

Yuanyuan Shang

List of Publications by Citations

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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.

60
papers

2,259
citations

26
h-index

47
g-index

62
ext. papers

2,616
ext. citations

9.3
avg, IF

4.7
L-index

#	Paper	IF	Citations
60	Core-double-shell, carbon nanotube@polypyrrole@MnO ₂ sponge as freestanding, compressible supercapacitor electrode. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5228-34	9.5	269
59	MWCNT/V ₂ O ₅ core/shell sponge for high areal capacity and power density Li-ion cathodes. <i>ACS Nano</i> , 2012 , 6, 7948-55	16.7	219
58	Super-stretchable spring-like carbon nanotube ropes. <i>Advanced Materials</i> , 2012 , 24, 2896-900	24	165
57	Graphene nanoribbon aerogels unzipped from carbon nanotube sponges. <i>Advanced Materials</i> , 2014 , 26, 3241-7	24	143
56	A high-capacity lithium-air battery with Pd modified carbon nanotube sponge cathode working in regular air. <i>Carbon</i> , 2013 , 62, 288-295	10.4	106
55	Synthesis and characterization of a new hierarchical reinforcement by chemically grafting graphene oxide onto carbon fibers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18748		102
54	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. <i>Nano Research</i> , 2014 , 7, 209-218	10	98
53	Macroscopic, flexible, high-performance graphene ribbons. <i>ACS Nano</i> , 2013 , 7, 10225-32	16.7	85
52	Self-stretchable, helical carbon nanotube yarn supercapacitors with stable performance under extreme deformation conditions. <i>Nano Energy</i> , 2015 , 12, 401-409	17.1	84
51	Overtwisted, resoluble carbon nanotube yarn entanglement as strain sensors and rotational actuators. <i>ACS Nano</i> , 2013 , 7, 8128-35	16.7	80
50	Highly twisted double-helix carbon nanotube yarns. <i>ACS Nano</i> , 2013 , 7, 1446-53	16.7	73
49	Elastic improvement of carbon nanotube sponges by depositing amorphous carbon coating. <i>Carbon</i> , 2014 , 76, 19-26	10.4	61
48	A flexible gas sensor based on single-walled carbon nanotube-Fe ₂ O ₃ composite film. <i>Applied Surface Science</i> , 2017 , 405, 405-411	6.7	55
47	Multifunctional graphene sheet-nanoribbon hybrid aerogels. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14994-15000	13	46
46	High-strength carbon nanotube fibers by twist-induced self-strengthening. <i>Carbon</i> , 2017 , 119, 47-55	10.4	44
45	Stretchable and transparent electroluminescent device driven by triboelectric nanogenerator. <i>Nano Energy</i> , 2019 , 58, 410-418	17.1	43
44	Meter-Long Spiral Carbon Nanotube Fibers Show Ultrauniformity and Flexibility. <i>Nano Letters</i> , 2016 , 16, 1768-75	11.5	42

43	Highly flexible all-solid-state supercapacitors based on carbon nanotube/polypyrrole composite films and fibers. <i>RSC Advances</i> , 2016 , 6, 62062-62070	3.7	40
42	Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. <i>Small</i> , 2017 , 13, 1702422	11	38
41	Helical graphene oxide fibers as a stretchable sensor and an electrocapillary sucker. <i>Nanoscale</i> , 2016 , 8, 10659-68	7.7	36
40	Design and understanding of core/branch-structured VS nanosheets@CNTs as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2019 , 11, 13343-13353	7.7	32
39	Large-Deformation, Multifunctional Artificial Muscles Based on Single-Walled Carbon Nanotube Yarns. <i>Advanced Engineering Materials</i> , 2015 , 17, 14-20	3.5	32
38	Elastic carbon nanotube straight yarns embedded with helical loops. <i>Nanoscale</i> , 2013 , 5, 2403-10	7.7	32
37	A General Method for the Chemical Synthesis of Large-Scale, Seamless Transition Metal Dichalcogenide Electronics. <i>Advanced Materials</i> , 2018 , 30, e1706215	24	29
36	Flexible and multi-form solid-state supercapacitors based on polyaniline/graphene oxide/CNT composite films and fibers. <i>Diamond and Related Materials</i> , 2019 , 92, 198-207	3.5	29
35	Soft and wrinkled carbon membranes derived from petals for flexible supercapacitors. <i>Scientific Reports</i> , 2017 , 7, 45378	4.9	27
34	High-performance Li-ion batteries based on graphene quantum dot wrapped carbon nanotube hybrid anodes. <i>Nano Research</i> , 2020 , 13, 1044-1052	10	26
33	Water-responsive helical graphene-oxide fibers incorporating a continuous carbon nanotube network. <i>Carbon</i> , 2018 , 132, 394-400	10.4	24
32	Interconnected CuS nanowalls with rough surfaces grown on nickel foam as high-performance electrodes for supercapacitors. <i>RSC Advances</i> , 2016 , 6, 59976-59983	3.7	23
31	Application-Driven Carbon Nanotube Functional Materials. <i>ACS Nano</i> , 2021 , 15, 7946-7974	16.7	23
30	Highly Stretchable and Compressible Carbon Nanofiber/Polymer Hydrogel Strain Sensor for Human Motion Detection. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900813	3.9	18
29	Efficient purification of single-walled carbon nanotube fibers by instantaneous current injection and acid washing. <i>RSC Advances</i> , 2016 , 6, 97865-97872	3.7	16
28	An adhesive and self-healable hydrogel with high stretchability and compressibility for human motion detection. <i>Composites Science and Technology</i> , 2021 , 213, 108948	8.6	13
27	High-loading FeO/SWNT composite films for lithium-ion battery applications. <i>Nanotechnology</i> , 2017 , 28, 345703	3.4	11
26	Improving Carbon Nanotube-Silicon Solar Cells by Solution Processable Metal Chlorides. <i>Solar Rrl</i> , 2019 , 3, 1900147	7.1	11

