Kaili Jiang

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Spinning continuous carbon nanotube yarns. Nature, 2002, 419, 801-801.	27.8	1,023
2	Grain-Boundary-Dependent CO₂ Electroreduction Activity. Journal of the American Chemical Society, 2015, 137, 4606-4609.	13.7	583
3	Spinning and Processing Continuous Yarns from 4-Inch Wafer Scale Super-Aligned Carbon Nanotube Arrays. Advanced Materials, 2006, 18, 1505-1510.	21.0	563
4	Fabrication of Ultralong and Electrically Uniform Single-Walled Carbon Nanotubes on Clean Substrates. Nano Letters, 2009, 9, 3137-3141.	9.1	516
5	Flexible, Stretchable, Transparent Carbon Nanotube Thin Film Loudspeakers. Nano Letters, 2008, 8, 4539-4545.	9.1	472
6	Crossâ€Stacked Carbon Nanotube Sheets Uniformly Loaded with SnO₂ Nanoparticles: A Novel Binderâ€Free and Highâ€Capacity Anode Material for Lithiumâ€Ion Batteries. Advanced Materials, 2009, 21, 2299-2304.	21.0	444
7	Superaligned Carbon Nanotube Arrays, Films, and Yarns: A Road to Applications. Advanced Materials, 2011, 23, 1154-1161.	21.0	391
8	Flexible, Stretchable, Transparent Conducting Films Made from Superaligned Carbon Nanotubes. Advanced Functional Materials, 2010, 20, 885-891.	14.9	363
9	A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. ACS Central Science, 2016, 2, 169-174.	11.3	362
10	Protein microarrays with carbon nanotubes as multicolor Raman labels. Nature Biotechnology, 2008, 26, 1285-1292.	17.5	317
11	Controlled Fabrication of High-Quality Carbon Nanoscrolls from Monolayer Graphene. Nano Letters, 2009, 9, 2565-2570.	9.1	312
12	Ultrathin MnO₂/Graphene Oxide/Carbon Nanotube Interlayer as Efficient Polysulfideâ€Trapping Shield for Highâ€Performance Liâ€“S Batteries. Advanced Functional Materials, 2017, 27, 1606663.	14.9	306
13	Conformal Fe₃O₄ Sheath on Aligned Carbon Nanotube Scaffolds as High-Performance Anodes for Lithium Ion Batteries. Nano Letters, 2013, 13, 818-823.	9.1	289
14	Binderâ€Free LiCoO₂/Carbon Nanotube Cathodes for Highâ€Performance Lithium Ion Batteries. Advanced Materials, 2012, 24, 2294-2298.	21.0	271
15	Sulfur Nanocrystals Confined in Carbon Nanotube Network As a Binder-Free Electrode for High-Performance Lithium Sulfur Batteries. Nano Letters, 2014, 14, 4044-4049.	9.1	262
16	Controlled Growth of Super-Aligned Carbon Nanotube Arrays for Spinning Continuous Unidirectional Sheets with Tunable Physical Properties. Nano Letters, 2008, 8, 700-705.	9.1	259
17	Superâ€Aligned Carbon Nanotube Films as Current Collectors for Lightweight and Flexible Lithium Ion Batteries. Advanced Functional Materials, 2013, 23, 846-853.	14.9	258
18	Fast Adaptive Thermal Camouflage Based on Flexible VO₂/Graphene/CNT Thin Films. Nano Letters, 2015, 15, 8365-8370.	9.1	253

#	ARTICLE	IF	CITATIONS
19	Multiplexed Multicolor Raman Imaging of Live Cells with Isotopically Modified Single Walled Carbon Nanotubes. Journal of the American Chemical Society, 2008, 130, 13540-13541.	13.7	251
20	Scratch-Resistant, Highly Conductive, and High-Strength Carbon Nanotube-Based Composite Yarns. ACS Nano, 2010, 4, 5827-5834.	14.6	243
21	Allâ€Carbonâ€Electrodeâ€Based Endurable Flexible Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1706777.	14.9	242
22	Carbon nanotube yarns with high tensile strength made by a twisting and shrinking method. Nanotechnology, 2010, 21, 045708.	2.6	219
23	Measuring the Work Function of Carbon Nanotubes with Thermionic Method. Nano Letters, 2008, 8, 647-651.	9.1	199
24	Sulfur Embedded in a Mesoporous Carbon Nanotube Network as a Binder-Free Electrode for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2016, 10, 1300-1308.	14.6	196
25	Carbon nanotube/epoxy composites fabricated by resin transfer molding. Carbon, 2010, 48, 260-266.	10.3	195
