Changhong Liu

List of Publications by Year
in descending order

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Version: 2024-02-01

68	5,017	172386	98753
papers	citations	29 h-index	67 g-index

69	69	69	6981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Flexible and All-Solid-State Paperlike Polymer Supercapacitors. Nano Letters, 2010, 10, 4025-4031.	4.5	1,115
2	A Promising Approach to Enhanced Thermoelectric Properties Using Carbon Nanotube Networks. Advanced Materials, 2010, 22, 535-539.	11.1	437
3	Superaligned Carbon Nanotube Arrays, Films, and Yarns: A Road to Applications. Advanced Materials, 2011, 23, 1154-1161.	11.1	391
4	Flexible carbon nanotube/polyaniline paper-like films and their enhanced electrochemical properties. Electrochemistry Communications, 2009, 11, 186-189.	2.3	302
5	Highly oriented carbon nanotube papers made of aligned carbon nanotubes. Nanotechnology, 2008, 19, 075609.	1.3	282
6	High-Performance, Low-Voltage, and Easy-Operable Bending Actuator Based on Aligned Carbon Nanotube/Polymer Composites. ACS Nano, 2011, 5, 1588-1593.	7.3	191
7	High-Density Carbon Nanotube Buckypapers with Superior Transport and Mechanical Properties. Nano Letters, 2012, 12, 4848-4852.	4.5	170
8	Large-Strain, Multiform Movements from Designable Electrothermal Actuators Based on Large Highly Anisotropic Carbon Nanotube Sheets. ACS Nano, 2015, 9, 409-418.	7.3	161
9	Measuring the thermal conductivity of individual carbon nanotubes by the Raman shift method. Nanotechnology, 2009, 20, 145702.	1.3	157
10	Multiresponsive Bidirectional Bending Actuators Fabricated by a Pencilâ€onâ€Paper Method. Advanced Functional Materials, 2016, 26, 7244-7253.	7.8	145
11	Large-Deformation Curling Actuators Based on Carbon Nanotube Composite: Advanced-Structure Design and Biomimetic Application. ACS Nano, 2015, 9, 12189-12196.	7.3	126
12	Harvesting environment energy from water-evaporation over free-standing graphene oxide sponges. Carbon, 2019, 148, 1-8.	5.4	113
13	Thermal Boundary Resistances of Carbon Nanotubes in Contact with Metals and Polymers. Nano Letters, 2009, 9, 3805-3809.	4.5	86
14	High-performance supercapacitors using a nanoporous current collector made from super-aligned carbon nanotubes. Nanotechnology, 2010, 21, 345701.	1.3	85
15	Grapheneâ€Based Actuator with Integratedâ€Sensing Function. Advanced Functional Materials, 2019, 29, 1806057.	7.8	85
16	Transparent actuators and robots based on single-layer superaligned carbon nanotube sheet and polymer composites. Nanoscale, 2016, 8, 6877-6883.	2.8	71
17	A moisture induced self-charging device for energy harvesting and storage. Nano Energy, 2019, 60, 371-376.	8.2	69
18	A photocapacitor based on organometal halide perovskite and PANI/CNT composites integrated using a CNT bridge. Journal of Materials Chemistry A, 2017, 5, 23078-23084.	5.2	68

