

Shoushan Fan

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.

169
papers

8,749
citations

45
h-index

91
g-index

180
ext. papers

9,916
ext. citations

10.2
avg, IF

6.14
L-index

#	Paper	IF	Citations
169	Iodide-substitution-induced phase transition of chemical-vapor-deposited MoS ₂ . <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1638-1644	7.1	
168	Gate-tunable contact-induced Fermi-level shift in semimetal.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119016119	11.5	1
167	Tailorable Capacitive Tactile Sensor Based on Stretchable and Dissolvable Porous Silver Nanowire/Polyvinyl Alcohol Nanocomposite Hydrogel for Wearable Human Motion Detection (Adv. Mater. Interfaces 20/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170110	4.6	
166	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
165	Enhanced Visible-Light Absorption and Photocurrent Generation of Three-Dimensional MetalDielectric Hybrid-Structured Films. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10542-10552	6.1	1
164	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
163	Interfacial Gated Graphene Photodetector with Broadband Response. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22796-22805	9.5	4
162	Few-Layer MoS ₂ Nanosheet/Carbon Nanotube Composite Films for Long-Lifetime Lithium Storage and Hydrogen Generation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4754-4762	5.6	6
161	Boosting the Oxidative Potential of Polyethylene Glycol-Based Polymer Electrolyte to 4.36V by Spatially Restricting Hydroxyl Groups for High-Voltage Flexible Lithium-Ion Battery Applications. <i>Advanced Science</i> , 2021 , 8, e2100736	13.6	11
160	Unraveling Shuttle Effect and Suppression Strategy in Lithium/Sulfur Cells by In Situ/Operando X-ray Absorption Spectroscopic Characterization. <i>Energy and Environmental Materials</i> , 2021 , 4, 222-228	13	13
159	Advances of CNT-based systems in thermal management. <i>Nano Research</i> , 2021 , 14, 2471-2490	10	8
158	Nanostructured Co ₃ O ₄ 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. <i>Energy & Fuels</i> , 2021 , 35, 12706-12717	4.1	2
157	Reconfigurable Tunneling Transistors Heterostructured by an Individual Carbon Nanotube and MoS. <i>Nano Letters</i> , 2021 , 21, 6843-6850	11.5	4
156	Substrate Engineering-Tailored Fabrication of Aligned Graphene Nanoribbon Arrays: Implications for Graphene Electronic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 13838-13847	5.6	0
155	Lithium Storage Mechanism and Application of Micron-Sized Lattice-Reversible Binary Intermetallic Compounds as High-Performance Flexible Lithium-Ion Battery Anodes. <i>Small</i> , 2021 , e2105172	11	2
154	Ultra-stretchable supercapacitors based on biaxially pre-strained super-aligned carbon nanotube films. <i>Nanoscale</i> , 2020 , 12, 24259-24265	7.7	2
153	Free-standing hybrid films comprising of ultra-dispersed titania nanocrystals and hierarchical conductive network for excellent high rate performance of lithium storage. <i>Nano Research</i> , 2020 , 14, 2301	10	3

