

Kaili Jiang

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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	Nanotechnology: spinning continuous carbon nanotube yarns. <i>Nature</i> , 2002 , 419, 801	50.4	926
219	Spinning and Processing Continuous Yarns from 4-Inch Wafer Scale Super-Aligned Carbon Nanotube Arrays. <i>Advanced Materials</i> , 2006 , 18, 1505-1510	24	512
218	Grain-boundary-dependent CO ₂ electroreduction activity. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4606-9	16.4	456
217	Fabrication of ultralong and electrically uniform single-walled carbon nanotubes on clean substrates. <i>Nano Letters</i> , 2009 , 9, 3137-41	11.5	441
216	Cross-Stacked Carbon Nanotube Sheets Uniformly Loaded with SnO ₂ Nanoparticles: A Novel Binder-Free and High-Capacity Anode Material for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2009 , 21, 2299-2304	24	422
215	Flexible, stretchable, transparent carbon nanotube thin film loudspeakers. <i>Nano Letters</i> , 2008 , 8, 4539-4545	11.5	408
214	Superaligned carbon nanotube arrays, films, and yarns: a road to applications. <i>Advanced Materials</i> , 2011 , 23, 1154-61	24	349
213	Flexible, Stretchable, Transparent Conducting Films Made from Superaligned Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010 , 20, 885-891	15.6	328
212	Protein microarrays with carbon nanotubes as multicolor Raman labels. <i>Nature Biotechnology</i> , 2008 , 26, 1285-92	44.5	297
211	Controlled fabrication of high-quality carbon nanoscrolls from monolayer graphene. <i>Nano Letters</i> , 2009 , 9, 2565-70	11.5	276
210	A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. <i>ACS Central Science</i> , 2016 , 2, 169-74	16.8	272
209	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
208	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
207	Binder-free LiCoO ₂ /carbon nanotube cathodes for high-performance lithium ion batteries. <i>Advanced Materials</i> , 2012 , 24, 2294-8	24	243
206	Controlled growth of super-aligned carbon nanotube arrays for spinning continuous unidirectional sheets with tunable physical properties. <i>Nano Letters</i> , 2008 , 8, 700-5	11.5	239
205	Multiplexed multicolor Raman imaging of live cells with isotopically modified single walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13540-1	16.4	233
204	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

203	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
202	Scratch-resistant, highly conductive, and high-strength carbon nanotube-based composite yarns. <i>ACS Nano</i> , 2010 , 4, 5827-34	16.7	217
201	All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706777	15.6	203
200	Carbon nanotube yarns with high tensile strength made by a twisting and shrinking method. <i>Nanotechnology</i> , 2010 , 21, 045708	3.4	192
199	Fast Adaptive Thermal Camouflage Based on Flexible VO ₂ /Graphene/CNT Thin Films. <i>Nano Letters</i> , 2015 , 15, 8365-70	11.5	180
198	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
197	Carbon nanotube/epoxy composites fabricated by resin transfer molding. <i>Carbon</i> , 2010 , 48, 260-266	10.4	175
196	Measuring the work function of carbon nanotubes with thermionic method. <i>Nano Letters</i> , 2008 , 8, 647-51	11.5	169
195	Highly sensitive surface-enhanced Raman scattering substrate made from superaligned carbon nanotubes. <i>Nano Letters</i> , 2010 , 10, 1747-53	11.5	146
194	Cross-Stacked Superaligned Carbon Nanotube Films for Transparent and Stretchable Conductors. <i>Advanced Functional Materials</i> , 2011 , 21, 2721-2728	15.6	142
193	Reversibility of Noble Metal-Catalyzed Aprotic Li-O ₂ Batteries. <i>Nano Letters</i> , 2015 , 15, 8084-90	11.5	139
192	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
191	A growth mark method for studying growth mechanism of carbon nanotube arrays. <i>Carbon</i> , 2005 , 43, 2850-2856	10.4	131
190	Multiplexed Five-Color Molecular Imaging of Cancer Cells and Tumor Tissues with Carbon Nanotube Raman Tags in the Near-Infrared. <i>Nano Research</i> , 2010 , 3, 222-233	10	118
189	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with All-Inorganic Charge Contacts. <i>Advanced Functional Materials</i> , 2017 , 27, 1703068	15.6	108
188	Orientation-Controlled Growth of Single-Crystal Silicon-Nanowire Arrays. <i>Advanced Materials</i> , 2005 , 17, 56-61	24	108
187	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
186	Carbon-nanotube-film microheater on a polyethylene terephthalate substrate and its application in thermochromic displays. <i>Small</i> , 2011 , 7, 732-6	11	95