26	Reversibility of Noble Metal-Catalyzed Aprotic Li-O₂ Batteries. Nano Letters, 2015, 15, 8084-8090.	9.1	165
27	Large-Strain, Multiform Movements from Designable Electrothermal Actuators Based on Large Highly Anisotropic Carbon Nanotube Sheets. ACS Nano, 2015, 9, 409-418.	14.6	161
28	Highly Sensitive Surface-Enhanced Raman Scattering Substrate Made from Superaligned Carbon Nanotubes. Nano Letters, 2010, 10, 1747-1753.	9.1	157
29	Crossâ€Stacked Superaligned Carbon Nanotube Films for Transparent and Stretchable Conductors. Advanced Functional Materials, 2011, 21, 2721-2728.	14.9	156
30	A growth mark method for studying growth mechanism of carbon nanotube arrays. Carbon, 2005, 43, 2850-2856.	10.3	142
31	The Dependence of Graphene Raman D-band on Carrier Density. Nano Letters, 2013, 13, 6170-6175.	9.1	138
32	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with Allâ€Inorganic Charge Contacts. Advanced Functional Materials, 2017, 27, 1703068.	14.9	132
33	Multiplexed five-color molecular imaging of cancer cells and tumor tissues with carbon nanotube Raman tags in the near-infrared. Nano Research, 2010, 3, 222-233.	10.4	123
34	Carbonâ€Nanotubeâ€Film Microheater on a Polyethylene Terephthalate Substrate and Its Application in Thermochromic Displays. Small, 2011, 7, 732-736.	10.0	113
35	Orientation-Controlled Growth of Single-Crystal Silicon-Nanowire Arrays. Advanced Materials, 2005, 17, 56-61.	21.0	112
36	Super-aligned carbon nanotube/graphene hybrid materials as a framework for sulfur cathodes in high performance lithium sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 5305-5312.	10.3	112

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37	Flexible and transparent strain sensors based on super-aligned carbon nanotube films. Nanoscale, 2017, 9, 6716-6723.	5.6	108
38	Enhanced performance of lithium-sulfur batteries with an ultrathin and lightweight MoS2/carbon nanotube interlayer. Journal of Power Sources, 2018, 389, 169-177.	7.8	107
39	New Insight in Understanding Oxygen Reduction and Evolution in Solid-State Lithiumâ€“Oxygen Batteries Using an in Situ Environmental Scanning Electron Microscope. Nano Letters, 2014, 14, 4245-4249.	9.1	104
40	Super-aligned carbon nanotube films as aligning layers and transparent electrodes for liquid crystal displays. Carbon, 2010, 48, 1876-1879.	10.3	100
41	Thermionic emission and work function of multiwalled carbon nanotube yarns. Physical Review B, 2006, 73, .	3.2	98
42	Preparation of singleâ€walled carbon nanotube fiber coating for solidâ€phase microextraction of organochlorine pesticides in lake water and wastewater. Journal of Separation Science, 2007, 30, 2138-2143.	2.5	94
43	Cross-stacked superaligned carbon nanotube electrodes for efficient hole conductor-free perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 5569-5577.	10.3	92
44	Fast Highâ€Temperature Response of Carbon Nanotube Film and Its Application as an Incandescent Display. Advanced Materials, 2009, 21, 3563-3566.	21.0	91
45	In Situ TEM observation of the gasification and growth of carbon nanotubes using iron catalysts. Nano Research, 2011, 4, 767-779.	10.4	91
46	Flexible, All-Inorganic Actuators Based on Vanadium Dioxide and Carbon Nanotube Bimorphs. Nano Letters, 2017, 17, 421-428.	9.1	89
47	Polarized incandescent light emission from carbon nanotubes. Applied Physics Letters, 2003, 82, 1763-1765.	3.3	87
48	New-Type Planar Field Emission Display with Superaligned Carbon Nanotube Yarn Emitter. Nano Letters, 2012, 12, 2391-2396.	9.1	87
49	Fabrication and properties of aligned multiwalled carbon nanotube-reinforced epoxy composites. Journal of Materials Research, 2008, 23, 2975-2983.	2.6	86
