Qingwen Li

List of Publications by Year
in descending order

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283 papers	17,063 citations	10986 71 h-index	19749 117 g-index
288 all docs	288 docs citations	288 times ranked	17430 citing authors

#	Article	IF	Citations
1	Noble metal-comparable SERS enhancement from semiconducting metal oxides by making oxygen vacancies. Nature Communications, 2015, 6, 7800.	12.8	534
2	Strong Carbon-Nanotube Fibers Spun from Long Carbon-Nanotube Arrays. Small, 2007, 3, 244-248.	10.0	370
3	Singleâ€Crystalline Tungsten Oxide Quantum Dots for Fast Pseudocapacitor and Electrochromic Applications. Advanced Materials, 2014, 26, 4260-4267.	21.0	350
4	Graphene-Patched CNT/MnO₂ Nanocomposite Papers for the Electrode of High-Performance Flexible Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 3408-3416.	8.0	326
5	Electrochromatic carbon nanotube/polydiacetylene nanocomposite fibres. Nature Nanotechnology, 2009, 4, 738-741.	31.5	321
6	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. Nature, 2017, 543, 234-238.	27.8	317
7	Carbon Nanotube Fiber Based Stretchable Wireâ€Shaped Supercapacitors. Advanced Energy Materials, 2014, 4, 1300759.	19.5	313
8	Carbonâ€Nanotube Fibers for Wearable Devices and Smart Textiles. Advanced Materials, 2016, 28, 10529-10538.	21.0	310
9	Stretchable Wire-Shaped Asymmetric Supercapacitors Based on Pristine and MnO₂ Coated Carbon Nanotube Fibers. ACS Nano, 2015, 9, 6088-6096.	14.6	283
10	Wrapping Aligned Carbon Nanotube Composite Sheets around Vanadium Nitride Nanowire Arrays for Asymmetric Coaxial Fiber-Shaped Supercapacitors with Ultrahigh Energy Density. Nano Letters, 2017, 17, 2719-2726.	9.1	281
11	Synergy of W₁₈O₄₉ and Polyaniline for Smart Supercapacitor Electrode Integrated with Energy Level Indicating Functionality. Nano Letters, 2014, 14, 2150-2156.	9.1	275
12	Grapheneâ€Based Fibers: A Review. Advanced Materials, 2015, 27, 5113-5131.	21.0	261
13	Coupling Molecularly Ultrathin Sheets of NiFe-Layered Double Hydroxide on NiCo₂O₄ Nanowire Arrays for Highly Efficient Overall Water-Splitting Activity. ACS Applied Materials & Interfaces, 2017, 9, 1488-1495.	8.0	244
14	A High Performance Stretchable Asymmetric Fiberâ€Shaped Supercapacitor with a Coreâ€Sheath Helical Structure. Advanced Energy Materials, 2017, 7, 1600976.	19.5	242
15	Temperature-mediated growth of single-walled carbon-nanotube intramolecular junctions. Nature Materials, 2007, 6, 283-286.	27.5	238
16	Constructing Ultrahigh-Capacity Zincâ€“Nickelâ€“Cobalt Oxide@Ni(OH)₂ Coreâ€“Shell Nanowire Arrays for High-Performance Coaxial Fiber-Shaped Asymmetric Supercapacitors. Nano Letters, 2017, 17, 7552-7560.	9.1	231
17	Omnidirectionally Stretchable High-Performance Supercapacitor Based on Isotropic Buckled Carbon Nanotube Films. ACS Nano, 2016, 10, 5204-5211.	14.6	220
18	Electrochemical fabrication of carbon nanotube/polyaniline hydrogel film for all-solid-state flexible supercapacitor with high areal capacitance. Journal of Materials Chemistry A, 2015, 3, 23864-23870.	10.3	209

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19	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. Nano Letters, 2019, 19, 4035-4042.	9.1	202
20	Stretchable fiber-shaped asymmetric supercapacitors with ultrahigh energy density. Nano Energy, 2017, 39, 219-228.	16.0	200
