# Yuanyuan Shang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8361959/publications.pdf

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|---|---|---|---|
| 62 papers | 3,001 citations | 159358 30 h-index | 161609 54 g-index |
| 62 all docs | 62 docs citations | 62 times ranked | 4654 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | High-efficiency CNT-Si solar cells based on a collaborative system enabled by oxide penetration. Nano Research, 2022, 15, 2497-2504. | 5.8 | 4 |
| 2 | Intrinsically flexible CNT-TiO2-Interlaced film for NO sensing at room temperature. Applied Surface Science, 2022, 579, 152172. | 3.1 | 13 |
| 3 | Carbon Nanotube/Polymer Coaxial Cables with Strong Interface for Damping Composites and Stretchable Conductors. Advanced Functional Materials, 2022, 32, . | 7.8 | 9 |
| 4 | Double layers combined with MXene and in situ grown NiAl-LDH arrays on nickel foam for enhanced asymmetric supercapacitors. Ionics, 2022, 28, 2967-2977. | 1.2 | 24 |
| 5 | Space-confined synthesis of SWNT bundles wrapped by MoS2 crystalline layers as flexible sensors and detectors. Carbon, 2022, 195, 19-26. | 5.4 | 6 |
| 6 | Sustainable power generation for at least one month from ambient humidity using unique nanofluidic diode. Nature Communications, 2022, 13, . | 5.8 | 39 |
| 7 | 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 |
| 8 | A GQD-based composite film as photon down-converter in CNT/Si solar cells. Nano Research, 2021, 14, 3893-3899. | 5.8 | 12 |
| 9 | Sulfur-vacancies promoted performance of hierarchical NiCo2S4 nanotubes through electrospinning for supercapacitors. Journal of Materials Science, 2021, 56, 9368-9381. | 1.7 | 27 |
| 10 | 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 |
| 11 | High performance carbon nanotube/polymer composite fibers and water-driven actuators. Composites Science and Technology, 2021, 206, 108676. | 3.8 | 25 |
| 12 | Application-Driven Carbon Nanotube Functional Materials. ACS Nano, 2021, 15, 7946-7974. | 7.3 | 102 |
| 13 | Flexible and highly responsive photodetectors based on heterostructures of MoS<sub>2</sub> and all-carbon transistors. Nanotechnology, 2021, 32, 315209. | 1.3 | 9 |
| 14 | Layered Niâˆ’Coâˆ’P Electrode Synthesized by CV Electrodeposition for Hydrogen Evolution at Large Currents. ChemCatChem, 2021, 13, 3619-3627. | 1.8 | 6 |
| 15 | An adhesive and self-healable hydrogel with high stretchability and compressibility for human motion detection. Composites Science and Technology, 2021, 213, 108948. | 3.8 | 31 |
| 16 | An etch-doping strategy: cobaltâ€“iron bimetallic phosphide as a bifunctional electrocatalyst for highly efficient water splitting. New Journal of Chemistry, 2021, 45, 8527-8534. | 1.4 | 9 |
| 17 | Flexible and Stable Carbon Nanotube Film Strain Sensors with Self-Derived Integrated Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 55600-55610. | 4.0 | 8 |
| 18 | Mechanical force-induced assembly of one-dimensional nanomaterials. Nano Research, 2020, 13, 1191-1204. | 5.8 | 16 |

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|---|---|---|---|
| 19 | Carbon nanotube spiderweb promoted growth of hierarchical transition metal dichalcogenide nanostructures for seamless devices. Nanotechnology, 2020, 31, 365601. | 1.3 | 5 |
| 20 | 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 |
| 21 | Highly Stretchable and Compressible Carbon Nanofiberâ€"Polymer Hydrogel Strain Sensor for Human Motion Detection. Macromolecular Materials and Engineering, 2020, 305, 1900813. | 1.7 | 28 |
| 22 | High-performance Li-ion batteries based on graphene quantum dot wrapped carbon nanotube hybrid anodes. Nano Research, 2020, 13, 1044-1052. | 5.8 | 44 |
| 23 | Stretchable Carbon Nanotubeâ€Polymer Composites with Homogenous Deformation and as Liquid Droplet Sensors. Advanced Materials Interfaces, 2019, 6, 1901354. | 1.9 | 2 |
| 24 | Stretchable and transparent electroluminescent device driven by triboelectric nanogenerator. Nano Energy, 2019, 58, 410-418. | 8.2 | 68 |
| 25 | 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 |
| 26 | 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 |
| 27 | Improving Carbon Nanotubeâ€Silicon Solar Cells by Solution Processable Metal Chlorides. Solar Rrl, 2019, 3, 1900147. | 3.1 | 18 |
| 28 | 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. | 1.8 | 40 |
| 29 | Highly Stretchable Carbon Nanotube Fibers with Tunable and Stable Light Emission. Advanced Engineering Materials, 2019, 21, 1801126. | 1.6 | 8 |
| 30 | Water-responsive helical graphene-oxide fibers incorporating a continuous carbon nanotube network. Carbon, 2018, 132, 394-400. | 5.4 | 32 |
| 31 | A General Method for the Chemical Synthesis of Largeâ€Scale, Seamless Transition Metal Dichalcogenide Electronics. Advanced Materials, 2018, 30, e1706215. | 11.1 | 36 |
| 32 | 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 |
| 33 | Nitrogen-doped carbon nanotube supported double-shelled hollow composites for asymmetric supercapacitors. New Journal of Chemistry, 2018, 42, 150-160. | 1.4 | 13 |
| 34 | A flexible gas sensor based on single-walled carbon nanotube-Fe2O3 composite film. Applied Surface Science, 2017, 405, 405-411. | 3.1 | 75 |
| 35 | Soft and wrinkled carbon membranes derived from petals for flexible supercapacitors. Scientific Reports, 2017, 7, 45378. | 1.6 | 33 |
| 36 | High-strength carbon nanotube fibers by twist-induced self-strengthening. Carbon, 2017, 119, 47-55. | 5.4 | 59 |