185	Thermionic emission and work function of multiwalled carbon nanotube yarns. <i>Physical Review B</i> , 2006 , 73,	3.3	95
184	The dependence of graphene Raman D-band on carrier density. <i>Nano Letters</i> , 2013 , 13, 6170-5	11.5	94
183	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
182	Super-aligned carbon nanotube films as aligning layers and transparent electrodes for liquid crystal displays. <i>Carbon</i> , 2010 , 48, 1876-1879	10.4	88
181	In Situ TEM observation of the gasification and growth of carbon nanotubes using iron catalysts. <i>Nano Research</i> , 2011 , 4, 767-779	10	86
180	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
179	Preparation of single-walled carbon nanotube fiber coating for solid-phase microextraction of organochlorine pesticides in lake water and wastewater. <i>Journal of Separation Science</i> , 2007 , 30, 2138-43	3.4	85
178	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
177	New-type planar field emission display with superaligned carbon nanotube yarn emitter. <i>Nano Letters</i> , 2012 , 12, 2391-6	11.5	81
176	Flexible and transparent strain sensors based on super-aligned carbon nanotube films. <i>Nanoscale</i> , 2017 , 9, 6716-6723	7.7	80
175	Fast High-Temperature Response of Carbon Nanotube Film and Its Application as an Incandescent Display. <i>Advanced Materials</i> , 2009 , 21, 3563-3566	24	77
174	High-performance supercapacitors using a nanoporous current collector made from super-aligned carbon nanotubes. <i>Nanotechnology</i> , 2010 , 21, 345701	3.4	75
173	Fabrication and properties of aligned multiwalled carbon nanotube-reinforced epoxy composites. <i>Journal of Materials Research</i> , 2008 , 23, 2975-2983	2.5	74
172	Polarized incandescent light emission from carbon nanotubes. <i>Applied Physics Letters</i> , 2003 , 82, 1763-1765	3.4	72
171	Flexible, All-Inorganic Actuators Based on Vanadium Dioxide and Carbon Nanotube Bimorphs. <i>Nano Letters</i> , 2017 , 17, 421-428	11.5	70
170	Tip cooling effect and failure mechanism of field-emitting carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 64-8	11.5	70
169	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
168	Efficient fabrication of field electron emitters from the multiwalled carbon nanotube yarns. <i>Applied Physics Letters</i> , 2006 , 89, 063101	3.4	63

167	Binder-free polymer encapsulated sulfur/carbon nanotube composite cathodes for high performance lithium batteries. <i>Carbon</i> , 2016 , 96, 1053-1059	10.4	59
166	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
165	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
164	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
163	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
162	Thermoacoustic chips with carbon nanotube thin yarn arrays. <i>Nano Letters</i> , 2013 , 13, 4795-801	11.5	57
161	High frequency response of carbon nanotube thin film speaker in gases. <i>Journal of Applied Physics</i> , 2011 , 110, 084311	2.5	56
160	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
159	Multifunctional super-aligned carbon nanotube/polyimide composite film heaters and actuators. <i>Carbon</i> , 2018 , 139, 1136-1143	10.4	53
158	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
157	Superaligned carbon nanotube grid for high resolution transmission electron microscopy of nanomaterials. <i>Nano Letters</i> , 2008 , 8, 2564-9	11.5	53
156	Comparative studies of multiwalled carbon nanotube sheets before and after shrinking. <i>Physical Review B</i> , 2007 , 76,	3.3	51
155	Vacuum-Breakdown-Induced Needle-Shaped Ends of Multiwalled Carbon Nanotube Yarns and Their Field Emission Applications. <i>Nano Letters</i> , 2007 , 7, 3792-3797	11.5	50
154	Ultra-stretchable conductors based on buckled super-aligned carbon nanotube films. <i>Nanoscale</i> , 2015 , 7, 10178-85	7.7	48
153	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
152	Transition of single-walled carbon nanotubes from metallic to semiconducting in field-effect transistors by hydrogen plasma treatment. <i>Nano Letters</i> , 2007 , 7, 1622-5	11.5	47
151	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
150	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

