Yanhua Cheng

List of Publications by Year
in descending order

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50 papers	3,022 citations	185998 28 h-index	197535 49 g-index
50 all docs	50 docs citations	50 times ranked	4400 citing authors

#	Article	IF	Citations
1	Industrial scale production of fibre batteries by a solution-extrusion method. Nature Nanotechnology, 2022, 17, 372-377.	15.6	110
2	Fibrous Aerogels for Solar Vapor Generation. Frontiers in Chemistry, 2022, 10, 843070.	1.8	5
3	Dorsoventral gradient hydrogel fiber actuators visualized by AIEgen-conjugated nanoparticles. Nano Today, 2022, 44, 101502.	6.2	9
4	Fibrous aggregates: Amplifying aggregation-induced emission to boost health protection. Biomaterials, 2022, 287, 121666.	5.7	5
5	Integrated dynamic wet spinning of core-sheath hydrogel fibers for optical-to-brain/tissue communications. National Science Review, 2021, 8, nwaa209.	4.6	36
6	Solid-state intramolecular motions in continuous fibers driven by ambient humidity for fluorescent sensors. National Science Review, 2021, 8, nwaa135.	4.6	36
7	Enantiomeric Switching of the Circularly Polarized Luminescence Processes in a Hierarchical Biomimetic System by Film Tilting. ACS Nano, 2021, 15, 1397-1406.	7.3	31
8	Smart fibers for energy conversion and storage. Chemical Society Reviews, 2021, 50, 7009-7061.	18.7	108
9	Hierarchical Interface Engineering for Advanced Nanocellulosic Hybrid Aerogels with High Compressibility and Multifunctionality. Advanced Functional Materials, 2021, 31, 2009349.	7.8	80
10	Molecular Motions in Polymer Matrix for Microenvironment Sensing. Chemical Research in Chinese Universities, 2021, 37, 90-99.	1.3	5
11	Polymorph selectivity of an AIE luminogen under nano-confinement to visualize polymer microstructures. Chemical Science, 2020, 11, 997-1005.	3.7	46
12	Manipulating Solid-State Intramolecular Motion toward Controlled Fluorescence Patterns. ACS Nano, 2020, 14, 2090-2098.	7.3	57
13	Emission Control from Transition Metal Dichalcogenide Monolayers by Aggregation-Induced Molecular Rotors. ACS Nano, 2020, 14, 7444-7453.	7.3	23
14	High-Energy-Density Asymmetric Supercapacitor Based on a Durable and Stable Manganese Molybdate Nanostructure Electrode for Energy Storage Systems. ACS Applied Energy Materials, 2020, 3, 5393-5404.	2.5	50
15	Tunable circularly polarized luminescence from molecular assemblies of chiral AIEgens. Materials Chemistry Frontiers, 2019, 3, 1768-1778.	3.2	74
16	Facile emission color tuning and circularly polarized light generation of single luminogen in engineering robust forms. Materials Horizons, 2019, 6, 405-411.	6.4	41
17	Spontaneous and Fast Molecular Motion at Room Temperature in the Solid State. Angewandte Chemie, 2019, 131, 4584-4588.	1.6	14
18	Spontaneous and Fast Molecular Motion at Room Temperature in the Solid State. Angewandte Chemie - International Edition, 2019, 58, 4536-4540.	7.2	87