152	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	
151	Optical Phonon Scattering Dominated Transport in Individual Suspended Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000103	1.3	
150	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
149	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
148	Ionic Sensing Hydrogels: Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications (Adv. Funct. Mater. 12/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070080	15.6	1
147	Bidirectional micro-actuators based on eccentric coaxial composite oxide nanofiber. <i>Nano Research</i> , 2020 , 13, 2451-2459	10	1
146	Progress and challenges of flexible lithium ion batteries. <i>Journal of Power Sources</i> , 2020 , 454, 227932	8.9	46
145	Mixed-Dimensional Vertical Point pn Junctions. <i>ACS Nano</i> , 2020 , 14, 3181-3189	16.7	10
144	Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909616	15.6	16
143	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
142	Energy Harvesting and Storage by Water Infiltration of Eggshell Membrane. <i>Energy Technology</i> , 2020 , 8, 1901192	3.5	2
141	Hard Carbon Nanotube Sponges for Highly Efficient Cooling Moisture Absorption-Desorption Process. <i>ACS Nano</i> , 2020 , 14, 14091-14099	16.7	15
140	A lightly Fe-doped (NiS ₂ /MoS ₂)/carbon nanotube hybrid electrocatalyst film with laser-drilled micropores for stabilized overall water splitting and pH-universal hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17527-17536	13	33
139	Seeded growth of high-quality transition metal dichalcogenide single crystals via chemical vapor transport. <i>CrystEngComm</i> , 2020 , 22, 8017-8022	3.3	0
138	Enhanced light transmission of carbon nanotube film by ultrathin oxide coatings. <i>AIP Advances</i> , 2020 , 10, 075304	1.5	0
137	Structural Effects on a Sandwich-Like Hydrocapacitor and Its Mechanism Research. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9468-9476	6.1	2
136	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, 2070048	1.6	
135	Macroscopic Carbon Nanotube Structures for Lithium Batteries. <i>Small</i> , 2020 , 16, e1902719	11	14

134	A super compact self-powered device based on paper-like supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3642-3647	13	16
133	A universal in situ strategy for charging supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15131-15136	13	6
132	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
131	Amorphous MoS ₂ Photodetector with Ultra-Broadband Response. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1314-1321	4	39
130	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
129	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
128	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
127	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019 , 12, 1105-1113	10	25
126	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
125	The influence of charging and discharging on the thermal properties of a carbon nanotube/polyaniline nanocomposite electrode.. <i>RSC Advances</i> , 2019 , 9, 7629-7634	3.7	2
124	High Water-Absorbent and Phase-Change Heat Dissipation Materials Based on Super-Aligned Cross-Stack CNT Films. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801216	3.5	6
123	Laser-Graving-Assisted Fabrication of Foldable Supercapacitors for On-Chip Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42172-42178	9.5	5
122	Watching Dynamic Self-Assembly of Web Buckles in Strained MoS Thin Films. <i>ACS Nano</i> , 2019 , 13, 3106-3116	11.6	17
121	Gravity-Induced Self-Charging in Carbon Nanotube/Polymer Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5249-5254	3.8	10
120	Phase-transition modulated, high-performance dual-mode photodetectors based on WSe ₂ /VO ₂ heterojunctions. <i>Applied Physics Reviews</i> , 2019 , 6, 041407	17.3	27
119	Graphene-Based Actuator with Integrated-Sensing Function. <i>Advanced Functional Materials</i> , 2019 , 29, 1806057	15.6	52
118	Effect of an Auxiliary Plate on Passive Heat Dissipation of Carbon Nanotube-Based Materials. <i>Nano Letters</i> , 2018 , 18, 1770-1776	11.5	22
117	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. <i>Nature Catalysis</i> , 2018 , 1, 326-331	36.5	42

116	Multifunctional Interlayer Based on Molybdenum Diphosphide Catalyst and Carbon Nanotube Film for Lithium-Sulfur Batteries. <i>Small</i> , 2018 , 14, 1702853	11	108
115	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
114	Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 19972-19978	7.7	37
113	Hydrocapacitor for Harvesting and Storing Energy from Water Movement. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35273-35280	9.5	16
112	The adsorption state and the evolution of field emission properties of graphene edges at different temperatures.. <i>RSC Advances</i> , 2018 , 8, 31830-31834	3.7	3
111	Stressed carbon nanotube devices for high tunability, high quality factor, single mode GHz resonators. <i>Nano Research</i> , 2018 , 11, 5812-5822	10	5
110	Carbon Nanotube Film Gate in Vacuum Electronic Devices. <i>Nano Letters</i> , 2018 , 18, 4691-4696	11.5	6
109	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
108	Scanning electron microscopy imaging of single-walled carbon nanotubes on substrates. <i>Nano Research</i> , 2017 , 10, 1804-1818	10	10
107	Interfacial thermal resistance and thermal rectification in carbon nanotube film-copper systems. <i>Nanoscale</i> , 2017 , 9, 3133-3139	7.7	19
106	Epitaxial Growth of Aligned and Continuous Carbon Nanofibers from Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 1257-1263	16.7	17
105	Inverse Hysteresis and Ultrasmall Hysteresis Thin-Film Transistors Fabricated Using Sputtered Dielectrics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600483	6.4	7
104	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
103	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
102	Self-Expansion Construction of Ultralight Carbon Nanotube Aerogels with a 3D and Hierarchical Cellular Structure. <i>Small</i> , 2017 , 13, 1700966	11	9
101	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
100	SWCNT-MoS ₂ -SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1604469	24	26
99	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