50	High-performance supercapacitors using a nanoporous current collector made from super-aligned carbon nanotubes. Nanotechnology, 2010, 21, 345701.	2.6	85
51	Multifunctional super-aligned carbon nanotube/polyimide composite film heaters and actuators. Carbon, 2018, 139, 1136-1143.	10.3	78
52	Tip Cooling Effect and Failure Mechanism of Field-Emitting Carbon Nanotubes. Nano Letters, 2006, 7, 64-68.	9.1	77
53	MnO2 nanoparticles anchored on carbon nanotubes with hybrid supercapacitor-battery behavior for ultrafast lithium storage. Carbon, 2018, 139, 145-155.	10.3	77
54	Efficient fabrication of field electron emitters from the multiwalled carbon nanotube yarns. Applied Physics Letters, 2006, 89, 063101.	3.3	71

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55	Development of an ultra-thin film comprised of a graphene membrane and carbon nanotube vein support. Nature Communications, 2013, 4, 2920.	12.8	71
56	Selfâ€assembly of 3D Carbon Nanotube Sponges: A Simple and Controllable Way to Build Macroscopic and Ultralight Porous Architectures. Advanced Materials, 2017, 29, 1603549.	21.0	69
57	Mn3O4 nanoparticles anchored on continuous carbon nanotube network as superior anodes for lithium ion batteries. Journal of Power Sources, 2014, 249, 463-469.	7.8	68
58	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 31384-31393.	8.0	68
59	Thermoacoustic Chips with Carbon Nanotube Thin Yarn Arrays. Nano Letters, 2013, 13, 4795-4801.	9.1	67
60	Hybrid super-aligned carbon nanotube/carbon black conductive networks: AÂstrategy to improve both electrical conductivity and capacity for lithium ionÂbatteries. Journal of Power Sources, 2013, 233, 209-215.	7.8	66
61	Three-Dimensional Flexible Complementary Metalâ€“Oxideâ€“Semiconductor Logic Circuits Based On Two-Layer Stacks of Single-Walled Carbon Nanotube Networks. ACS Nano, 2016, 10, 2193-2202.	14.6	66
62	Amorphous MoS₂ Photodetector with Ultra-Broadband Response. ACS Applied Electronic Materials, 2019, 1, 1314-1321.	4.3	65
63	Binder-free polymer encapsulated sulfurâ€“carbon nanotube composite cathodes for high performance lithium batteries. Carbon, 2016, 96, 1053-1059.	10.3	64
64	High frequency response of carbon nanotube thin film speaker in gases. Journal of Applied Physics, 2011, 110, .	2.5	61
65	Direct Identification of Metallic and Semiconducting Single-Walled Carbon Nanotubes in Scanning Electron Microscopy. Nano Letters, 2012, 12, 4095-4101.	9.1	61
66	Mesoporous Li4Ti5O12 nanoclusters as high performance negative electrodes for lithium ion batteries. Journal of Power Sources, 2014, 248, 265-272.	7.8	61
67	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. Nature Catalysis, 2018, 1, 326-331.	34.4	61
68	Vacuum-Breakdown-Induced Needle-Shaped Ends of Multiwalled Carbon Nanotube Yarns and Their Field Emission Applications. Nano Letters, 2007, 7, 3792-3797.	9.1	60
69	Flexible, transparent and highly sensitive SERS substrates with cross-nanoporous structures for fast on-site detection. Nanoscale, 2018, 10, 15195-15204.	5.6	60
70	Intelligent identification of two-dimensional nanostructures by machine-learning optical microscopy. Nano Research, 2018, 11, 6316-6324.	10.4	59
71	Superaligned Carbon Nanotube Grid for High Resolution Transmission Electron Microscopy of Nanomaterials. Nano Letters, 2008, 8, 2564-2569.	9.1	57
72	Carbon-nanotube sponges enabling highly efficient and reliable cell inactivation by low-voltage electroporation. Environmental Science: Nano, 2017, 4, 2010-2017.	4.3	56

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73	Ultra-stretchable conductors based on buckled super-aligned carbon nanotube films. Nanoscale, 2015, 7, 10178-10185.	5.6	55
74	Strongly Coupled Nanotube Electromechanical Resonators. Nano Letters, 2016, 16, 5456-5462.	9.1	55
