

# Yuanyuan Shang

## List of Publications by Year in descending order

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62  
papers

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159358

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docs citations

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times ranked

4654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO <sub>2</sub> Sponge as Freestanding, Compressible Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2014, 6, 5228-5234.	4.0	298
2	MWCNT/V <sub>2</sub> O <sub>5</sub> Core/Shell Sponge for High Areal Capacity and Power Density Li-Ion Cathodes. ACS Nano, 2012, 6, 7948-7955.	7.3	236
3	Superstretchable Spring-Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	11.1	193
4	Graphene Nanoribbon Aerogels Unzipped from Carbon Nanotube Sponges. Advanced Materials, 2014, 26, 3241-3247.	11.1	151
5	Synthesis and characterization of a new hierarchical reinforcement by chemically grafting graphene oxide onto carbon fibers. Journal of Materials Chemistry, 2012, 22, 18748.	6.7	120
6	A high-capacity lithium-air battery with Pd modified carbon nanotube sponge cathode working in regular air. Carbon, 2013, 62, 288-295.	5.4	116
7	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218.	5.8	115
8	Application-Driven Carbon Nanotube Functional Materials. ACS Nano, 2021, 15, 7946-7974.	7.3	102
9	Self-stretchable, helical carbon nanotube yarn supercapacitors with stable performance under extreme deformation conditions. Nano Energy, 2015, 12, 401-409.	8.2	100
10	Macroscopic, Flexible, High-Performance Graphene Ribbons. ACS Nano, 2013, 7, 10225-10232.	7.3	95
11	Overtwisted, Resolvable Carbon Nanotube Yarn Entanglement as Strain Sensors and Rotational Actuators. ACS Nano, 2013, 7, 8128-8135.	7.3	94
12	Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453.	7.3	88
13	Elastic improvement of carbon nanotube sponges by depositing amorphous carbon coating. Carbon, 2014, 76, 19-26.	5.4	78
14	A flexible gas sensor based on single-walled carbon nanotube-Fe <sub>2</sub> O <sub>3</sub> composite film. Applied Surface Science, 2017, 405, 405-411.	3.1	75
15	Stretchable and transparent electroluminescent device driven by triboelectric nanogenerator. Nano Energy, 2019, 58, 410-418.	8.2	68
16	Design and understanding of core/branch-structured VS <sub>2</sub> nanosheets@CNTs as high-performance anode materials for lithium-ion batteries. Nanoscale, 2019, 11, 13343-13353.	2.8	66
17	High-strength carbon nanotube fibers by twist-induced self-strengthening. Carbon, 2017, 119, 47-55.	5.4	59
18	Multifunctional graphene sheet-nanoribbon hybrid aerogels. Journal of Materials Chemistry A, 2014, 2, 14994-15000.	5.2	54

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19	Meter-Long Spiral Carbon Nanotube Fibers Show Ultrauniformity and Flexibility. <i>Nano Letters</i> , 2016, 16, 1768-1775.	4.5	51
20	Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. <i>Small</i> , 2017, 13, 1702422.	5.2	50
21	Highly flexible all-solid-state supercapacitors based on carbon nanotube/polypyrrole composite films and fibers. <i>RSC Advances</i> , 2016, 6, 62062-62070.	1.7	47
22	Elastic carbon nanotube straight yarns embedded with helical loops. <i>Nanoscale</i> , 2013, 5, 2403.	2.8	44
23	Helical graphene oxide fibers as a stretchable sensor and an electrocapillary sucker. <i>Nanoscale</i> , 2016, 8, 10659-10668.	2.8	44
24	High-performance Li-ion batteries based on graphene quantum dot wrapped carbon nanotube hybrid anodes. <i>Nano Research</i> , 2020, 13, 1044-1052.	5.8	44
25	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.	1.8	40
26	Sustainable power generation for at least one month from ambient humidity using unique nanofluidic diode. <i>Nature Communications</i> , 2022, 13, .	5.8	39
27	Large-Deformation, Multifunctional Artificial Muscles Based on Single-Walled Carbon Nanotube Yarns. <i>Advanced Engineering Materials</i> , 2015, 17, 14-20.	1.6	36
28	A General Method for the Chemical Synthesis of Large-Scale, Seamless Transition Metal Dichalcogenide Electronics. <i>Advanced Materials</i> , 2018, 30, e1706215.	11.1	36
29	Soft and wrinkled carbon membranes derived from petals for flexible supercapacitors. <i>Scientific Reports</i> , 2017, 7, 45378.	1.6	33
30	Water-responsive helical graphene-oxide fibers incorporating a continuous carbon nanotube network. <i>Carbon</i> , 2018, 132, 394-400.	5.4	32
31	Interconnected CuS nanowalls with rough surfaces grown on nickel foam as high-performance electrodes for supercapacitors. <i>RSC Advances</i> , 2016, 6, 59976-59983.	1.7	31
32	An adhesive and self-healable hydrogel with high stretchability and compressibility for human motion detection. <i>Composites Science and Technology</i> , 2021, 213, 108948.	3.8	31
33	Highly Stretchable and Compressible Carbon Nanofiber-Polymer Hydrogel Strain Sensor for Human Motion Detection. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900813.	1.7	28
34	Sulfur-vacancies promoted performance of hierarchical NiCo <sub>2</sub> S <sub>4</sub> nanotubes through electrospinning for supercapacitors. <i>Journal of Materials Science</i> , 2021, 56, 9368-9381.	1.7	27
35	High performance carbon nanotube/polymer composite fibers and water-driven actuators. <i>Composites Science and Technology</i> , 2021, 206, 108676.	3.8	25
36	Double layers combined with MXene and in situ grown NiAl-LDH arrays on nickel foam for enhanced asymmetric supercapacitors. <i>Ionics</i> , 2022, 28, 2967-2977.	1.2	24