98	A photocapacitor based on organometal halide perovskite and PANI/CNT composites integrated using a CNT bridge. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23078-23084	13	47
97	Carbon-Nanotube-Confined Vertical Heterostructures with Asymmetric Contacts. <i>Advanced Materials</i> , 2017 , 29, 1702942	24	14
96	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	9.5	21
95	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017 , 3, e1603231	14.3	18
94	Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide PtTe. <i>Nature Communications</i> , 2017 , 8, 257	17.4	239
93	Perovskite photodetectors prepared by flash evaporation printing. <i>RSC Advances</i> , 2017 , 7, 34795-34800	3.7	7
92	Flash-evaporation printing methodology for perovskite thin films. <i>NPG Asia Materials</i> , 2017 , 9, e395-e395	10.3	12
91	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
90	Multiresponsive Bidirectional Bending Actuators Fabricated by a Pencil-on-Paper Method. <i>Advanced Functional Materials</i> , 2016 , 26, 7244-7253	15.6	124
89	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
88	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016 , 2, e1501764	14.3	281
87	Actuators: Multiresponsive Bidirectional Bending Actuators Fabricated by a Pencil-on-Paper Method (Adv. Funct. Mater. 40/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 7368-7368	15.6	3
86	Cross-stacked carbon nanotubes assisted self-separation of free-standing GaN substrates by hydride vapor phase epitaxy. <i>Scientific Reports</i> , 2016 , 6, 28620	4.9	11
85	Observation of Charge Generation and Transfer during CVD Growth of Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 4102-9	11.5	23
84	Grouped and Multistep Nanoheteroepitaxy: Toward High-Quality GaN on Quasi-Periodic Nano-Mask. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18208-14	9.5	10
83	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
82	A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. <i>ACS Central Science</i> , 2016 , 2, 169-74	16.8	272
81	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

80	Transparent actuators and robots based on single-layer superaligned carbon nanotube sheet and polymer composites. <i>Nanoscale</i> , 2016 , 8, 6877-83	7.7	60
79	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
78	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
77	Binder-free polymer encapsulated sulfur/carbon nanotube composite cathodes for high performance lithium batteries. <i>Carbon</i> , 2016 , 96, 1053-1059	10.4	59
76	Deformation Effect on the Electrical Properties of a Flexible Organic Semiconductor composed of Poly(dimethylsiloxane) and Multiwalled Carbon Nanotubes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500-1511	6.4	41
75	Dielectric-Like Behavior of Graphene in Au Plasmon Resonator. <i>Nanoscale Research Letters</i> , 2016 , 11, 541	5	1
74	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe ₂ . <i>Nature Physics</i> , 2016 , 12, 1105-1110	16.2	506
73	Photodetection and Photoswitch Based On Polarized Optical Response of Macroscopically Aligned Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 6378-6382	11.5	12
72	Interface dipole enhancement effect and enhanced Rayleigh scattering. <i>Nano Research</i> , 2015 , 8, 303-319	10	11
71	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
70	Fano resonance boosted cascaded optical field enhancement in a plasmonic nanoparticle-in-cavity nanoantenna array and its SERS application. <i>Light: Science and Applications</i> , 2015 , 4, e296-e296	16.7	45
69	Freestanding macroscopic metal-oxide nanotube films derived from carbon nanotube film templates. <i>Nano Research</i> , 2015 , 8, 2024-2032	10	4
68	Linearly polarized light emission from quantum dots with plasmonic nanoantenna arrays. <i>Nano Letters</i> , 2015 , 15, 2951-7	11.5	42
67	Ultra-stretchable conductors based on buckled super-aligned carbon nanotube films. <i>Nanoscale</i> , 2015 , 7, 10178-85	7.7	48
66	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
65	A Polymer Supercapacitor Capable of Self-Charging under Light Illumination. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8488-8491	3.8	30
64	Nanocarbon/Metal Oxide Hybrids for Lithium Ion Batteries 2015 , 87-118		
63	Grain-boundary-dependent CO ₂ electroreduction activity. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4606-9	16.4	456