21	Allâ€Solidâ€State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. Advanced Energy Materials, 2019, 9, 1802753.	19.5	197
22	Wearable Doubleâ€Twisted Fibrous Perovskite Solar Cell. Advanced Materials, 2015, 27, 3831-3835.	21.0	184
23	Polypyrrole/Silver Coaxial Nanowire Aero-Sponges for Temperature-Independent Stress Sensing and Stress-Triggered Joule Heating. ACS Nano, 2015, 9, 4244-4251.	14.6	175
24	High-Performance Cable-Type Flexible Rechargeable Zn Battery Based on MnO₂@CNT Fiber Microelectrode. ACS Applied Materials & Interfaces, 2018, 10, 24573-24582.	8.0	174
25	An adaptive and stable bio-electrolyte for rechargeable Zn-ion batteries. Journal of Materials Chemistry A, 2018, 6, 12237-12243.	10.3	169
26	Understanding the Mechanical and Conductive Properties of Carbon Nanotube Fibers for Smart Electronics. Advanced Materials, 2020, 32, e1902028.	21.0	169
27	Ultrastrong, Foldable, and Highly Conductive Carbon Nanotube Film. ACS Nano, 2012, 6, 5457-5464.	14.6	153
28	Flexible Lithium-Ion Fiber Battery by the Regular Stacking of Two-Dimensional Titanium Oxide Nanosheets Hybridized with Reduced Graphene Oxide. Nano Letters, 2017, 17, 3543-3549.	9.1	148
29	A comparison of the mechanical properties of fibers spun from different carbon nanotubes. Carbon, 2011, 49, 1333-1339.	10.3	145
30	Enhancement of carbon nanotube fibres using different solvents and polymers. Composites Science and Technology, 2012, 72, 1402-1407.	7.8	144
31	Molecularly Stacking Manganese Dioxide/Titanium Carbide Sheets to Produce Highly Flexible and Conductive Film Electrodes with Improved Pseudocapacitive Performances. Advanced Energy Materials, 2017, 7, 1602834.	19.5	144
32	Elastic, Conductive, Polymeric Hydrogels and Sponges. Scientific Reports, 2014, 4, 5792.	3.3	139
33	Versatile Cutting Method for Producing Fluorescent Ultrasmall MXene Sheets. ACS Nano, 2017, 11, 11559-11565.	14.6	136
34	Enhancing the interfacial interaction of carbon nanotubes fibers by Au nanoparticles with improved performance of the electrical and thermal conductivity. Carbon, 2019, 141, 497-505.	10.3	136
35	Freestanding Metalâ€“Organic Frameworks and Their Derivatives: An Emerging Platform for Electrochemical Energy Storage and Conversion. Chemical Reviews, 2022, 122, 10087-10125.	47.7	126
36	Mechanical and electrical property improvement in CNT/Nylon composites through drawing and stretching. Composites Science and Technology, 2011, 71, 1677-1683.	7.8	121

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37	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. Nature Communications, 2015, 6, 6099.	12.8	120
38	The effective interfacial shear strength of carbon nanotube fibers in an epoxy matrix characterized by a microdroplet test. Carbon, 2012, 50, 1271-1279.	10.3	119
39	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Fewâ€Walled Carbon Nanotubes in Flexible Polymer Composites. Advanced Functional Materials, 2017, 27, 1606604.	14.9	119
40	Highly Reversible Aqueous Znâ€MnO₂ Battery by Supplementing Mn²⁺â€Mediated MnO₂ Deposition and Dissolution. Advanced Functional Materials, 2021, 31, 2101579.	14.9	119
41	Highly aligned dense carbon nanotube sheets induced by multiple stretching and pressing. Nanoscale, 2014, 6, 4338-4344.	5.6	116
42	Electrostatic-Interaction-Assisted Construction of 3D Networks of Manganese Dioxide Nanosheets for Flexible High-Performance Solid-State Asymmetric Supercapacitors. ACS Nano, 2017, 11, 7879-7888.	14.6	116