25	Nitrogen-doped carbon nanotube supported double-shelled hollow composites for asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2018 , 42, 150-160	3.6	11
24	Synthesis of V ₂ O ₅ microspheres by spray pyrolysis as cathode material for supercapacitors. <i>Materials Research Express</i> , 2018 , 5, 036306	1.7	7
23	Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. <i>Nano Research</i> , 2012 , 5, 595-604	10	7
22	High performance carbon nanotube/polymer composite fibers and water-driven actuators. <i>Composites Science and Technology</i> , 2021 , 206, 108676	8.6	7
21	Highly Stretchable Carbon Nanotube Fibers with Tunable and Stable Light Emission. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801126	3.5	7
20	Bubble-promoted assembly of hierarchical, porous Ag ₂ S nanoparticle membranes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24721		5
19	Mechanical force-induced assembly of one-dimensional nanomaterials. <i>Nano Research</i> , 2020 , 13, 1191-1204	10	5
18	Synergistic CNFs/CoS/MoS Flexible Films with Unprecedented Selectivity for NO Gas at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29778-29786	9.5	4
17	Flexible and highly responsive photodetectors based on heterostructures of MoS ₂ and all-carbon transistors. <i>Nanotechnology</i> , 2021 , 32,	3.4	4
16	Carbon nanotube spiderweb promoted growth of hierarchical transition metal dichalcogenide nanostructures for seamless devices. <i>Nanotechnology</i> , 2020 , 31, 365601	3.4	3
15	Carbon Nanotubes: Super-Stretchable Spring-Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). <i>Advanced Materials</i> , 2012 , 24, 2935-2935	24	3
14	A QD-based composite film as photon down-converter in CNT/Si solar cells. <i>Nano Research</i> , 2021 , 14, 3893	10	3
13	Well dispersive Ni nanoparticles embedded in core-shell supports as efficient catalysts for 4-nitrophenol reduction. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	2
12	Stretchable Carbon Nanotube-Polymer Composites with Homogenous Deformation and as Liquid Droplet Sensors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901354	4.6	2
11	Intrinsically flexible CNT-TiO ₂ -Interlaced film for NO sensing at room temperature. <i>Applied Surface Science</i> , 2022 , 579, 152172	6.7	2
10	An etch-doping strategy: cobalt-iron bimetallic phosphide as a bifunctional electrocatalyst for highly efficient water splitting. <i>New Journal of Chemistry</i> , 2021 , 45, 8527-8534	3.6	2
9	Flexible FeS@FeO/CNT composite films as self-supporting anodes for high-performance lithium-ion batteries. <i>Nanotechnology</i> , 2021 , 32,	3.4	1
8	Layered NiCoP Electrode Synthesized by CV Electrodeposition for Hydrogen Evolution at Large Currents. <i>ChemCatChem</i> , 2021 , 13, 3619-3627	5.2	1

7	Sulfur-vacancies promoted performance of hierarchical NiCo ₂ S ₄ nanotubes through electrospinning for supercapacitors. <i>Journal of Materials Science</i> , 2021 , 56, 9368-9381	4.3	1
6	Carbon Nanotube/Polymer Coaxial Cables with Strong Interface for Damping Composites and Stretchable Conductors. <i>Advanced Functional Materials</i> , 2112231	15.6	1
5	Double layers combined with MXene and in situ grown NiAl-LDH arrays on nickel foam for enhanced asymmetric supercapacitors. <i>Ionics</i> , 1	2.7	1
4	Flexible and Stable Carbon Nanotube Film Strain Sensors with Self-Derived Integrated Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55600-55610	9.5	0
3	A soft and recyclable carbon nanotube/carbon nanofiber hybrid membrane for oil/water separation. <i>Journal of Applied Polymer Science</i> , 52133	2.9	0
2	High-efficiency CNT-Si solar cells based on a collaborative system enabled by oxide penetration. <i>Nano Research</i> , 1	10	0
1	Space-confined synthesis of SWNT bundles wrapped by MoS ₂ crystalline layers as flexible sensors and detectors. <i>Carbon</i> , 2022 , 195, 19-26	10.4	0