stacked carbon nanotube film as an additional built-in current collector and adsorption layer for high-performance lithium sulfur batteries. <i>Nanotechnology</i> , 2016 , 27, 075401	3.4	16
130	A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. <i>ACS Central Science</i> , 2016 , 2, 169-74	16.8	272
129	Cross-stacked superaligned carbon nanotube electrodes for efficient hole conductor-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5569-5577	13	82
128	Sulfur Embedded in a Mesoporous Carbon Nanotube Network as a Binder-Free Electrode for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016 , 10, 1300-8	16.7	176
127	Mesoporous Li ₄ Ti ₅ O ₁₂ nanoclusters anchored on super-aligned carbon nanotubes as high performance electrodes for lithium ion batteries. <i>Nanoscale</i> , 2016 , 8, 617-25	7.7	37
126	Binder-free polymer encapsulated sulfur/carbon nanotube composite cathodes for high performance lithium batteries. <i>Carbon</i> , 2016 , 96, 1053-1059	10.4	59
125	Dielectric-Like Behavior of Graphene in Au Plasmon Resonator. <i>Nanoscale Research Letters</i> , 2016 , 11, 541	5	1
124	Strongly Coupled Nanotube Electromechanical Resonators. <i>Nano Letters</i> , 2016 , 16, 5456-62	11.5	43
123	Interface dipole enhancement effect and enhanced Rayleigh scattering. <i>Nano Research</i> , 2015 , 8, 303-319	10	11
122	True-color real-time imaging and spectroscopy of carbon nanotubes on substrates using enhanced Rayleigh scattering. <i>Nano Research</i> , 2015 , 8, 2721-2732	10	31
121	Freestanding macroscopic metal-oxide nanotube films derived from carbon nanotube film templates. <i>Nano Research</i> , 2015 , 8, 2024-2032	10	4
120	Silicene nanomesh. <i>Scientific Reports</i> , 2015 , 5, 9075	4.9	36
119	Ultra-stretchable conductors based on buckled super-aligned carbon nanotube films. <i>Nanoscale</i> , 2015 , 7, 10178-85	7.7	48
118	Load characteristics of a suspended carbon nanotube film heater and the fabrication of a fast-response thermochromic display prototype. <i>ACS Nano</i> , 2015 , 9, 3753-9	16.7	30
117	Nanocarbon/Metal Oxide Hybrids for Lithium Ion Batteries 2015 , 87-118		
116	Grain-boundary-dependent CO ₂ electroreduction activity. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4606-9	16.4	456
115	Positive and Negative Effects of Carbon Nanotubes on the Hydrogen Sorption Kinetics of Magnesium. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25282-25290	3.8	24
114	Reversibility of Noble Metal-Catalyzed Aprotic Li-O ₂ Batteries. <i>Nano Letters</i> , 2015 , 15, 8084-90	11.5	139

113	Fabrication of air-stable n-type carbon nanotube thin-film transistors on flexible substrates using bilayer dielectrics. <i>Nanoscale</i> , 2015 , 7, 17693-701	7.7	24
112	Large area nanoscale metal meshes for use as transparent conductive layers. <i>Nanoscale</i> , 2015 , 7, 16508-1657	7.7	7
111	Imaging of soft material with carbon nanotube tip using near-field scanning microwave microscopy. <i>Ultramicroscopy</i> , 2015 , 148, 75-80	3.1	6
110	Monolayer charge-neutral graphene on platinum with extremely weak electron-phonon coupling. <i>Physical Review B</i> , 2015 , 92,	3.3	11
109	Study of Carbon Nanotubes as Etching Masks and Related Applications in the Surface Modification of GaAs-based Light-Emitting Diodes. <i>Small</i> , 2015 , 11, 4111-6	11	8
108	Demonstration of nonvolatile multilevel memory in ambipolar carbon nanotube thin-film transistors. <i>Applied Physics Express</i> , 2015 , 8, 065101	2.4	1
107	Fast Adaptive Thermal Camouflage Based on Flexible VO ₂ /Graphene/CNT Thin Films. <i>Nano Letters</i> , 2015 , 15, 8365-70	11.5	180
106	Super-aligned carbon nanotube/graphene hybrid materials as a framework for sulfur cathodes in high performance lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5305-5312	13	106
105	Large-strain, multiform movements from designable electrothermal actuators based on large highly anisotropic carbon nanotube sheets. <i>ACS Nano</i> , 2015 , 9, 409-18	16.7	133
104	Ice-assisted transfer of carbon nanotube arrays. <i>Nano Letters</i> , 2015 , 15, 1843-8	11.5	9
103	Synergistic effect of manganese oxide nanoparticles and graphene nanosheets in composite anodes for lithium ion batteries. <i>Materials Research Express</i> , 2015 , 2, 015503	1.7	1
102	Heating graphene to incandescence and the measurement of its work function by the thermionic emission method. <i>Nano Research</i> , 2014 , 7, 553-560	10	45
101	Entrapping electrode materials within ultrathin carbon nanotube network for flexible thin film lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 20010-20016	3.7	37
100	Effects of carbon nanotubes on the dehydrogenation behavior of magnesium hydride at relatively low temperatures. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16369-16372	13	17
99	Trap-state-dominated suppression of electron conduction in carbon nanotube thin-film transistors. <i>ACS Nano</i> , 2014 , 8, 9597-605	16.7	31
98	Vapor-condensation-assisted optical microscopy for ultralong carbon nanotubes and other nanostructures. <i>Nano Letters</i> , 2014 , 14, 3527-33	11.5	26
97	Metal-film-assisted ultra-clean transfer of single-walled carbon nanotubes. <i>Nano Research</i> , 2014 , 7, 981-989	9.8	15
96	New insight in understanding oxygen reduction and evolution in solid-state lithium-oxygen batteries using an in situ environmental scanning electron microscope. <i>Nano Letters</i> , 2014 , 14, 4245-9	11.5	91