43	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock	10.3	114
44	Self-Organization of Carbon Nanotubes in Evaporating Droplets. Journal of Physical Chemistry B, 2006, 110, 13926-13930.	2.6	113
45	Solutionâ€Processing of Highâ€Purity Semiconducting Singleâ€Walled Carbon Nanotubes for Electronics Devices. Advanced Materials, 2019, 31, e1800750.	21.0	112
46	Continuous electrodeposition for lightweight, highly conducting and strong carbon nanotube-copper composite fibers. Nanoscale, 2011, 3, 4215.	5.6	111
47	3D confined zinc plating/stripping with high discharge depth and excellent high-rate reversibility. Journal of Materials Chemistry A, 2020, 8, 11719-11727.	10.3	111
48	Flexible fiber-shaped supercapacitors: Design, fabrication, and multi-functionalities. Energy Storage Materials, 2017, 8, 85-109.	18.0	108
49	Solutionâ€Processable Highâ€Purity Semiconducting SWCNTs for Largeâ€Area Fabrication of Highâ€Performance Thinâ€Film Transistors. Small, 2016, 12, 4993-4999.	10.0	107
50	Carbon Nanotube Fiber Based Stretchable Conductor. Advanced Functional Materials, 2013, 23, 789-793.	14.9	104
51	Hierarchical CNT@NiCo₂O₄ coreâ€“shell hybrid nanostructure for high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 11509-11515.	10.3	102
52	Highly Uniform Carbon Nanotube Field-Effect Transistors and Medium Scale Integrated Circuits. Nano Letters, 2016, 16, 5120-5128.	9.1	101
53	Crosslinked Carbon Nanotube Aerogel Films Decorated with Cobalt Oxides for Flexible Rechargeable Znâ€“Air Batteries. Small, 2017, 13, 1700518.	10.0	99
54	Architecting Three-Dimensional Networks in Carbon Nanotube Buckypapers for Thermal Interface Materials. Journal of Physical Chemistry C, 2012, 116, 3903-3909.	3.1	96

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55	Stretchable Fiber Supercapacitors with High Volumetric Performance Based on Buckled MnO₂/Oxidized Carbon Nanotube Fiber Electrodes. Small, 2017, 13, 1602994.	10.0	94
56	Carbon nanotube fibers for electrochemical applications: effect of enhanced interfaces by an acid treatment. Nanoscale, 2012, 4, 7464.	5.6	93
57	Spontaneous assembly of strong and conductive graphene/polypyrrole hybrid aerogels for energy storage. Nanoscale, 2014, 6, 12912-12920.	5.6	93
58	Flexible carbon nanotube/polyurethane electrothermal films. Carbon, 2016, 110, 343-349.	10.3	90
59	Room Temperature Broadband Infrared Carbon Nanotube Photodetector with High Detectivity and Stability. Advanced Optical Materials, 2016, 4, 238-245.	7.3	90
60	Fabrication and functionalization of carbon nanotube films for high-performance flexible supercapacitors. Carbon, 2015, 92, 271-296.	10.3	88
61	Flexible and Lightweight Fuel Cell with High Specific Power Density. ACS Nano, 2017, 11, 5982-5991.	14.6	88
62	Doubleâ€Peak Mechanical Properties of Carbonâ€Nanotube Fibers. Small, 2010, 6, 2612-2617.	10.0	87
63	Mechanical and electrical properties of laminated composites containing continuous carbon nanotube film interleaves. Composites Science and Technology, 2016, 127, 113-118.	7.8	87
64	Soft and MRI Compatible Neural Electrodes from Carbon Nanotube Fibers. Nano Letters, 2019, 19, 1577-1586.	9.1	87
65	Facile Assembly of Niâ€“Co Hydroxide Nanoflakes on Carbon Nanotube Network with Highly Electrochemical Capacitive Performance. ACS Applied Materials & Interfaces, 2014, 6, 19630-19637.	8.0	85
