Yuanyuan Shang

List of Publications by Year in Descending Order

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	Intrinsically flexible CNT-TiO2-Interlaced film for NO sensing at room temperature. *Applied Surface Science*, **2022**, 579, 152172	6.7	2
59	Space-confined synthesis of SWNT bundles wrapped by MoS2 crystalline layers as flexible sensors and detectors. *Carbon*, **2022**, 195, 19-26	10.4	0
58	Flexible and Stable Carbon Nanotube Film Strain Sensors with Self-Derived Integrated Electrodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 55600-55610	9.5	0
57	Flexible FeS@FeO/CNT composite films as self-supporting anodes for high-performance lithium-ion batteries. *Nanotechnology*, **2021**, 32,	3.4	1
56	High performance carbon nanotube/polymer composite fibers and water-driven actuators. *Composites Science and Technology*, **2021**, 206, 108676	8.6	7
55	Application-Driven Carbon Nanotube Functional Materials. *ACS Nano*, **2021**, 15, 7946-7974	16.7	23
54	Flexible and highly responsive photodetectors based on heterostructures of MoSand all-carbon transistors. *Nanotechnology*, **2021**, 32,	3.4	4
53	Layered NiCoP Electrode Synthesized by CV Electrodeposition for Hydrogen Evolution at Large Currents. *ChemCatChem*, **2021**, 13, 3619-3627	5.2	1
52	A GQD-based composite film as photon down-converter in CNT/Si solar cells. *Nano Research*, **2021**, 14, 3893	10	3
51	Sulfur-vacancies promoted performance of hierarchical NiCo2S4 nanotubes through electrospinning for supercapacitors. *Journal of Materials Science*, **2021**, 56, 9368-9381	4.3	1
50	An adhesive and self-healable hydrogel with high stretchability and compressibility for human motion detection. *Composites Science and Technology*, **2021**, 213, 108948	8.6	13
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	3.6	2
48	Carbon nanotube spiderweb promoted growth of hierarchical transition metal dichalcogenide nanostructures for seamless devices. *Nanotechnology*, **2020**, 31, 365601	3.4	3
47	Synergistic CNFs/CoS/MoS Flexible Films with Unprecedented Selectivity for NO Gas at Room Temperature. *ACS Applied Materials & Interfaces*, **2020**, 12, 29778-29786	9.5	4
46	Highly Stretchable and Compressible Carbon Nanofiber/Polymer Hydrogel Strain Sensor for Human Motion Detection. *Macromolecular Materials and Engineering*, **2020**, 305, 1900813	3.9	18
45	High-performance Li-ion batteries based on graphene quantum dot wrapped carbon nanotube hybrid anodes. *Nano Research*, **2020**, 13, 1044-1052	10	26
44	Mechanical force-induced assembly of one-dimensional nanomaterials. *Nano Research*, **2020**, 13, 1191-1204	10	5

43	Stretchable and transparent electroluminescent device driven by triboelectric nanogenerator. *Nano Energy*, **2019**, 58, 410-418	17.1	43
42	Design and understanding of core/branch-structured VS nanosheets@CNTs as high-performance anode materials for lithium-ion batteries. *Nanoscale*, **2019**, 11, 13343-13353	7.7	32
41	Well dispersive Ni nanoparticles embedded in core-shell supports as efficient catalysts for 4-nitrophenol reduction. *Journal of Nanoparticle Research*, **2019**, 21, 1	2.3	2
40	Improving Carbon Nanotube-Silicon Solar Cells by Solution Processable Metal Chlorides. *Solar Rrl*, **2019**, 3, 1900147	7.1	11
39	Stretchable Carbon Nanotube-Polymer Composites with Homogenous Deformation and as Liquid Droplet Sensors. *Advanced Materials Interfaces*, **2019**, 6, 1901354	4.6	2
38	Flexible and multi-form solid-state supercapacitors based on polyaniline/graphene oxide/CNT composite films and fibers. *Diamond and Related Materials*, **2019**, 92, 198-207	3.5	29
37	Highly Stretchable Carbon Nanotube Fibers with Tunable and Stable Light Emission. *Advanced Engineering Materials*, **2019**, 21, 1801126	3.5	7
36	Water-responsive helical graphene-oxide fibers incorporating a continuous carbon nanotube network. *Carbon*, **2018**, 132, 394-400	10.4	24
35	A General Method for the Chemical Synthesis of Large-Scale, Seamless Transition Metal Dichalcogenide Electronics. *Advanced Materials*, **2018**, 30, e1706215	24	29
34	Synthesis of V2O5microspheres by spray pyrolysis as cathode material for supercapacitors. *Materials Research Express*, **2018**, 5, 036306	1.7	7
33	Nitrogen-doped carbon nanotube supported double-shelled hollow composites for asymmetric supercapacitors. *New Journal of Chemistry*, **2018**, 42, 150-160	3.6	11
32	A flexible gas sensor based on single-walled carbon nanotube-Fe2O3 composite film. *Applied Surface Science*, **2017**, 405, 405-411	6.7	55
31	Soft and wrinkled carbon membranes derived from petals for flexible supercapacitors. *Scientific Reports*, **2017**, 7, 45378	4.9	27
30	High-strength carbon nanotube fibers by twist-induced self-strengthening. *Carbon*, **2017**, 119, 47-55	10.4	44
29	High-loading FeO/SWNT composite films for lithium-ion battery applications. *Nanotechnology*, **2017** , 28, 345703	3.4	11
28	Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. *Small*, **2017**, 13, 1702422	11	38
27	Efficient purification of single-walled carbon nanotube fibers by instantaneous current injection and acid washing. *RSC Advances*, **2016**, 6, 97865-97872	3.7	16
26	Highly flexible all-solid-state supercapacitors based on carbon nanotube/polypyrrole composite films and fibers. *RSC Advances*, **2016**, 6, 62062-62070	3.7	40