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19	Well-Constructed CNT Mesh/PANI Nanoporous Electrode and Its Thickness Effect on the Supercapacitor Properties. Journal of Physical Chemistry C, 2012, 116, 26185-26189.	1.5	66
20	Auxetic materials with large negative Poissonâ€™s ratios based on highly oriented carbon nanotube structures. Applied Physics Letters, 2009, 94, .	1.5	62
21	Transparency-switchable actuator based on aligned carbon nanotube and paraffin-polydimethylsiloxane composite. Carbon, 2017, 116, 625-632.	5.4	43
22	A Polymer Supercapacitor Capable of Self-Charging under Light Illumination. Journal of Physical Chemistry C, 2015, 119, 8488-8491.	1.5	42
23	Excellent heat dissipation properties of the super-aligned carbon nanotube films. RSC Advances, 2016, 6, 61686-61694.	1.7	42
24	Modified secondary lithium metal batteries with the polyanilineâ€“carbon nanotube composite buffer layer. Chemical Communications, 2015, 51, 322-325.	2.2	38
25	A Demo Opto-electronic Power Source Based on Single-Walled Carbon Nanotube Sheets. ACS Nano, 2010, 4, 4701-4706.	7.3	34
26	Effect of an Auxiliary Plate on Passive Heat Dissipation of Carbon Nanotube-Based Materials. Nano Letters, 2018, 18, 1770-1776.	4.5	34
27	Advances of CNT-based systems in thermal management. Nano Research, 2021, 14, 2471-2490.	5.8	34
28	A survey of hybrid energy devices based on supercapacitors. Green Energy and Environment, 2023, 8, 972-988.	4.7	33
29	Enhancement of Natural Convection by Carbon Nanotube Films Covered Microchannel-Surface for Passive Electronic Cooling Devices. ACS Applied Materials & Interfaces, 2016, 8, 31202-31211.	4.0	32
30	Hard Carbon Nanotube Sponges for Highly Efficient Cooling via Moisture Absorptionâ€“Desorption Process. ACS Nano, 2020, 14, 14091-14099.	7.3	31
31	A new type of secondary hybrid battery showing excellent performances. Nano Energy, 2015, 12, 486-493.	8.2	29
32	â€œSweat-chargeableâ€•on-skin supercapacitors for practical wearable energy applications. Energy Storage Materials, 2021, 38, 9-16.	9.5	29
33	Efficient Natural-Convective Heat Transfer Properties of Carbon Nanotube Sheets and Their Roles on the Thermal Dissipation. ACS Applied Materials & Interfaces, 2014, 6, 3075-3080.	4.0	26
34	Hydrocapacitor for Harvesting and Storing Energy from Water Movement. ACS Applied Materials & Interfaces, 2018, 10, 35273-35280.	4.0	26
35	Tailorable Capacitive Tactile Sensor Based on Stretchable and Dissolvable Porous Silver Nanowire/Polyvinyl Alcohol Nanocomposite Hydrogel for Wearable Human Motion Detection. Advanced Materials Interfaces, 2021, 8, 2100998.	1.9	26
36	Hybrid energy storage devices combining carbon-nanotube/polyaniline supercapacitor with lead-acid battery assembled through a â€œdirectly-insertedâ€•method. RSC Advances, 2014, 4, 26378-26382.	1.7	24

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37	Interfacial thermal resistance and thermal rectification in carbon nanotube film-copper systems. Nanoscale, 2017, 9, 3133-3139.	2.8	24
38	Directly measuring of thermal pulse transfer in one-dimensional highly aligned carbon nanotubes. Scientific Reports, 2013, 3, 2549.	1.6	23
39	A super compact self-powered device based on paper-like supercapacitors. Journal of Materials Chemistry A, 2019, 7, 3642-3647.	5.2	22
40	Conversion of low-grade heat via thermal-evaporation-induced electricity generation on nanostructured carbon films. Applied Thermal Engineering, 2020, 166, 114623.	3.0	22
41	Gravity-Induced Self-Charging in Carbon Nanotube/Polymer Supercapacitors. Journal of Physical Chemistry C, 2019, 123, 5249-5254.	1.5	21
42	Photodetection and Photoswitch Based On Polarized Optical Response of Macroscopically Aligned Carbon Nanotubes. Nano Letters, 2016, 16, 6378-6382.	4.5	18
43	Enhancement of evaporative heat transfer on carbon nanotube sponges by electric field reinforced wettability. Applied Surface Science, 2018, 454, 262-269.	3.1	18
44	Temperature Dependence of Thermal Boundary Resistances between Multiwalled Carbon Nanotubes and Some Typical Counterpart Materials. ACS Nano, 2012, 6, 3057-3062.	7.3	14
45	Electrical potential induced switchable wettability of super-aligned carbon nanotube films. Applied Surface Science, 2018, 427, 628-635.	3.1	13
46	A universal in situ strategy for charging supercapacitors. Journal of Materials Chemistry A, 2019, 7, 15131-15136.	5.2	13
47	A demo solar thermoelectric conversion device based on Bi2Te3 and carbon nanotubes. Solar Energy Materials and Solar Cells, 2015, 141, 331-336.	3.0	9
48	Laser-Graving-Assisted Fabrication of Foldable Supercapacitors for On-Chip Energy Storage. ACS Applied Materials & Interfaces, 2019, 11, 42172-42178.	4.0	9
49	Monolithic superaligned carbon nanotube composite with integrated rewriting, actuating and sensing multifunctions. Nano Research, 2021, 14, 2456.	5.8	9
50	Nanostructured Co₃O₄ Asymmetrically Deposited on a Single Carbon Cloth for an All-Solid-State Integrated Hybrid Device with Reversible Zinc-Air High-Energy Conversion and Asymmetric Supercapacitive High-Power Delivery. Energy & Fuels, 2021, 35, 12706-12717.	2.5	8
51	Schottky contact of an artificial polymer semiconductor composed of poly(dimethylsiloxane) and multiwall carbon nanotubes. Journal of Materials Chemistry A, 2015, 3, 19539-19544.	5.2	7
52	High Waterâ€Absorbent and Phaseâ€Change Heat Dissipation Materials Based on Superâ€Aligned Crossâ€Stack CNT Films. Advanced Engineering Materials, 2019, 21, 1801216.	1.6	7
53	Fast-response, agile and functional soft actuators based on highly-oriented carbon nanotube thin films. Nanotechnology, 2020, 31, 085501.	1.3	7
54	Structural Effects on a Sandwich-Like Hydrocapacitor and Its Mechanism Research. ACS Applied Energy Materials, 2020, 3, 9468-9476.	2.5	7