66	Vertically Aligned Pearl-like Carbon Nanotube Arrays for Fiber Spinning. Journal of the American Chemical Society, 2008, 130, 1130-1131.	13.7	84
67	One-step strategy to a three-dimensional NiS-reduced graphene oxide hybrid nanostructure for high performance supercapacitors. RSC Advances, 2015, 5, 23073-23079.	3.6	84
68	Electroâ€Induced Mechanical and Thermal Responses of Carbon Nanotube Fibers. Advanced Materials, 2014, 26, 2480-2485.	21.0	82
69	Ultraâ€Lightweight and Highly Adaptive Allâ€Carbon Elastic Conductors with Stable Electrical Resistance. Advanced Functional Materials, 2017, 27, 1606220.	14.9	78
70	Enhancement of Friction between Carbon Nanotubes: An Efficient Strategy to Strengthen Fibers. ACS Nano, 2010, 4, 312-316.	14.6	75
71	In-situ curing of glass fiber reinforced polymer composites via resistive heating of carbon nanotube films. Composites Science and Technology, 2017, 149, 20-27.	7.8	75
72	Direct spinning of high-performance graphene fiber supercapacitor with a three-ply core-sheath structure. Carbon, 2018, 132, 241-248.	10.3	75

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73	Electrically conductive adhesives based on thermoplastic polyurethane filled with silver flakes and carbon nanotubes. Composites Science and Technology, 2016, 129, 191-197.	7.8	73
74	State of the Art of Singleâ€Walled Carbon Nanotube Synthesis on Surfaces. Advanced Materials, 2014, 26, 5898-5922.	21.0	71
75	Interlocked CNT networks with high damping and storage modulus. Carbon, 2015, 86, 46-53.	10.3	68
76	Molecularly Thin Nitride Sheets Stabilized by Titanium Carbide as Efficient Bifunctional Electrocatalysts for Fiber-Shaped Rechargeable Zinc-Air Batteries. Nano Letters, 2020, 20, 2892-2898.	9.1	68
77	Impregnation assisted synthesis of 3D nitrogen-doped porous carbon with high capacitance. Carbon, 2015, 94, 650-660.	10.3	64
78	Functionalization and densification of inter-bundle interfaces for improvement in electrical and thermal transport of carbon nanotube fibers. Carbon, 2016, 105, 248-259.	10.3	64
79	Constructing hierarchical dandelion-like molybdenumâ€“nickelâ€“cobalt ternary oxide nanowire arrays on carbon nanotube fiber for high-performance wearable fiber-shaped asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 21153-21160.	10.3	63
80	Enhanced dielectric and mechanical properties in chlorine-doped continuous CNT sheet reinforced sandwich polyvinylidene fluoride film. Carbon, 2016, 107, 405-414.	10.3	62
81	Strong graphene-interlayered carbon nanotube films with high thermal conductivity. Carbon, 2017, 118, 659-665.	10.3	62
82	Dryâ€Processable Carbon Nanotubes for Functional Devices and Composites. Small, 2014, 10, 4606-4625.	10.0	61
83	Hierarchical carbon nanotube composite yarn muscles. Nanoscale, 2018, 10, 4077-4084.	5.6	60
84	Growth of Close-Packed Semiconducting Single-Walled Carbon Nanotube Arrays Using Oxygen-Deficient TiO₂ Nanoparticles as Catalysts. Nano Letters, 2015, 15, 403-409.	9.1	59
85	Electrochemical conversion of Ni₂(OH)₂CO₃ into Ni(OH)₂ hierarchical nanostructures loaded on a carbon nanotube paper with high electrochemical energy storage performance. Journal of Materials Chemistry A, 2015, 3, 1875-1878.	10.3	59
86	Allâ€inâ€One Bifunctional Oxygen Electrode Films for Flexible Znâ€Air Batteries. Small, 2018, 14, e1803409.	10.0	59
87	Bio-Inspired Aggregation Control of Carbon Nanotubes for Ultra-Strong Composites. Scientific Reports, 2015, 5, 11533.	3.3	58
