Shengyuan Yang

List of Publications by Year
in descending order

51 papers	3,376 citations	147726 31 h-index	182361 51 g-index
51 all docs	51 docs citations	51 times ranked	4489 citing authors

#	Article	IF	Citations
1	Electrolyte selection for supercapacitive devices: a critical review. Nanoscale Advances, 2019, 1, 3807-3835.	2.2	702
2	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
3	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
4	Polyester@MXene nanofibers-based yarn electrodes. Journal of Power Sources, 2018, 396, 683-690.	4.0	147
5	Bottom-Up Fabrication of Activated Carbon Fiber for All-Solid-State Supercapacitor with Excellent Electrochemical Performance. ACS Applied Materials & Interfaces, 2016, 8, 14622-14627.	4.0	117
6	A Route Toward Smart System Integration: From Fiber Design to Device Construction. Advanced Materials, 2020, 32, e1902301.	11.1	116
7	Electrospun Nanofibers-Based Face Masks. Advanced Fiber Materials, 2020, 2, 161-166.	7.9	108
8	Conductive, tough, hydrophilic poly(vinyl alcohol)/graphene hybrid fibers for wearable supercapacitors. Journal of Power Sources, 2016, 319, 271-280.	4.0	105
9	Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. Energy and Environmental Science, 2019, 12, 2148-2160.	15.6	104
10	Enhanced Photocatalytic Performance of Surface-Modified TiO2 Nanofibers with Rhodizonic Acid. Advanced Fiber Materials, 2020, 2, 118-122.	7.9	93
11	Rice grain-shaped TiO2 mesostructures by electrospinning for dye-sensitized solar cells. Chemical Communications, 2010, 46, 7421.	2.2	89
12	Unveiling Polyindole: Freestanding As-electrospun Polyindole Nanofibers and Polyindole/Carbon Nanotubes Composites as Enhanced Electrodes for Flexible All-solid-state Supercapacitors. Electrochimica Acta, 2017, 247, 400-409.	2.6	76
13	Allâ€Celluloseâ€Based Quasiâ€Solidâ€State Sodiumâ€Ion Hybrid Capacitors Enabled by Structural Hierarchy. Advanced Functional Materials, 2019, 29, 1903895.	7.8	75
14	Design and synthesis of porous channel-rich carbon nanofibers for self-standing oxygen reduction reaction and hydrogen evolution reaction bifunctional catalysts in alkaline medium. Journal of Materials Chemistry A, 2017, 5, 7507-7515.	5.2	69
15	Which is a superior material for scattering layer in dye-sensitized solar cellsâ€"electrospun rice grain- or nanofiber-shaped TiO2?. Journal of Materials Chemistry, 2011, 21, 12210.	6.7	60
16	Materials interaction in aggregation-induced emission (AIE)-based fluorescent resin for smart coatings. Journal of Materials Chemistry C, 2018, 6, 12849-12857.	2.7	57
17	Mesoporous SnO2 agglomerates with hierarchical structures as an efficient dual-functional material for dye-sensitized solar cells. Chemical Communications, 2012, 48, 10865.	2.2	56
18	A bottom-up approach to design wearable and stretchable smart fibers with organic vapor sensing behaviors and energy storage properties. Journal of Materials Chemistry A, 2018, 6, 13633-13643.	5.2	55