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55	A new type of flexible energy harvesting device working with micro water droplets achieving high output. Journal of Materials Chemistry A, 2021, 9, 23555-23562.	5.2	7
56	Toy-blocks-inspired programmable supercapacitors with high energy density. Chemical Engineering Journal, 2022, 445, 136788.	6.6	7
57	Catalyzed Filling of Carbon Nanotube Array with Graphite and the Thermal Properties of the Composites. Journal of Physical Chemistry C, 2008, 112, 5840-5842.	1.5	6
58	A heat flux modulator from carbon nanotubes. Nanoscale, 2015, 7, 13759-13764.	2.8	6
59	Transparent actuator made by highly-oriented carbon nanotube film for bio-inspired optical systems. Nanotechnology, 2020, 31, 065501.	1.3	6
60	Energy Harvesting and Storage by Water Infiltration of Eggshell Membrane. Energy Technology, 2020, 8, 1901192.	1.8	6
61	Actuators: Multiresponsive Bidirectional Bending Actuators Fabricated by a Pencilâ€onâ€Paper Method (Adv. Funct. Mater. 40/2016). Advanced Functional Materials, 2016, 26, 7368-7368.	7.8	5
62	Machining Carbon Nanotubes into Uniform Slices. Journal of Nanoscience and Nanotechnology, 2007, 7, 4473-4477.	0.9	4
63	The adsorption state and the evolution of field emission properties of graphene edges at different temperatures. RSC Advances, 2018, 8, 31830-31834.	1.7	4
64	The influence of charging and discharging on the thermal properties of a carbon nanotube/polyaniline nanocomposite electrode. RSC Advances, 2019, 9, 7629-7634.	1.7	4
65	Investigation of Dropwise Condensation on a Super-Aligned Carbon Nanotube Mesh-Coated Surface. Langmuir, 2021, 37, 2629-2638.	1.6	2
66	Enhanced light transmission of carbon nanotube film by ultrathin oxide coatings. AIP Advances, 2020, 10, 075304.	0.6	1
67	Deformation Effect on the Electrical Properties of a Flexible Organic Semiconductor composed of Poly(dimethylsiloxane) and Multiwalled Carbon Nanotubes. Advanced Electronic Materials, 2016, 2, 1500421.	2.6	0
68	Tailorable Capacitive Tactile Sensor Based on Stretchable and Dissolvable Porous Silver Nanowire/Polyvinyl Alcohol Nanocomposite Hydrogel for Wearable Human Motion Detection (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0	