88	Smart and flexible supercapacitor based on a porous carbon nanotube film and polyaniline hydrogel. RSC Advances, 2016, 6, 24946-24951.	3.6	58
89	Programmable Writing of Graphene Oxide/Reduced Graphene Oxide Fibers for Sensible Networks with in Situ Welded Junctions. ACS Nano, 2014, 8, 4325-4333.	14.6	56
90	Strong and Conductive Dry Carbon Nanotube Films by Microcombing. Small, 2015, 11, 3830-3836.	10.0	56

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91	In-situ embedding zeolitic imidazolate framework derived Coâ€“Nâ€“C bifunctional catalysts in carbon nanotube networks for flexible Znâ€“air batteries. Journal of Energy Chemistry, 2019, 38, 170-176.	12.9	55
92	Gradient Heating Effect Modulated by Hydrophobic/Hydrophilic Carbon Nanotube Network Structures for Ultrafast Solar Steam Generation. ACS Applied Materials & Interfaces, 2021, 13, 19109-19116.	8.0	55
93	Crack-Free and Scalable Transfer of Carbon Nanotube Arrays into Flexible and Highly Thermal Conductive Composite Film. ACS Applied Materials & Interfaces, 2014, 6, 539-544.	8.0	54
94	Oxygen Evolution Assisted Fabrication of Highly Loaded Carbon Nanotube/MnO₂ Hybrid Films for Highâ€Performance Flexible Pseudosupercapacitors. Small, 2016, 12, 2035-2045.	10.0	52
95	Electro curing of oriented bismaleimide between aligned carbon nanotubes for high mechanical and thermal performances. Carbon, 2019, 145, 650-657.	10.3	52
96	Wet-spun PVDF nanofiber separator for direct fabrication of coaxial fiber-shaped supercapacitors. Chemical Engineering Journal, 2020, 400, 125835.	12.7	52
97	Interfacial heat transport in nano-carbon assemblies. Carbon, 2021, 178, 391-412.	10.3	52
98	Enhanced carbon nanotube fibers by polyimide. Applied Physics Letters, 2010, 97, .	3.3	51
99	Polymethylmethacrylate coating on aligned carbon nanotubeâ€“silicon solar cells for performance improvement. Journal of Materials Chemistry A, 2014, 2, 4140-4143.	10.3	51
100	Tuning carbon nanotube assembly for flexible, strong and conductive films. Nanoscale, 2015, 7, 3060-3066.	5.6	51
101	Active carbon wrapped carbon nanotube buckypaper for the electrode ofÂelectrochemical supercapacitors. Journal of Power Sources, 2013, 237, 325-331.	7.8	50
102	Wafer-Scale Transfer of Vertically Aligned Carbon Nanotube Arrays. Journal of the American Chemical Society, 2014, 136, 18156-18162.	13.7	50
103	An interface nanostructured array guided high performance electrochemical actuator. Journal of Materials Chemistry A, 2014, 2, 16836-16841.	10.3	50
104	Largeâ€Stroke Electrochemical Carbon Nanotube/Graphene Hybrid Yarn Muscles. Small, 2018, 14, e1801883.	10.0	50
105	Mechanical and electrical properties of aligned carbon nanotube/carbon matrix composites. Carbon, 2014, 75, 307-313.	10.3	49
106	Aligned Carbon Nanotubes for Highâ€Efficiency Schottky Solar Cells. Small, 2013, 9, 1367-1372.	10.0	48
107	Ni Nanobuffer Layer Provides Light-Weight CNT/Cu Fibers with Superior Robustness, Conductivity, and Ampacity. ACS Applied Materials & Interfaces, 2018, 10, 8197-8204.	8.0	48
108	Aligned coaxial tungsten oxideâ€“carbon nanotube sheet: a flexible and gradient electrochromic film. Chemical Communications, 2012, 48, 8252.	4.1	46

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109	Planar-defect-rich zinc oxide nanoparticles assembled on carbon nanotube films as ultraviolet emitters and photocatalysts. Scientific Reports, 2014, 4, 4728.	3.3	46