149	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
148	Strongly Coupled Nanotube Electromechanical Resonators. <i>Nano Letters</i> , 2016 , 16, 5456-62	11.5	43
147	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. <i>Nature Catalysis</i> , 2018 , 1, 326-331	36.5	42
146	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
145	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
144	Amorphous MoS ₂ Photodetector with Ultra-Broadband Response. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1314-1321	4	39
143	Applications of carbon nanotubes in high performance lithium ion batteries. <i>Frontiers of Physics</i> , 2014 , 9, 351-369	3.7	39
142	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
141	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
140	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
139	Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 19972-19978	7.7	37
138	Silicene nanomesh. <i>Scientific Reports</i> , 2015 , 5, 9075	4.9	36
137	CO ₂ oxidation of carbon nanotubes for lithium-sulfur batteries with improved electrochemical performance. <i>Carbon</i> , 2018 , 132, 370-379	10.4	36
136	Graphene welded carbon nanotube crossbars for biaxial strain sensors. <i>Carbon</i> , 2017 , 123, 786-793	10.4	36
135	LaB ₆ tip-modified multiwalled carbon nanotube as high quality field emission electron source. <i>Applied Physics Letters</i> , 2006 , 89, 203112	3.4	36
134	Superconductor-Insulator Transitions in Exfoliated BiSrCaCuO Flakes. <i>Nano Letters</i> , 2018 , 18, 5660-5665	11.5	35
133	Controlled Termination of the Growth of Vertically Aligned Carbon Nanotube Arrays. <i>Advanced Materials</i> , 2007 , 19, 975-978	24	35
132	A polarized infrared thermal detector made from super-aligned multiwalled carbon nanotube films. <i>Nanotechnology</i> , 2011 , 22, 025502	3.4	34

131	High-strength composite yarns derived from oxygen plasma modified super-aligned carbon nanotube arrays. <i>Nano Research</i> , 2013 , 6, 208-215	10	32
130	Bifunctional NbS-Based Asymmetric Heterostructure for Lateral and Vertical Electronic Devices. <i>ACS Nano</i> , 2020 , 14, 175-184	16.7	32
129	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
128	Intelligent identification of two-dimensional nanostructures by machine-learning optical microscopy. <i>Nano Research</i> , 2018 , 11, 6316-6324	10	31
127	Trap-state-dominated suppression of electron conduction in carbon nanotube thin-film transistors. <i>ACS Nano</i> , 2014 , 8, 9597-605	16.7	31
126	Periodically striped films produced from super-aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2009 , 20, 335705	3.4	31
125	A vapor-liquid-solid model for chemical vapor deposition growth of carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1494-504	1.3	31
124	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
123	Sensitivity limits and scaling of bioelectronic graphene transducers. <i>Nano Letters</i> , 2013 , 13, 2902-7	11.5	30
122	Thermal Analysis Study of the Growth Kinetics of Carbon Nanotubes and Epitaxial Graphene Layers on Them. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9623-9631	3.8	30
121	Fabrication and processing of high-strength densely packed carbon nanotube yarns without solution processes. <i>Nanoscale</i> , 2012 , 4, 3389-93	7.7	28
120	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
119	SWCNT-MoS-SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1604469	24	26
118	Vapor-condensation-assisted optical microscopy for ultralong carbon nanotubes and other nanostructures. <i>Nano Letters</i> , 2014 , 14, 3527-33	11.5	26
117	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
116	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019 , 12, 1105-1113	10	25
115	Barium-functionalized multiwalled carbon nanotube yarns as low-work-function thermionic cathodes. <i>Applied Physics Letters</i> , 2008 , 92, 153108	3.4	25
114	Coherent Phonon Rabi Oscillations with a High-Frequency Carbon Nanotube Phonon Cavity. <i>Nano Letters</i> , 2017 , 17, 915-921	11.5	24

