Weixing Song

List of Publications by Year
in descending order

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45 papers	2,708 citations	201575 27 h-index	233338 45 g-index
45 all docs	45 docs citations	45 times ranked	3943 citing authors

#	Article	IF	Citations
1	Dual-Responsive Surfaces That Switch between Superhydrophilicity and Superhydrophobicity. Advanced Materials, 2006, 18, 432-436.	11.1	324
2	Largely enhanced triboelectric nanogenerator for efficient harvesting of water wave energy by soft contacted structure. Nano Energy, 2019, 57, 432-439.	8.2	278
3	Wearable Powerâ€Textiles by Integrating Fabric Triboelectric Nanogenerators and Fiberâ€Shaped Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2016, 6, 1601048.	10.2	266
4	Flexible, Stretchable, and Transparent Planar Microsupercapacitors Based on 3D Porous Laserâ€Induced Graphene. Small, 2018, 14, 1702249.	5.2	179
5	Nanopillar Arrayed Triboelectric Nanogenerator as a Self-Powered Sensitive Sensor for a Sleep Monitoring System. ACS Nano, 2016, 10, 8097-8103.	7.3	145
6	Plasmonic nanoparticle-embedded poly(p-phenylene benzobisoxazole) nanofibrous composite films for solar steam generation. Nanoscale, 2018, 10, 6186-6193.	2.8	143
7	Structure and Dimension Effects on the Performance of Layered Triboelectric Nanogenerators in Contact-Separation Mode. ACS Nano, 2019, 13, 698-705.	7.3	100
8	Lipid coated mesoporous silica nanoparticles as photosensitive drug carriers. Physical Chemistry Chemical Physics, 2010, 12, 4418.	1.3	92
9	Smart polyelectrolyte microcapsules as carriers for water-soluble small molecular drug. Journal of Controlled Release, 2009, 139, 160-166.	4.8	74
10	Physical and Chemical Sensors on the Basis of Laser-Induced Graphene: Mechanisms, Applications, and Perspectives. ACS Nano, 2021, 15, 18708-18741.	7.3	70
11	Application of Carbon Materials in Aqueous Zinc Ion Energy Storage Devices. Small, 2021, 17, e2100219.	5.2	68
12	Honeycomb Selfâ€Assembled Peptide Scaffolds by the Breath Figure Method. Chemistry - A European Journal, 2011, 17, 4238-4245.	1.7	62
13	An 8.07% efficient fiber dye-sensitized solar cell based on a TiO2 micron-core array and multilayer structure photoanode. Nano Energy, 2015, 11, 341-347.	8.2	62
14	Improving the photovoltaic performance and flexibility of fiber-shaped dye-sensitized solar cells with atomic layer deposition. Nano Energy, 2016, 19, 1-7.	8.2	61
15	Efficient fiber shaped zinc bromide batteries and dye sensitized solar cells for flexible power sources. Journal of Materials Chemistry C, 2015, 3, 2157-2165.	2.7	58
16	New Insights into the Electrochemistry of Carbonyl- and Amino-Containing Polymers for Rechargeable Zincâ€“Organic Batteries. ACS Energy Letters, 2021, 6, 1141-1147.	8.8	54
17	A highly elastic self-charging power system for simultaneously harvesting solar and mechanical energy. Nano Energy, 2019, 65, 103997.	8.2	52
18	Hydrothermal-Induced Structure Transformation of Polyelectrolyte Multilayers: From Nanotubes to Capsules. Langmuir, 2008, 24, 5508-5513.	1.6	51