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|---|---|---|---|
| 37 | High-loading Fe2O3/SWNT composite films for lithium-ion battery applications. Nanotechnology, 2017, 28, 345703. | 1.3 | 14 |
| 38 | Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. Small, 2017, 13, 1702422. | 5.2 | 50 |
| 39 | Helical graphene oxide fibers as a stretchable sensor and an electrocapillary sucker. Nanoscale, 2016, 8, 10659-10668. | 2.8 | 44 |
| 40 | Efficient purification of single-walled carbon nanotube fibers by instantaneous current injection and acid washing. RSC Advances, 2016, 6, 97865-97872. | 1.7 | 18 |
| 41 | Highly flexible all-solid-state supercapacitors based on carbon nanotube/polypyrrole composite films and fibers. RSC Advances, 2016, 6, 62062-62070. | 1.7 | 47 |
| 42 | Interconnected CuS nanowalls with rough surfaces grown on nickel foam as high-performance electrodes for supercapacitors. RSC Advances, 2016, 6, 59976-59983. | 1.7 | 31 |
| 43 | Meter-Long Spiral Carbon Nanotube Fibers Show Ultrauniformity and Flexibility. Nano Letters, 2016, 16, 1768-1775. | 4.5 | 51 |
| 44 | Self-stretchable, helical carbon nanotube yarn supercapacitors with stable performance under extreme deformation conditions. Nano Energy, 2015, 12, 401-409. | 8.2 | 100 |
| 45 | Largeâ€Deformation, Multifunctional Artificial Muscles Based on Singleâ€Walled Carbon Nanotube Yarns. Advanced Engineering Materials, 2015, 17, 14-20. | 1.6 | 36 |
| 46 | Graphene Nanoribbon Aerogels Unzipped from Carbon Nanotube Sponges. Advanced Materials, 2014, 26, 3241-3247. | 11.1 | 151 |
| 47 | Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218. | 5.8 | 115 |
| 48 | 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 |
| 49 | Multifunctional graphene sheetâ€“nanoribbon hybrid aerogels. Journal of Materials Chemistry A, 2014, 2, 14994-15000. | 5.2 | 54 |
| 50 | Elastic improvement of carbon nanotube sponges by depositing amorphous carbon coating. Carbon, 2014, 76, 19-26. | 5.4 | 78 |
| 51 | A high-capacity lithiumâ€“air battery with Pd modified carbon nanotube sponge cathode working in regular air. Carbon, 2013, 62, 288-295. | 5.4 | 116 |
| 52 | Macroscopic, Flexible, High-Performance Graphene Ribbons. ACS Nano, 2013, 7, 10225-10232. | 7.3 | 95 |
| 53 | Elastic carbon nanotube straight yarns embedded with helical loops. Nanoscale, 2013, 5, 2403. | 2.8 | 44 |
| 54 | Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453. | 7.3 | 88 |

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|---|---|---|---|
| 55 | Overtwisted, Resolvable Carbon Nanotube Yarn Entanglement as Strain Sensors and Rotational Actuators. ACS Nano, 2013, 7, 8128-8135. | 7.3 | 94 |
| 56 | Bubble-promoted assembly of hierarchical, porous Ag2S nanoparticle membranes. Journal of Materials Chemistry, 2012, 22, 24721. | 6.7 | 5 |
| 57 | 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 |
| 58 | Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. Nano Research, 2012, 5, 595-604. | 5.8 | 9 |
| 59 | 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 |
| 60 | Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900. | 11.1 | 193 |
| 61 | Carbon Nanotubes: Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). Advanced Materials, 2012, 24, 2935-2935. | 11.1 | 3 |
| 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 |