113	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
112	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
111	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
110	Observation of Charge Generation and Transfer during CVD Growth of Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 4102-9	11.5	23
109	A vacuum sensor using field emitters made by multiwalled carbon nanotube yarns. <i>Vacuum</i> , 2012 , 86, 885-888	3.7	23
108	Breaking single-walled carbon nanotube bundles by Joule heating. <i>Applied Physics Letters</i> , 2008 , 93, 023118	3.18	23
107	Effect of carbon deposits on the reactor wall during the growth of multi-walled carbon nanotube arrays. <i>Carbon</i> , 2007 , 45, 2379-2387	10.4	23
106	Laser direct writing carbon nanotube arrays on transparent substrates. <i>Applied Physics Letters</i> , 2007 , 90, 133108	3.4	23
105	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
104	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
103	Measuring the stress in field-emitting carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 1994-1998	3.4	22
102	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
101	Growth mechanism of Y-junctions and related carbon nanotube junctions synthesized by Au-catalyzed chemical vapor deposition. <i>Carbon</i> , 2008 , 46, 440-444	10.4	21
100	Photo-driven nanoactuators based on carbon nanocoils and vanadium dioxide bimorphs. <i>Nanoscale</i> , 2018 , 10, 11158-11164	7.7	21
99	Enhanced performance of graphene transistor with ion-gel top gate. <i>Carbon</i> , 2014 , 68, 480-486	10.4	20
98	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
97	Aligned carbon nanotube coating on polyethylene surface formed by microwave radiation. <i>Composites Science and Technology</i> , 2011 , 72, 85-90	8.6	20
96	Shape-controlled synthesis of silver nanostructures. <i>Nanotechnology</i> , 2005 , 16, 2412-4	3.4	20

95	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
94	Anisotropic interfacial friction of inclined multiwall carbon nanotube array surface. <i>Carbon</i> , 2012 , 50, 5372-5379	10.4	19
93	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
92	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
91	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
90	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017 , 3, e1603231	14.3	18
89	Epitaxial Growth of Aligned and Continuous Carbon Nanofibers from Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 1257-1263	16.7	17
88	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
87	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
86	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
85	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
84	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
83	Enhanced optical output power of blue light-emitting diodes with quasi-aligned gold nanoparticles. <i>Nanoscale Research Letters</i> , 2014 , 9, 7	5	16
82	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
81	Metal-film-assisted ultra-clean transfer of single-walled carbon nanotubes. <i>Nano Research</i> , 2014 , 7, 981-989		15
80	Scanning focused laser activation of carbon nanotube cathodes for field emission flat panel displays. <i>Nanotechnology</i> , 2008 , 19, 135703	3.4	15
79	TiO ₂ -Nanocoated Black Phosphorus Electrodes with Improved Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36058-36066	9.5	15
78	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

77	Parametric strong mode-coupling in carbon nanotube mechanical resonators. <i>Nanoscale</i> , 2016 , 8, 14809-14813	14	14
76	Carbon-Nanotube-Confined Vertical Heterostructures with Asymmetric Contacts. <i>Advanced Materials</i> , 2017 , 29, 1702942	24	14
75	Flexible and free-standing hetero-electrocatalyst of high-valence-cation doped MoS ₂ /MoO ₂ /CNT foam with synergistically enhanced hydrogen evolution reaction catalytic activity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14944-14954	13	13
74	In situ fabrication of HfC-decorated carbon nanotube yarns and their field-emission properties. <i>Carbon</i> , 2010 , 48, 531-537	10.4	13
73	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
72	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
71	Flash-evaporation printing methodology for perovskite thin films. <i>NPG Asia Materials</i> , 2017 , 9, e395-e395	10.3	12
70	A cylindrical rod ultrasonic motor with 1 mm diameter and its application in endoscopic OCT. <i>Science Bulletin</i> , 2005 , 50, 826-830		12
69	Interface dipole enhancement effect and enhanced Rayleigh scattering. <i>Nano Research</i> , 2015 , 8, 303-319	10	11
68	Monolayer charge-neutral graphene on platinum with extremely weak electron-phonon coupling. <i>Physical Review B</i> , 2015 , 92,	3.3	11
67	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
66	Field emission behavior study of multiwalled carbon nanotube yarn under the influence of adsorbents. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 736-739	1.3	11
65	Scaled fabrication of single-nanotube-tipped ends from carbon nanotube micro-yarns and their field emission applications. <i>Nanotechnology</i> , 2008 , 19, 475707	3.4	11
64	Scanning electron microscopy imaging of single-walled carbon nanotubes on substrates. <i>Nano Research</i> , 2017 , 10, 1804-1818	10	10
63	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
62	Mixed-Dimensional Vertical Point pn Junctions. <i>ACS Nano</i> , 2020 , 14, 3181-3189	16.7	10
61	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
60	Self-Expansion Construction of Ultralight Carbon Nanotube Aerogels with a 3D and Hierarchical Cellular Structure. <i>Small</i> , 2017 , 13, 1700966	11	9

59	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
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