75	Applications of carbon nanotubes in high performance lithium ion batteries. Frontiers of Physics, 2014, 9, 351-369.	5.0	54
76	Facile growth of vertically-aligned graphene nanosheets via thermal CVD: The experimental and theoretical investigations. Carbon, 2017, 121, 1-9.	10.3	53
77	Comparative studies of multiwalled carbon nanotube sheets before and after shrinking. Physical Review B, 2007, 76, .	3.2	52
78	Bifunctional NbS₂-Based Asymmetric Heterostructure for Lateral and Vertical Electronic Devices. ACS Nano, 2020, 14, 175-184.	14.6	51
79	Transition of Single-Walled Carbon Nanotubes from Metallic to Semiconducting in Field-Effect Transistors by Hydrogen Plasma Treatment. Nano Letters, 2007, 7, 1622-1625.	9.1	50
80	Enhanced rate capabilities of Co3O4/carbon nanotube anodes for lithium ion battery applications. Journal of Materials Chemistry A, 2013, 1, 11121.	10.3	50
81	Heating graphene to incandescence and the measurement of its work function by the thermionic emission method. Nano Research, 2014, 7, 553-560.	10.4	50
82	Superconductorâ€“Insulator Transitions in Exfoliated Bi₂Sr₂CaCu₂O_{8+Î´} Flakes. Nano Letters, 2018, 18, 5660-5665.	9.1	50
83	CO2 oxidation of carbon nanotubes for lithium-sulfur batteries with improved electrochemical performance. Carbon, 2018, 132, 370-379.	10.3	48
84	Flexible Mid-Infrared Radiation Modulator with Multilayer Graphene Thin Film by Ionic Liquid Gating. ACS Applied Materials & Interfaces, 2019, 11, 13538-13544.	8.0	47
85	Mesoporous Li₄Ti₅O₁₂ nanoclusters anchored on super-aligned carbon nanotubes as high performance electrodes for lithium ion batteries. Nanoscale, 2016, 8, 617-625.	5.6	46
86	Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. Nanoscale, 2018, 10, 19972-19978.	5.6	46
87	Graphene welded carbon nanotube crossbars for biaxial strain sensors. Carbon, 2017, 123, 786-793.	10.3	44
88	Silicene nanomesh. Scientific Reports, 2015, 5, 9075.	3.3	42
89	A Vapor-Liquid-Solid Model for Chemical Vapor Deposition Growth of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 1494-1504.	0.9	39
90	Entrapping electrode materials within ultrathin carbon nanotube network for flexible thin film lithium ion batteries. RSC Advances, 2014, 4, 20010-20016.	3.6	39

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91	Load Characteristics of a Suspended Carbon Nanotube Film Heater and the Fabrication of a Fast-Response Thermochromic Display Prototype. ACS Nano, 2015, 9, 3753-3759.	14.6	39
92	LaB6 tip-modified multiwalled carbon nanotube as high quality field emission electron source. Applied Physics Letters, 2006, 89, 203112.	3.3	38
93	High-strength composite yarns derived from oxygen plasma modified super-aligned carbon nanotube arrays. Nano Research, 2013, 6, 208-215.	10.4	38
94	Controlled Termination of the Growth of Vertically Aligned Carbon Nanotube Arrays. Advanced Materials, 2007, 19, 975-978.	21.0	37
95	Coherent Phonon Rabi Oscillations with a High-Frequency Carbon Nanotube Phonon Cavity. Nano Letters, 2017, 17, 915-921.	9.1	37
96	A polarized infrared thermal detector made from super-aligned multiwalled carbon nanotube films. Nanotechnology, 2011, 22, 025502.	2.6	36
97	Fabrication and processing of high-strength densely packed carbon nanotube yarns without solution processes. Nanoscale, 2012, 4, 3389.	5.6	36
98	Trap-State-Dominated Suppression of Electron Conduction in Carbon Nanotube Thin-Film Transistors. ACS Nano, 2014, 8, 9597-9605.	14.6	36
99	Low-energy transmission electron diffraction and imaging of large-area graphene. Science Advances, 2017, 3, e1603231.	10.3	35
100	Photo-driven nanoactuators based on carbon nanocoils and vanadium dioxide bimorphs. Nanoscale, 2018, 10, 11158-11164.	5.6	35