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19	â€œStiffâ€“Softâ€•Binary Synergistic Aerogels with Superflexibility and High Thermal Insulation Performance. Advanced Functional Materials, 2019, 29, 1806407.	7.8	111
20	Visualizing the Initial Step of Self-Assembly and the Phase Transition by Stereogenic Amphiphiles with Aggregation-Induced Emission. ACS Nano, 2019, 13, 839-846.	7.3	77
21	In Situ Monitoring of RAFT Polymerization by Tetraphenylethyleneâ€Containing Agents with Aggregationâ€Induced Emission Characteristics. Angewandte Chemie - International Edition, 2018, 57, 6274-6278.	7.2	145
22	In Situ Monitoring of RAFT Polymerization by Tetraphenylethyleneâ€Containing Agents with Aggregationâ€Induced Emission Characteristics. Angewandte Chemie, 2018, 130, 6382-6386.	1.6	24
23	Malonitrileâ€Functionalized Tetraphenylpyrazine: Aggregationâ€Induced Emission, Ratiometric Detection of Hydrogen Sulfide, and Mechanochromism. Advanced Functional Materials, 2018, 28, 1704689.	7.8	124
24	Highly flexible and shape-persistent graphene microtube and its application in supercapacitor. Carbon, 2018, 126, 419-425.	5.4	29
25	Robust, hydrophilic graphene/cellulose nanocrystal fiber-based electrode with high capacitive performance and conductivity. Carbon, 2018, 127, 218-227.	5.4	143
26	Multiscale Humidity Visualization by Environmentally Sensitive Fluorescent Molecular Rotors. Advanced Materials, 2017, 29, 1703900.	11.1	193
27	Asymmetric fabric supercapacitor with a high areal energy density and excellent flexibility. RSC Advances, 2017, 7, 48934-48941.	1.7	22
28	Humidity Sensors: Multiscale Humidity Visualization by Environmentally Sensitive Fluorescent Molecular Rotors (Adv. Mater. 46/2017). Advanced Materials, 2017, 29, .	11.1	0
29	Use of regenerated cellulose to direct hetero-assembly of nanoparticles with carbon nanotubes for producing flexible battery anodes. Journal of Materials Chemistry A, 2017, 5, 13944-13949.	5.2	28
30	Flexible all-solid-state asymmetric supercapacitor based on transition metal oxide nanorods/reduced graphene oxide hybrid fibers with high energy density. Carbon, 2017, 113, 151-158.	5.4	243
31	Lithiumâ€Ion Batteries: Ionic Liquidâ€Assisted Synthesis of TiO₂â€“Carbon Hybrid Nanostructures for Lithiumâ€Ion Batteries (Adv. Funct. Mater. 9/2016). Advanced Functional Materials, 2016, 26, 1487-1487.	7.8	1
32	Ionic Liquidâ€Assisted Synthesis of TiO₂â€“Carbon Hybrid Nanostructures for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 1338-1346.	7.8	97
33	Conductive, tough, hydrophilic poly(vinyl alcohol)/graphene hybrid fibers for wearable supercapacitors. Journal of Power Sources, 2016, 319, 271-280.	4.0	105
34	Large Scale Production of Continuous Hydrogel Fibers with Anisotropic Swelling Behavior by Dynamicâ€Crosslinkingâ€Spinning. Macromolecular Rapid Communications, 2016, 37, 1795-1801.	2.0	33
35	Hierarchical MnO2 nanowire/graphene hybrid fibers with excellent electrochemical performance for flexible solid-state supercapacitors. Journal of Power Sources, 2016, 306, 481-488.	4.0	246
36	Energy Storage: Aerosolâ€Assisted Heteroassembly of Oxide Nanocrystals and Carbon Nanotubes into 3D Mesoporous Composites for Highâ€Rate Electrochemical Energy Storage (Small 26/2015). Small, 2015, 11, 3196-3196.	5.2	1

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37	Thermoâ€Induced Double Phase Transition Behavior of Physically Crossâ€Linked Hydrogels Based on Oligo(ethylene glycol) methacrylates. Macromolecular Chemistry and Physics, 2015, 216, 2230-2240.	1.1	17
38	Natural polyphenol tannic acid reinforced poly(3â€hydroxybutyrateâ€coâ€3â€hydroxyvalerate) composite films with enhanced tensile strength and fracture toughness. Polymer Composites, 2015, 36, 2303-2308.	2.3	13
39	Scalable non-liquid-crystal spinning of locally aligned graphene fibers for high-performance wearable supercapacitors. Nano Energy, 2015, 15, 642-653.	8.2	172
40	A Novel Nanocomposite Hydrogel with Precisely Tunable UCST and LCST. Macromolecular Rapid Communications, 2015, 36, 477-482.	2.0	50
41	Aerosolâ€Assisted Heteroassembly of Oxide Nanocrystals and Carbon Nanotubes into 3D Mesoporous Composites for Highâ€Rate Electrochemical Energy Storage. Small, 2015, 11, 3135-3142.	5.2	12
42	In vitro and in vivo toxicity studies of copper sulfide nanoplates for potential photothermal applications. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 901-912.	1.7	93
43	Polyacrylic Acid Assisted Assembly of Oxide Particles and Carbon Nanotubes for Highâ€Performance Flexible Battery Anodes. Advanced Energy Materials, 2015, 5, 1401207.	10.2	27
44	A Facile Approach to Fabrication of Novel Magnetic Hydrogels Crosslinked by Multi-Functional Pomegranate-Like Nanospheres. Australian Journal of Chemistry, 2014, 67, 112.	0.5	5
45	Building Robust Carbon Nanotube-Interweaved-Nanocrystal Architecture for High-Performance Anode Materials. ACS Nano, 2014, 8, 9265-9273.	7.3	46
46	Polymer grafted hydroxyapatite whisker as a filler for dental composite resin with enhanced physical and mechanical properties. Materials Science and Engineering C, 2013, 33, 4994-5000.	3.8	65
47	Ready fabrication of thin-film electrodes from building nanocrystals for micro-supercapacitors. Chemical Communications, 2012, 48, 3736.	2.2	16
48	Influences of Hydrogen Bonding and Peripheral Chain Length on Mesophase Structures of Mesogen-Jacketed Liquid Crystalline Polymers with Amide Side-Chain Linkages. Macromolecules, 2011, 44, 1429-1437.	2.2	44
49	Synthesis and Phase Structures of Mesogen-Jacketed Liquid Crystalline Polyelectrolytes and Their Ionic Complexes. Macromolecules, 2011, 44, 3973-3980.	2.2	15
50	Novel photoluminescence poly(fluorinated imide)s electrospun fibers with blue, olive green and red fluorescence. Colloid and Polymer Science, 2010, 288, 1471-1477.	1.0	8