110	Growth of Horizontal Semiconducting SWNT Arrays with Density Higher than 100 tubes/Î¼m using Ethanol/Methane Chemical Vapor Deposition. Journal of the American Chemical Society, 2016, 138, 6727-6730.	13.7	46
111	High-efficiency dispersion and sorting of single-walled carbon nanotubes via non-covalent interactions. Journal of Materials Chemistry C, 2017, 5, 11339-11368.	5.5	46
112	Mechanical enhancement effect of the interlayer hybrid CNT film/carbon fiber/epoxy composite. Composites Science and Technology, 2018, 166, 176-182.	7.8	44
113	Hierarchically-structured Co3O4 nanowire arrays grown on carbon nanotube fibers as novel cathodes for high-performance wearable fiber-shaped asymmetric supercapacitors. Applied Surface Science, 2018, 447, 795-801.	6.1	43
114	An ultra-thin, flexible, low-cost and scalable gas diffusion layer composed of carbon nanotubes for high-performance fuel cells. Journal of Materials Chemistry A, 2020, 8, 5986-5994.	10.3	43
115	One-step wet-spinning assembly of twisting-structured graphene/carbon nanotube fiber supercapacitor. Journal of Energy Chemistry, 2020, 51, 434-441.	12.9	43
116	Dependence of structures and properties of carbon nanotube fibers on heating treatment. Journal of Materials Chemistry, 2011, 21, 13772.	6.7	42
117	High performance plasmonic random laser based on nanogaps in bimetallic porous nanowires. Applied Physics Letters, 2013, 103, .	3.3	42
118	The interfacial strength and fracture characteristics of ethanol and polymer modified carbon nanotube fibers in their epoxy composites. Carbon, 2013, 52, 550-558.	10.3	42
119	Effect of the filler structure of carbon nanomaterials on the electrical, thermal, and rheological properties of epoxy composites. Journal of Applied Polymer Science, 2013, 129, 3366-3372.	2.6	42
120	Effect of acidification conditions on the properties of carbon nanotube fibers. Applied Surface Science, 2014, 292, 469-474.	6.1	42
121	Self-plied and twist-stable carbon nanotube yarn artificial muscles driven by organic solvent adsorption. Nanoscale, 2018, 10, 8180-8186.	5.6	42
122	Strong and Robust Electrochemical Artificial Muscles by Ionicâ€Liquidâ€inâ€Nanofiberâ€Sheathed Carbon Nanotube Yarns. Small, 2021, 17, e2006181.	10.0	40
123	SWCNT-modulated folding-resistant sandwich-structured graphene film for high-performance electromagnetic interference shielding. Carbon, 2020, 162, 490-496.	10.3	39
124	Cationic two-dimensional sheets for an ultralight electrostatic polysulfide trap toward high-performance lithium-sulfur batteries. Energy Storage Materials, 2017, 9, 39-46.	18.0	37
125	Large-area growth of ultra-high-density single-walled carbon nanotube arrays on sapphire surface. Nano Research, 2015, 8, 3694-3703.	10.4	36
126	Hierarchically structured VO2@PPy core-shell nanowire arrays grown on carbon nanotube fibers as advanced cathodes for high-performance wearable asymmetric supercapacitors. Carbon, 2018, 139, 21-28.	10.3	36

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127	High performance electrochemical biosensor based on 3D nitrogen-doped reduced graphene oxide electrode and tetrahedral DNA nanostructure. Talanta, 2019, 194, 273-281.	5.5	36
128	Flexible visible-light-driven photoelectrochemical biosensor based on molecularly imprinted nanoparticle intercalation-modulated graphene fiber for ultrasensitive urea detection. Carbon, 2020, 157, 457-465.	10.3	36