101	Periodically striped films produced from super-aligned carbon nanotube arrays. Nanotechnology, 2009, 20, 335705.	2.6	34
102	True-color real-time imaging and spectroscopy of carbon nanotubes on substrates using enhanced Rayleigh scattering. Nano Research, 2015, 8, 2721-2732.	10.4	34
103	Free-Standing, Binder-Free Titania/Super-Aligned Carbon Nanotube Anodes for Flexible and Fast-Charging Li-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 3426-3433.	6.7	34
104	Optically Induced Phase Change for Magnetoresistance Modulation. Advanced Quantum Technologies, 2020, 3, 1900104.	3.9	34
105	Presence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:math> -Wave Pairing in Josephson Junctions Made of Twisted Ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mm Physical Review X, 2021, 11, .	8.9	34
106	Ultrathin HfO2-modified carbon nanotube films as efficient polysulfide barriers for Li-S batteries. Carbon, 2018, 139, 896-905.	10.3	33
107	Thermal Analysis Study of the Growth Kinetics of Carbon Nanotubes and Epitaxial Graphene Layers on Them. Journal of Physical Chemistry C, 2009, 113, 9623-9631.	3.1	32
108	SWCNTâ€MoS₂â€SWCNT Vertical Point Heterostructures. Advanced Materials, 2017, 29, 1604469.	21.0	32

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109	Sensitivity Limits and Scaling of Bioelectronic Graphene Transducers. Nano Letters, 2013, 13, 2902-2907.	9.1	31
110	Cycle and rate performance of chemically modified super-aligned carbon nanotube electrodes for lithium ion batteries. Carbon, 2014, 69, 444-451.	10.3	31
111	Positive and Negative Effects of Carbon Nanotubes on the Hydrogen Sorption Kinetics of Magnesium. Journal of Physical Chemistry C, 2015, 119, 25282-25290.	3.1	31
112	Sharp-Tip Silver Nanowires Mounted on Cantilevers for High-Aspect-Ratio High-Resolution Imaging. Nano Letters, 2016, 16, 6896-6902.	9.1	30
113	Observation of Charge Generation and Transfer during CVD Growth of Carbon Nanotubes. Nano Letters, 2016, 16, 4102-4109.	9.1	30
114	In situ synthesized carbon nanotube networks on a microcantilever for sensitive detection of explosive vapors. Sensors and Actuators B: Chemical, 2013, 176, 141-148.	7.8	29
115	Vapor-Condensation-Assisted Optical Microscopy for Ultralong Carbon Nanotubes and Other Nanostructures. Nano Letters, 2014, 14, 3527-3533.	9.1	29
116	Barium-functionalized multiwalled carbon nanotube yarns as low-work-function thermionic cathodes. Applied Physics Letters, 2008, 92, .	3.3	28
117	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. Nano Research, 2019, 12, 1105-1113.	10.4	28
118	Sub-10 nm Monolayer MoS₂ Transistors Using Single-Walled Carbon Nanotubes as an Evaporating Mask. ACS Applied Materials & Interfaces, 2019, 11, 11612-11617.	8.0	27
119	Laser direct writing carbon nanotube arrays on transparent substrates. Applied Physics Letters, 2007, 90, 133108.	3.3	26
120	Effect of carbon deposits on the reactor wall during the growth of multi-walled carbon nanotube arrays. Carbon, 2007, 45, 2379-2387.	10.3	26
121	Highly catalytic cross-stacked superaligned carbon nanotube sheets for iodine-free dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 22756.	6.7	26
122	Fabrication of air-stable n-type carbon nanotube thin-film transistors on flexible substrates using bilayer dielectrics. Nanoscale, 2015, 7, 17693-17701.	5.6	26
123	A vacuum sensor using field emitters made by multiwalled carbon nanotube yarns. Vacuum, 2012, 86, 885-888.	3.5	25
124	Highly Sensitive, Uniform, and Reproducible Surface-Enhanced Raman Spectroscopy Substrate with Nanometer-Scale Quasi-periodic Nanostructures. ACS Applied Materials & Interfaces, 2017, 9, 32369-32376.	8.0	25