25	Interconnected CuS nanowalls with rough surfaces grown on nickel foam as high-performance electrodes for supercapacitors. *RSC Advances*, **2016**, 6, 59976-59983	3.7	23
24	Meter-Long Spiral Carbon Nanotube Fibers Show Ultrauniformity and Flexibility. *Nano Letters*, **2016**, 16, 1768-75	11.5	42
23	Helical graphene oxide fibers as a stretchable sensor and an electrocapillary sucker. *Nanoscale*, **2016**, 8, 10659-68	7.7	36
22	Self-stretchable, helical carbon nanotube yarn supercapacitors with stable performance under extreme deformation conditions. *Nano Energy*, **2015**, 12, 401-409	17.1	84
21	Large-Deformation, Multifunctional Artificial Muscles Based on Single-Walled Carbon Nanotube Yarns. *Advanced Engineering Materials*, **2015**, 17, 14-20	3.5	32
20	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. *Nano Research*, **2014**, 7, 209-218	10	98
19	Core-double-shell, carbon nanotube@polypyrrole@MnO2 sponge as freestanding, compressible supercapacitor electrode. *ACS Applied Materials & Interfaces*, **2014**, 6, 5228-34	9.5	269
18	Multifunctional graphene sheet–nanoribbon hybrid aerogels. *Journal of Materials Chemistry A*, **2014**, 2, 14994-15000	13	46
17	Elastic improvement of carbon nanotube sponges by depositing amorphous carbon coating. *Carbon*, **2014**, 76, 19-26	10.4	61
16	Graphene nanoribbon aerogels unzipped from carbon nanotube sponges. *Advanced Materials*, **2014**, 26, 3241-7	24	143
15	A high-capacity lithium–air battery with Pd modified carbon nanotube sponge cathode working in regular air. *Carbon*, **2013**, 62, 288-295	10.4	106
14	Macroscopic, flexible, high-performance graphene ribbons. *ACS Nano*, **2013**, 7, 10225-32	16.7	85
13	Elastic carbon nanotube straight yarns embedded with helical loops. *Nanoscale*, **2013**, 5, 2403-10	7.7	32
12	Highly twisted double-helix carbon nanotube yarns. *ACS Nano*, **2013**, 7, 1446-53	16.7	73
11	Overtwisted, resolvable carbon nanotube yarn entanglement as strain sensors and rotational actuators. *ACS Nano*, **2013**, 7, 8128-35	16.7	80
10	Bubble-promoted assembly of hierarchical, porous Ag2S nanoparticle membranes. *Journal of Materials Chemistry*, **2012**, 22, 24721		5
9	Synthesis and characterization of a new hierarchical reinforcement by chemically grafting graphene oxide onto carbon fibers. *Journal of Materials Chemistry*, **2012**, 22, 18748		102
8	Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. *Nano Research*, **2012**, 5, 595-604	10	7

7	MWCNT/V2O5 core/shell sponge for high areal capacity and power density Li-ion cathodes. *ACS Nano*, **2012**, 6, 7948-55	16.7	219
6	Super-stretchable spring-like carbon nanotube ropes. *Advanced Materials*, **2012**, 24, 2896-900	24	165
5	Carbon Nanotubes: Super-Stretchable Spring-Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). *Advanced Materials*, **2012**, 24, 2935-2935	24	3
4	A soft and recyclable carbon nanotube/carbon nanofiber hybrid membrane for oil/water separation. *Journal of Applied Polymer Science*,52133	2.9	0
3	High-efficiency CNT-Si solar cells based on a collaborative system enabled by oxide penetration. *Nano Research*,1	10	0
2	Carbon Nanotube/Polymer Coaxial Cables with Strong Interface for Damping Composites and Stretchable Conductors. *Advanced Functional Materials*,2112231	15.6	1
1	Double layers combined with MXene and in situ grown NiAl-LDH arrays on nickel foam for enhanced asymmetric supercapacitors. *Ionics*,1	2.7	1