129	High-twist-pervaded electrochemical yarn muscles with ultralarge and fast contractile actuations. Materials Horizons, 2020, 7, 3043-3050.	12.2	36
130	The synergetic relationship between the length and orientation of carbon nanotubes in direct spinning of high-strength carbon nanotube fibers. Materials and Design, 2021, 203, 109557.	7.0	36
131	Carbon Nanotube Composite Films with Switchable Transparency. ACS Applied Materials & Interfaces, 2011, 3, 658-661.	8.0	35
132	Dendrimer-linked, renewable and magnetic carbon nanotube aerogels. Materials Horizons, 2014, 1, 232-236.	12.2	35
133	Highâ€Throughput Fabrication of Flexible and Transparent Allâ€Carbon Nanotube Electronics. Advanced Science, 2018, 5, 1700965.	11.2	34
134	Beanâ€Podâ€Inspired 3Dâ€Printed Phase Change Microlattices for Solarâ€Thermal Energy Harvesting and Storage. Small, 2021, 17, e2101093.	10.0	34
135	Binary gradient elution of semiconducting single-walled carbon nanotubes by gel chromatography for their separation according to chirality. Carbon, 2012, 50, 332-335.	10.3	33
136	Macroscopic and Strong Ribbons of Functionality-Rich Metal Oxides from Highly Ordered Assembly of Unilamellar Sheets. Journal of the American Chemical Society, 2015, 137, 13200-13208.	13.7	32
137	Strengthening and toughening effects by strapping carbon nanotube cross-links with polymer molecules. Composites Science and Technology, 2016, 135, 123-127.	7.8	32
138	Ultrastrong and excellent dynamic mechanical properties of carbon nanotube composites. Composites Science and Technology, 2017, 141, 137-144.	7.8	32
139	Vibration Damping of Carbon Nanotube Assembly Materials. Advanced Engineering Materials, 2018, 20, 1700647.	3.5	31
140	Recycling Strategy for Fabricating Low-Cost and High-Performance Carbon Nanotube TFT Devices. ACS Applied Materials & Interfaces, 2017, 9, 15719-15726.	8.0	30
141	Carbon nanotube film based multifunctional composite materials: an overview. Functional Composites and Structures, 2020, 2, 022002.	3.4	30
142	A modified spray-winding approach to enhance the tensile performance of array-based carbon nanotube composite films. Carbon, 2013, 65, 187-195.	10.3	29
143	Ultrastrong carbon nanotube/ bismaleimide composite film with super-aligned and tightly packing structure. Composites Science and Technology, 2015, 117, 176-182.	7.8	29
144	Multilevel composite using carbon nanotube fibers (CNTF). Composites Science and Technology, 2016, 137, 35-43.	7.8	28

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145	Vibration-assisted infiltration of nano-compounds to strengthen and functionalize carbon nanotube fibers. Carbon, 2016, 101, 114-119.	10.3	28
146	A comparison of the twisted and untwisted structures for one-dimensional carbon nanotube assemblies. Materials and Design, 2018, 146, 20-27.	7.0	28
147	Strengthening carbon nanotube fibers with semi-crystallized polyvinyl alcohol and hot-stretching. Composites Science and Technology, 2018, 164, 290-295.	7.8	28
148	Solventâ€Tunable Microstructures of Aligned Carbon Nanotube Films. Advanced Materials Interfaces, 2016, 3, 1600352.	3.7	27
149	Self-sensing coaxial muscle fibers with bi-lengthwise actuation. Materials Horizons, 2021, 8, 2541-2552.	12.2	27
150	Drying induced upright sliding and reorganization of carbon nanotube arrays. Nanotechnology, 2006, 17, 4533-4536.	2.6	26