125	Flexible and free-standing hetero-electrocatalyst of high-valence-cation doped MoS₂/MoO₂/CNT foam with synergistically enhanced hydrogen evolution reaction catalytic activity. Journal of Materials Chemistry A, 2020, 8, 14944-14954.	10.3	25
126	Breaking single-walled carbon nanotube bundles by Joule heating. Applied Physics Letters, 2008, 93, .	3.3	24

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127	Anisotropic interfacial friction of inclined multiwall carbon nanotube array surface. Carbon, 2012, 50, 5372-5379.	10.3	24
128	Evaluating Bandgap Distributions of Carbon Nanotubes via Scanning Electron Microscopy Imaging of the Schottky Barriers. Nano Letters, 2013, 13, 5556-5562.	9.1	24
129	Fabrication of Allâ€Carbon Nanotube Electronic Devices on Flexible Substrates Through CVD and Transfer Methods. Advanced Materials, 2013, 25, 6050-6056.	21.0	24
130	Wafer-scale freestanding vanadium dioxide film. Science Advances, 2021, 7, eabk3438.	10.3	24
131	Measuring the stress in field-emitting carbon nanotubes. Nanotechnology, 2006, 17, 1994-1998.	2.6	23
132	Enhanced optical output power of blue light-emitting diodes with quasi-aligned gold nanoparticles. Nanoscale Research Letters, 2014, 9, 7.	5.7	23
133	Enhanced performance of graphene transistor with ion-gel top gate. Carbon, 2014, 68, 480-486.	10.3	23
134	Epitaxial Growth of Aligned and Continuous Carbon Nanofibers from Carbon Nanotubes. ACS Nano, 2017, 11, 1257-1263.	14.6	23
135	TiO₂-Nanocoated Black Phosphorus Electrodes with Improved Electrochemical Performance. ACS Applied Materials & Interfaces, 2018, 10, 36058-36066.	8.0	23
136	Growth mechanism of Y-junctions and related carbon nanotube junctions synthesized by Au-catalyzed chemical vapor deposition. Carbon, 2008, 46, 440-444.	10.3	22
137	Aligned carbon nanotube coating on polyethylene surface formed by microwave radiation. Composites Science and Technology, 2011, 72, 85-90.	7.8	22
138	Super-aligned carbon nanotube films with a thin metal coating as highly conductive and ultralight current collectors for lithium-ion batteries. Journal of Power Sources, 2017, 351, 160-168.	7.8	22
139	Spray coating of a perfect absorber based on carbon nanotube multiscale composites. Carbon, 2021, 178, 616-624.	10.3	22
140	Radiation effects and radiation hardness solutions for single-walled carbon nanotube-based thin film transistors and logic devices. Carbon, 2016, 108, 363-371.	10.3	21
141	Carbonâ€Nanotubeâ€Confined Vertical Heterostructures with Asymmetric Contacts. Advanced Materials, 2017, 29, 1702942.	21.0	21
142	Infrared micro-detectors with high sensitivity and high response speed using VO₂-coated helical carbon nanocoils. Journal of Materials Chemistry C, 2019, 7, 12095-12103.	5.5	21
143	Direct laser patterning of two-dimensional lateral transition metal disulfide-oxide-disulfide heterostructures for ultrasensitive sensors. Nano Research, 2020, 13, 2035-2043.	10.4	21
144	Shape-controlled synthesis of silver nanostructures. Nanotechnology, 2005, 16, 2412-2414.	2.6	20

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145	Cross-stacked carbon nanotube film as an additional built-in current collector and adsorption layer for high-performance lithium sulfur batteries. Nanotechnology, 2016, 27, 075401.	2.6	20
146	Influence of Asymmetric Contact Form on Contact Resistance and Schottky Barrier, and Corresponding Applications of Diode. ACS Applied Materials & Interfaces, 2017, 9, 18945-18955.	8.0	20
147	Three-Dimensional Carbon Nanotube/Transition-Metal Oxide Sponges as Composite Electrodes with Enhanced Electrochemical Performance. ACS Applied Nano Materials, 2018, 1, 2997-3005.	5.0	20
148	Electrical control of spatial resolution in mixed-dimensional heterostructured photodetectors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6586-6593.	7.1	20