62	Schottky contact of an artificial polymer semiconductor composed of poly(dimethylsiloxane) and multiwall carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19539-19544	13	6
61	Reversibility of Noble Metal-Catalyzed Aprotic Li-O ₂ Batteries. <i>Nano Letters</i> , 2015 , 15, 8084-90	11.5	139
60	Large-Deformation Curling Actuators Based on Carbon Nanotube Composite: Advanced-Structure Design and Biomimetic Application. <i>ACS Nano</i> , 2015 , 9, 12189-96	16.7	104
59	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
58	Highly Nitridated Graphene ₂ S Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015 , 5, 1501369	21.8	87
57	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
56	Fast Adaptive Thermal Camouflage Based on Flexible VO ₂ /Graphene/CNT Thin Films. <i>Nano Letters</i> , 2015 , 15, 8365-70	11.5	180
55	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
54	Ice-assisted transfer of carbon nanotube arrays. <i>Nano Letters</i> , 2015 , 15, 1843-8	11.5	9
53	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
52	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
51	Hybrid energy storage devices combining carbon-nanotube/polyaniline supercapacitor with lead-acid battery assembled through a directly-inserted method. <i>RSC Advances</i> , 2014 , 4, 26378-26382	3.7	19
50	Metal-film-assisted ultra-clean transfer of single-walled carbon nanotubes. <i>Nano Research</i> , 2014 , 7, 981-989	15	
49	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
48	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
47	Applications of carbon nanotubes in high performance lithium ion batteries. <i>Frontiers of Physics</i> , 2014 , 9, 351-369	3.7	39
46	Broadband asymmetric transmission of optical waves from spiral plasmonic metamaterials. <i>Applied Physics Letters</i> , 2014 , 104, 121112	3.4	26
45	In situ prepared nano-crystalline TiO ₂ /poly(methyl methacrylate) hybrid enhanced composite polymer electrolyte for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5955	13	101

44	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
43	Graphene as discharge layer for electron beam lithography on insulating substrate. <i>Applied Physics Letters</i> , 2013 , 103, 113107	3.4	5
42	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
41	Thermoacoustic chips with carbon nanotube thin yarn arrays. <i>Nano Letters</i> , 2013 , 13, 4795-801	11.5	57
40	Modeling and optimization of ambipolar graphene transistors in the diffusive limit. <i>Journal of Applied Physics</i> , 2013 , 114, 164508	2.5	1
39	Organic polymer material with a multi-electron process redox reaction: towards ultra-high reversible lithium storage capacity. <i>RSC Advances</i> , 2013 , 3, 3227	3.7	29
38	High-strength composite yarns derived from oxygen plasma modified super-aligned carbon nanotube arrays. <i>Nano Research</i> , 2013 , 6, 208-215	10	32
37	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
36	Well-Constructed CNT Mesh/PANI Nanoporous Electrode and Its Thickness Effect on the Supercapacitor Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26185-26189	3.8	57
35	High quality GaN epilayers grown on carbon nanotube patterned sapphire substrate by metalorganic vapor phase epitaxy. <i>CrystEngComm</i> , 2012 , 14, 4728	3.3	16
34	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
33	Modulating lateral strain in GaN-based epitaxial layers by patterning sapphire substrates with aligned carbon nanotube films. <i>Nano Research</i> , 2012 , 5, 646-653	10	13
32	Binder-free LiCoO ₂ /carbon nanotube cathodes for high-performance lithium ion batteries. <i>Advanced Materials</i> , 2012 , 24, 2294-8	24	243
31	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
30	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
29	Cross-Stacked Superaligned Carbon Nanotube Films for Transparent and Stretchable Conductors. <i>Advanced Functional Materials</i> , 2011 , 21, 2721-2728	15.6	142
28	Superaligned carbon nanotube arrays, films, and yarns: a road to applications. <i>Advanced Materials</i> , 2011 , 23, 1154-61	24	349
27	UV-based nanoimprinting lithography with a fluorinated flexible stamp. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 021015	1.3	5