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37	Efficient purification of single-walled carbon nanotube fibers by instantaneous current injection and acid washing. RSC Advances, 2016, 6, 97865-97872.	1.7	18
38	Improving Carbon Nanotube-Silicon Solar Cells by Solution Processable Metal Chlorides. Solar Rrl, 2019, 3, 1900147.	3.1	18
39	Mechanical force-induced assembly of one-dimensional nanomaterials. Nano Research, 2020, 13, 1191-1204.	5.8	16
40	High-loading Fe <sub>2</sub> O <sub>3</sub> /SWNT composite films for lithium-ion battery applications. Nanotechnology, 2017, 28, 345703.	1.3	14
41	Synthesis of V <sub>2</sub> O <sub>5</sub> microspheres by spray pyrolysis as cathode material for supercapacitors. Materials Research Express, 2018, 5, 036306.	0.8	13
42	Nitrogen-doped carbon nanotube supported double-shelled hollow composites for asymmetric supercapacitors. New Journal of Chemistry, 2018, 42, 150-160.	1.4	13
43	Intrinsically flexible CNT-TiO <sub>2</sub> -Interlaced film for NO sensing at room temperature. Applied Surface Science, 2022, 579, 152172.	3.1	13
44	A QD-based composite film as photon down-converter in CNT/Si solar cells. Nano Research, 2021, 14, 3893-3899.	5.8	12
45	Synergistic CNFs/CoS <sub>2</sub> /MoS <sub>2</sub> Flexible Films with Unprecedented Selectivity for NO Gas at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 29778-29786.	4.0	11
46	Carbon Nanotube-Coupled Seaweed-like Cobalt Sulfide as a Dual-Functional Catalyst for Overall Water Splitting. ACS Applied Materials & Interfaces, 2022, 14, 30847-30856.	4.0	10
47	Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. Nano Research, 2012, 5, 595-604.	5.8	9
48	Flexible and highly responsive photodetectors based on heterostructures of MoS <sub>2</sub> and all-carbon transistors. Nanotechnology, 2021, 32, 315209.	1.3	9
49	An etch-doping strategy: cobalt-iron bimetallic phosphide as a bifunctional electrocatalyst for highly efficient water splitting. New Journal of Chemistry, 2021, 45, 8527-8534.	1.4	9
50	Carbon Nanotube/Polymer Coaxial Cables with Strong Interface for Damping Composites and Stretchable Conductors. Advanced Functional Materials, 2022, 32, .	7.8	9
51	Highly Stretchable Carbon Nanotube Fibers with Tunable and Stable Light Emission. Advanced Engineering Materials, 2019, 21, 1801126.	1.6	8
52	Flexible and Stable Carbon Nanotube Film Strain Sensors with Self-Derived Integrated Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 55600-55610.	4.0	8
53	Layered Ni <sup>~</sup> Co <sup>~</sup> P Electrode Synthesized by CV Electrodeposition for Hydrogen Evolution at Large Currents. ChemCatChem, 2021, 13, 3619-3627.	1.8	6
54	Space-confined synthesis of SWNT bundles wrapped by MoS <sub>2</sub> crystalline layers as flexible sensors and detectors. Carbon, 2022, 195, 19-26.	5.4	6

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55	Bubble-promoted assembly of hierarchical, porous Ag <sub>2</sub> S nanoparticle membranes. Journal of Materials Chemistry, 2012, 22, 24721.	6.7	5
56	Well dispersive Ni nanoparticles embedded in core-shell supports as efficient catalysts for 4-nitrophenol reduction. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	5
57	Carbon nanotube spiderweb promoted growth of hierarchical transition metal dichalcogenide nanostructures for seamless devices. Nanotechnology, 2020, 31, 365601.	1.3	5
58	Flexible FeS@Fe <sub>2</sub> O <sub>3</sub> /CNT composite films as self-supporting anodes for high-performance lithium-ion batteries. Nanotechnology, 2021, 32, 285404.	1.3	4
59	High-efficiency CNT-Si solar cells based on a collaborative system enabled by oxide penetration. Nano Research, 2022, 15, 2497-2504.	5.8	4
60	Carbon Nanotubes: Superstretchable Spring-Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). Advanced Materials, 2012, 24, 2935-2935.	11.1	3
61	Stretchable Carbon Nanotube-Polymer Composites with Homogenous Deformation and as Liquid Droplet Sensors. Advanced Materials Interfaces, 2019, 6, 1901354.	1.9	2
62	A soft and recyclable carbon nanotube/carbon nanofiber hybrid membrane for oil/water separation. Journal of Applied Polymer Science, 0, , 52133.	1.3	1