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19	Multifunctional fabrics of carbon nanotube fibers. Journal of Materials Chemistry A, 2019, 7, 8790-8797.	5.2	54
20	Surface Self-Assembly of Functional Electroactive Nanofibers on Textile Yarns as a Facile Approach toward Super Flexible Energy Storage. ACS Applied Energy Materials, 2018, 1, 377-386.	2.5	47
21	Hierarchically porous carbon black/graphene hybrid fibers for high performance flexible supercapacitors. RSC Advances, 2016, 6, 50112-50118.	1.7	46
22	Controlled synergistic strategy to fabricate 3D-skeletal hetero-nanosponges with high performance for flexible energy storage applications. Journal of Materials Chemistry A, 2017, 5, 21114-21121.	5.2	44
23	High specific capacitance cotton fiber electrode enhanced with PPy and MXene by in situ hybrid polymerization. International Journal of Biological Macromolecules, 2021, 181, 1063-1071.	3.6	43
24	Perovskite Solar Fibers: Current Status, Issues and Challenges. Advanced Fiber Materials, 2019, 1, 101-125.	7.9	42
25	Flexible Solar Yarns with 15.7% Power Conversion Efficiency, Based on Electrospun Perovskite Composite Nanofibers. Solar Rrl, 2020, 4, 2000269.	3.1	41
26	Green approach to fabricate Polyindole composite nanofibers for energy and sensor applications. Materials Letters, 2017, 209, 400-403.	1.3	40
27	Water-based fluorescent paint: Presenting a novel approach to study and solve the aggregation caused quench (ACQ) effect in traditional fluorescent materials. Progress in Organic Coatings, 2018, 120, 1-9.	1.9	36
28	Characteristics of ZnOâ€“SnO₂ Composite Nanofibers as a Photoanode in Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2019, 58, 643-653.	1.8	35
29	A novel stimuli-responsive fluorescent elastomer based on an AIE mechanism. Polymer Chemistry, 2015, 6, 8194-8202.	1.9	33
30	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
31	Recent Progress of Electrospun Nanofibers for Zincâ€“Air Batteries. Advanced Fiber Materials, 2022, 4, 185-202.	7.9	33
32	Understanding electrochemical capacitors with in-situ techniques. Renewable and Sustainable Energy Reviews, 2021, 149, 111418.	8.2	32
33	TiO2 Derived by Titanate Route from Electrospun Nanostructures for High-Performance Dye-Sensitized Solar Cells. Langmuir, 2012, 28, 6202-6206.	1.6	30
34	Polymer versus Cation of Gel Polymer Electrolytes in the Charge Storage of Asymmetric Supercapacitors. Industrial & Engineering Chemistry Research, 2019, 58, 654-664.	1.8	26
35	Highly efficient photovoltaic energy storage hybrid system based on ultrathin carbon electrodes designed for a portable and flexible power source. Journal of Power Sources, 2019, 422, 196-207.	4.0	24
36	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. Journal of Materials Chemistry A, 2019, 7, 26661-26692.	5.2	24

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37	Transformation of Supercapacitive Charge Storage Behaviour in a Multi elemental Spinel CuMn2O4 Nanofibers with Alkaline and Neutral Electrolytes. Advanced Fiber Materials, 2021, 3, 265-274.	7.9	24
38	An attempt to adopt aggregation-induced emission to study organicâ€“inorganic composite materials. Journal of Materials Chemistry C, 2018, 6, 7003-7011.	2.7	23
39	Thin metal film on porous carbon as a medium for electrochemical energy storage. Journal of Power Sources, 2021, 489, 229522.	4.0	19
40	Perovskite fiber-shaped optoelectronic devices for wearable applications. Journal of Materials Chemistry C, 2022, 10, 6957-6991.	2.7	18
41	Lead-free and electron transport layer-free perovskite yarns: Designed for knitted solar fabrics. Chemical Engineering Journal, 2021, 410, 128384.	6.6	15
42	High stress-driven voltages in net-like layer-supported organicâ€“inorganic perovskites. Journal of Materials Chemistry C, 2020, 8, 2643-2658.	2.7	14
43	<i>In situ</i>construction of polyether-based composite electrolyte with bi-phase ion conductivity and stable electrolyte/electrode interphase for solid-state lithium metal batteries. Journal of Materials Chemistry A, 2022, 10, 19641-19648.	5.2	14
44	Systemic research of fluorescent emulsion systems and their polymerization process with a fluorescent probe by an AIE mechanism. RSC Advances, 2016, 6, 74225-74233.	1.7	11
45	Fundamentals of Hysteresis in Perovskite Solar Cells: From Structureâ€Property Relationship to Neoteric Breakthroughs. Chemical Record, 2022, 22, .	2.9	11
46	Conversion efficiency enhancement of CdS quantum dot-sensitized electrospun nanostructured TiO2 solar cells by organic dipole treatment. Materials Letters, 2014, 116, 345-348.	1.3	10
47	Which is a better fluorescent sensor: aggregation-induced emission-based nanofibers or thin-coating films?. Materials Advances, 2020, 1, 574-578.	2.6	9
48	Studying a novel AIE coating and its handling process via fluorescence spectrum. RSC Advances, 2017, 7, 41127-41135.	1.7	8
49	Carbon doped lead-free perovskite with superior mechanical and thermal stability. Molecular Physics, 2022, 120, .	0.8	8
50	Heat induction in two-dimensional grapheneâ€“Fe₃O₄ nanohybrids for magnetic hyperthermia applications with artificial neural network modeling. RSC Advances, 2021, 11, 21702-21715.	1.7	7
51	Graphene-based implantable neural electrodes for insect flight control. Journal of Materials Chemistry B, 2022, 10, 4632-4639.	2.9	4