26	High frequency response of carbon nanotube thin film speaker in gases. <i>Journal of Applied Physics</i> , 2011 , 110, 084311	2.5	56
25	Superaligned arrays, films, and yarns of carbon nanotubes: a road toward applications. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2011 , 41, 390-403	1.5	3
24	Nanoscale field emission in inert gas under atmospheric pressure. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 562-566	1.3	8
23	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
22	Scratch-resistant, highly conductive, and high-strength carbon nanotube-based composite yarns. <i>ACS Nano</i> , 2010 , 4, 5827-34	16.7	217
21	Auxetic materials with large negative Poisson's ratios based on highly oriented carbon nanotube structures. <i>Applied Physics Letters</i> , 2009 , 94, 253111	3.4	54
20	Periodically striped films produced from super-aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2009 , 20, 335705	3.4	31
19	A process study of electron beam nano-lithography and deep etching with an ICP system. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1665-1671		2
18	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
17	Flexible, stretchable, transparent carbon nanotube thin film loudspeakers. <i>Nano Letters</i> , 2008 , 8, 4539-4545	1.5	408
16	Fabrication and properties of aligned multiwalled carbon nanotube-reinforced epoxy composites. <i>Journal of Materials Research</i> , 2008 , 23, 2975-2983	2.5	74
15	Spherical field emission cathode based on carbon nanotube paste and its application in luminescent bulbs. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1404		7
14	A low-vacuum ionization gauge with HfC-modified carbon nanotube field emitters. <i>Applied Physics Letters</i> , 2008 , 92, 153105	3.4	17
13	Barium-functionalized multiwalled carbon nanotube yarns as low-work-function thermionic cathodes. <i>Applied Physics Letters</i> , 2008 , 92, 153108	3.4	25
12	Conventional triode ionization gauge with carbon nanotube cold electron emitter. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 1-4	2.9	7
11	Thermionic emission and work function of multiwalled carbon nanotube yarns. <i>Physical Review B</i> , 2006 , 73,	3.3	95
10	High quality light guide plates that can control the illumination angle based on microprism structures. <i>Applied Physics Letters</i> , 2004 , 85, 6016-6018	3.4	53
9	Polarized incandescent light emission from carbon nanotubes. <i>Applied Physics Letters</i> , 2003 , 82, 1763-1765	1.5	72

8	Nanotechnology: spinning continuous carbon nanotube yarns. <i>Nature</i> , 2002 , 419, 801	50.4	926
7	Raman spectra of SiC nanorods with different excitation wavelengths. <i>Science Bulletin</i> , 2001 , 46, 1865-1866		3
6	Silicon nanowires grown on iron-patterned silicon substrates. <i>Applied Physics Letters</i> , 2000 , 76, 3020-3023	4	35
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4	A new type of flexible energy harvesting device working with micro water droplets achieving high output. <i>Journal of Materials Chemistry A</i> ,	13	1
3	Glassy magnetic ground state in layered compound MnSb ₂ Te ₄ . <i>Science China Materials</i> ,1	7.1	2
2	Tailorable Capacitive Tactile Sensor Based on Stretchable and Dissolvable Porous Silver Nanowire/Polyvinyl Alcohol Nanocomposite Hydrogel for Wearable Human Motion Detection. <i>Advanced Materials Interfaces</i> ,2100998	4.6	8
1	SEM imaging of insulating specimen through a transparent conducting veil of carbon nanotube. <i>Nano Research</i> ,1	10	0