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19	Fabrication and biological application of nano-hydroxyapatite (nHA)/alginate (ALG) hydrogel as scaffolds. Journal of Materials Chemistry, 2011, 21, 2228-2236.	6.7	49
20	V₂O₅ Nanowire Composite Paper as a High-Performance Lithium-Ion Battery Cathode. ACS Omega, 2017, 2, 793-799.	1.6	46
21	Recent advances in preparation and application of laser-induced graphene in energy storage devices. Materials Today Energy, 2020, 18, 100569.	2.5	43
22	A flexible comb electrode triboelectricâ€“electret nanogenerator with separated microfibers for a self-powered position, motion direction and acceleration tracking sensor. Journal of Materials Chemistry A, 2018, 6, 16548-16555.	5.2	39
23	Novel Photoanode for Dye-Sensitized Solar Cells with Enhanced Light-Harvesting and Electron-Collection Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 13418-13425.	4.0	38
24	Hydrated ruthenium dioxides @ graphene based fiber supercapacitor for wearable electronics. Journal of Power Sources, 2019, 440, 227143.	4.0	35
25	Zinc Oxide-Enhanced Piezoelectret Polypropylene Microfiber for Mechanical Energy Harvesting. ACS Applied Materials & Interfaces, 2018, 10, 19940-19947.	4.0	34
26	A flexible self-charged power panel for harvesting and storing solar and mechanical energy. Nano Energy, 2019, 65, 104082.	8.2	30
27	Movement of polymer microcarriers using a biomolecular motor. Biomaterials, 2010, 31, 1287-1292.	5.7	28
28	A Selfâ€Powered Lantern Based on a Triboelectricâ€“Photovoltaic Hybrid Nanogenerator. Advanced Materials Technologies, 2018, 3, 1700371.	3.0	26
29	Assembled capsules transportation driven by motor proteins. Biochemical and Biophysical Research Communications, 2009, 379, 175-178.	1.0	23
30	Rational design of red phosphorus/reduced graphene oxide composites for stable sodium ion storage. Journal of Alloys and Compounds, 2019, 775, 1270-1276.	2.8	21
31	A flexible multi-layer electret nanogenerator for bending deformation energy harvesting and strain sensing. Materials Research Bulletin, 2018, 102, 130-136.	2.7	20
32	Covalent Assembly of Amphiphilic Bolaâ€Amino Acids into Robust and Biodegradable Nanoparticles for In Vitro Photothermal Therapy. Chemistry - an Asian Journal, 2018, 13, 3526-3532.	1.7	20
33	Interfacial engineering of nanostructured photoanode in fiber dyeâ€sensitized solar cells for selfâ€charging power systems. EcoMat, 2022, 4, .	6.8	16
34	Enhanced Electrochemical Performance of Co₂NiO₄/Ti₃C₂T_x Structures through Coupled Synergistic Effects. ChemistrySelect, 2019, 4, 12886-12890.	0.7	15
35	Cost-effective fabrication and high-frequency response of non-ideal RC application based on 3D porous laser-induced graphene. Journal of Materials Science, 2018, 53, 12413-12420.	1.7	13
36	High performance lithium-sulfur batteries for storing pulsed energy generated by triboelectric nanogenerators. Scientific Reports, 2017, 7, 425.	1.6	11

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37	Forming an Amorphous ZnO Nanosheet Network by Confined Parasitic Reaction for Stabilizing Zn Anodes and Reducing Water Activity. ACS Applied Energy Materials, 2022, 5, 2290-2299.	2.5	11
38	Ultralight self-charging triboelectric power paper with enhanced on-chip energy storage. Nano Energy, 2022, 101, 107601.	8.2	10
39	Two-dimensional polyelectrolyte hollow sphere arrays at a liquidâ€“air interface. Soft Matter, 2011, 7, 359-362.	1.2	9
40	Modulated Pencil-Drawn U-Shaped Piezoresistive Graphite on Compound Fibers for Wind Sensing. Journal of Electronic Materials, 2018, 47, 6518-6524.	1.0	9
41	Surface-defect passivation through complexation with organic molecules leads to enhanced power conversion efficiency and long term stability of perovskite photovoltaics. Science China Materials, 2020, 63, 479-480.	3.5	8
42	Low-Temperature Synthesis of Near-Monodisperse Globular MoS2 Nanoparticles with Sulphur Powders. Nano, 2017, 12, 1750091.	0.5	4
43	Universal organic anodes enable safe low-cost aqueous rechargeable batteries with long cycle life, high capacity, and fast kinetics. Science China Materials, 2017, 60, 789-791.	3.5	4
44	Different Microtubule Structures Assembled by Kinesin Motors. Langmuir, 2018, 34, 9768-9773.	1.6	4
45	MEMS fabrication and frequency sweep for suspending beam and plate electrode in electrostatic capacitor. Solid-State Electronics, 2018, 139, 94-100.	0.8	3