149	A cylindrical rod ultrasonic motor with 1 mm diameter and its application in endoscopic OCT. Science Bulletin, 2005, 50, 826-830.	1.7	19
150	In situ fabrication of HfC-decorated carbon nanotube yarns and their field-emission properties. Carbon, 2010, 48, 531-537.	10.3	19
151	Effects of carbon nanotubes on the dehydrogenation behavior of magnesium hydride at relatively low temperatures. Journal of Materials Chemistry A, 2014, 2, 16369-16372.	10.3	19
152	Parametric strong mode-coupling in carbon nanotube mechanical resonators. Nanoscale, 2016, 8, 14809-14813.	5.6	19
153	Mixed-Dimensional Vertical Point p<i>â€“</i>n Junctions. ACS Nano, 2020, 14, 3181-3189.	14.6	18
154	Flash-evaporation printing methodology for perovskite thin films. NPG Asia Materials, 2017, 9, e395-e395.	7.9	17
155	Continuous, Ultra-lightweight, and Multipurpose Super-aligned Carbon Nanotube Tapes Viable over a Wide Range of Temperatures. Nano Letters, 2019, 19, 6756-6764.	9.1	17
156	Scanning focused laser activation of carbon nanotube cathodes for field emission flat panel displays. Nanotechnology, 2008, 19, 135703.	2.6	16
157	Metal-film-assisted ultra-clean transfer of single-walled carbon nanotubes. Nano Research, 2014, 7, 981-989.	10.4	15
158	A flexible, multifunctional, active terahertz modulator with an ultra-low triggering threshold. Journal of Materials Chemistry C, 2020, 8, 10213-10220.	5.5	15
159	Broadband omnidirectional perfect absorber based on carbon nanotube films. Carbon, 2020, 161, 510-516.	10.3	15
160	A Display Module Implemented by the Fast High-Temperatue Response of Carbon Nanotube Thin Yarns. Nano Letters, 2012, 12, 2548-2553.	9.1	14
161	Scaled fabrication of single-nanotube-tipped ends from carbon nanotube micro-yarns and their field emission applications. Nanotechnology, 2008, 19, 475707.	2.6	13
162	Field emission behavior study of multiwalled carbon nanotube yarn under the influence of adsorbents. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 736-739.	1.2	13

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163	Stressed carbon nanotube devices for high tunability, high quality factor, single mode GHz resonators. Nano Research, 2018, 11, 5812-5822.	10.4	13
164	Synthesis of Carbon Nanotubes on Suspending Microstructures by Rapid Local Laser Heating. IEEE Sensors Journal, 2011, 11, 3424-3425.	4.7	12
165	Efficient Fabrication of Carbon Nanotube Micro Tip Arrays by Tailoring Cross-Stacked Carbon Nanotube Sheets. Nano Letters, 2012, 12, 2071-2076.	9.1	12
166	Excitation of Surface Plasmon Resonance in Composite Structures Based on Single-Layer Superaligned Carbon Nanotube Films. Journal of Physical Chemistry C, 2013, 117, 23190-23197.	3.1	12
167	Monolayer charge-neutral graphene on platinum with extremely weak electron-phonon coupling. Physical Review B, 2015, 92, .	3.2	12
168	Interface dipole enhancement effect and enhanced Rayleigh scattering. Nano Research, 2015, 8, 303-319.	10.4	12
169	Imaging of soft material with carbon nanotube tip using near-field scanning microwave microscopy. Ultramicroscopy, 2015, 148, 75-80.	1.9	12
170	Scanning electron microscopy imaging of single-walled carbon nanotubes on substrates. Nano Research, 2017, 10, 1804-1818.	10.4	12
171	6â€‰nm super-resolution optical transmission and scattering spectroscopic imaging of carbon nanotubes using a nanometer-scale white light source. Nature Communications, 2021, 12, 6868.	12.8	12
172	Ice-Assisted Transfer of Carbon Nanotube Arrays. Nano Letters, 2015, 15, 1843-1848.	9.1	11
173	Sandwich-structured cathodes with cross-stacked carbon nanotube films as conductive layers for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 4047-4057.	10.3	11
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