151	Stress relaxation in carbon nanotube-based fibers for load-bearing applications. Carbon, 2013, 52, 347-355.	10.3	26
152	Transfer of vertically aligned carbon nanotube arrays onto flexible substrates for gecko-inspired dry adhesive application. RSC Advances, 2015, 5, 46749-46759.	3.6	26
153	Direct Intertube Cross-Linking of Carbon Nanotubes at Room Temperature. Nano Letters, 2016, 16, 6541-6547.	9.1	26
154	Continuous growth of carbon nanotube films: From controllable synthesis to real applications. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106359.	7.6	26
155	A highly torsionable fiber-shaped supercapacitor. Journal of Materials Chemistry A, 2017, 5, 4397-4403.	10.3	25
156	Gas infiltration of bromine to enhance the electrical conductivity of carbon nanotube fibers. Materials and Design, 2018, 159, 138-144.	7.0	25
157	Regulation of multidimensional silver nanostructures for high-performance composite conductive adhesives. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106025.	7.6	25
158	Thermal performance of vertically-aligned multi-walled carbon nanotube array grown on platinum film. Carbon, 2014, 77, 266-274.	10.3	24
159	In situ twisting for stabilizing and toughening conductive graphene yarns. Nanoscale, 2017, 9, 11523-11529.	5.6	24
160	3D-Printed Flexible Phase-Change Nonwoven Fabrics toward Multifunctional Clothing. ACS Applied Materials & Interfaces, 2022, 14, 7283-7291.	8.0	24
161	Soft-lock drawing of super-aligned carbon nanotube bundles for nanometre electrical contacts. Nature Nanotechnology, 2022, 17, 278-284.	31.5	24
162	The loading-rate dependent tensile behavior of CNT film and its bismaleimide composite film. Materials and Design, 2017, 117, 37-46.	7.0	23

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163	Fabrication of thermally robust carbon nanotube (CNT)/SiO2 composite films and their high-temperature mechanical properties. Carbon, 2019, 147, 236-241.	10.3	23
164	Understanding the Electrophoretic Separation of Single-Walled Carbon Nanotubes Assisted by Thionine as a Probe. Journal of Physical Chemistry C, 2010, 114, 19234-19238.	3.1	22
165	Designing large-plane conjugated copolymers for the high-yield sorting of semiconducting single-walled carbon nanotubes. Chemical Communications, 2013, 49, 10492.	4.1	22
166	Selective Growth of Subnanometer Diameter Single-Walled Carbon Nanotube Arrays in Hydrogen-Free CVD. Journal of the American Chemical Society, 2016, 138, 12723-12726.	13.7	22
167	Microcombing enables high-performance carbon nanotube composites. Composites Science and Technology, 2016, 123, 92-98.	7.8	22
168	Color-Changing Microfiber-Based Multifunctional Window Screen for Capture and Visualized Monitoring of NH₃. ACS Applied Materials & Interfaces, 2018, 10, 15065-15072.	8.0	22
169	PtFe Alloy Nanoparticles Confined on Carbon Nanotube Networks as Air Cathodes for Flexible and Wearable Energy Devices. ACS Applied Nano Materials, 2019, 2, 7870-7879.	5.0	22
170	Giant two-dimensional titania sheets for constructing a flexible fiber sodium-ion battery with long-term cycling stability. Energy Storage Materials, 2020, 24, 504-511.	18.0	22
171	Understanding the influence of single-walled carbon nanotube dispersion states on the microstructure and mechanical properties of wet-spun fibers. Carbon, 2020, 169, 17-24.	10.3	22
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