95	Diameter distribution control of single-walled carbon nanotubes by etching ferritin nanoparticles. <i>Applied Physics Express</i> , 2014 , 7, 055102	2.4	4
94	Mesoporous Li ₄ Ti ₅ O ₁₂ nanoclusters as high performance negative electrodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 248, 265-272	8.9	59
93	Enhanced performance of graphene transistor with ion-gel top gate. <i>Carbon</i> , 2014 , 68, 480-486	10.4	20
92	Mn ₃ O ₄ nanoparticles anchored on continuous carbon nanotube network as superior anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 249, 463-469	8.9	59
91	Sulfur nanocrystals confined in carbon nanotube network as a binder-free electrode for high-performance lithium sulfur batteries. <i>Nano Letters</i> , 2014 , 14, 4044-9	11.5	244
90	Applications of carbon nanotubes in high performance lithium ion batteries. <i>Frontiers of Physics</i> , 2014 , 9, 351-369	3.7	39
89	Cycle and rate performance of chemically modified super-aligned carbon nanotube electrodes for lithium ion batteries. <i>Carbon</i> , 2014 , 69, 444-451	10.4	27
88	Enhanced optical output power of blue light-emitting diodes with quasi-aligned gold nanoparticles. <i>Nanoscale Research Letters</i> , 2014 , 9, 7	5	16
87	Hybrid super-aligned carbon nanotube/carbon black conductive networks: A strategy to improve both electrical conductivity and capacity for lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 233, 209-215	8.9	42
86	Enhanced rate capabilities of Co ₃ O ₄ /carbon nanotube anodes for lithium ion battery applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11121	13	46
85	Evaluating bandgap distributions of carbon nanotubes via scanning electron microscopy imaging of the Schottky barriers. <i>Nano Letters</i> , 2013 , 13, 5556-62	11.5	22
84	Excitation of Surface Plasmon Resonance in Composite Structures Based on Single-Layer Superaligned Carbon Nanotube Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23190-23197	3.8	12
83	The dependence of graphene Raman D-band on carrier density. <i>Nano Letters</i> , 2013 , 13, 6170-5	11.5	94
82	Development of an ultra-thin film comprised of a graphene membrane and carbon nanotube vein support. <i>Nature Communications</i> , 2013 , 4, 2920	17.4	64
81	In situ synthesized carbon nanotube networks on a microcantilever for sensitive detection of explosive vapors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 141-148	8.5	24
80	Thermoacoustic chips with carbon nanotube thin yarn arrays. <i>Nano Letters</i> , 2013 , 13, 4795-801	11.5	57
79	Modeling and optimization of ambipolar graphene transistors in the diffusive limit. <i>Journal of Applied Physics</i> , 2013 , 114, 164508	2.5	1
78	Conformal Fe ₃ O ₄ sheath on aligned carbon nanotube scaffolds as high-performance anodes for lithium ion batteries. <i>Nano Letters</i> , 2013 , 13, 818-23	11.5	268

77	High-strength composite yarns derived from oxygen plasma modified super-aligned carbon nanotube arrays. <i>Nano Research</i> , 2013 , 6, 208-215	10	32
76	Super-Aligned Carbon Nanotube Films as Current Collectors for Lightweight and Flexible Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 846-853	15.6	223
75	Sensitivity limits and scaling of bioelectronic graphene transducers. <i>Nano Letters</i> , 2013 , 13, 2902-7	11.5	30
74	Fabrication of all-carbon nanotube electronic devices on flexible substrates through CVD and transfer methods. <i>Advanced Materials</i> , 2013 , 25, 6050-6	24	20
73	A vacuum sensor using field emitters made by multiwalled carbon nanotube yarns. <i>Vacuum</i> , 2012 , 86, 885-888	3.7	23
72	Anisotropic interfacial friction of inclined multiwall carbon nanotube array surface. <i>Carbon</i> , 2012 , 50, 5372-5379	10.4	19
71	Efficient fabrication of carbon nanotube micro tip arrays by tailoring cross-stacked carbon nanotube sheets. <i>Nano Letters</i> , 2012 , 12, 2071-6	11.5	11
70	A display module implemented by the fast high-temperature response of carbon nanotube thin yarns. <i>Nano Letters</i> , 2012 , 12, 2548-53	11.5	9
69	Highly catalytic cross-stacked superaligned carbon nanotube sheets for iodine-free dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22756		26
68	Direct identification of metallic and semiconducting single-walled carbon nanotubes in scanning electron microscopy. <i>Nano Letters</i> , 2012 , 12, 4095-101	11.5	53
67	New-type planar field emission display with superaligned carbon nanotube yarn emitter. <i>Nano Letters</i> , 2012 , 12, 2391-6	11.5	81
66	Binder-free LiCoO ₂ /carbon nanotube cathodes for high-performance lithium ion batteries. <i>Advanced Materials</i> , 2012 , 24, 2294-8	24	243
65	Fabrication and processing of high-strength densely packed carbon nanotube yarns without solution processes. <i>Nanoscale</i> , 2012 , 4, 3389-93	7.7	28
64	Formation of free-standing carbon nanotube array on super-aligned carbon nanotube film and its field emission properties. <i>Nano Research</i> , 2012 , 5, 421-426	10	7
63	Aligned carbon nanotube coating on polyethylene surface formed by microwave radiation. <i>Composites Science and Technology</i> , 2011 , 72, 85-90	8.6	20
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