

Xing Fan

List of Publications by Year in descending order

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58
papers

5,542
citations

201575

27
h-index

143943

57
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65
all docs

65
docs citations

65
times ranked

5834
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-cable structured textile for simultaneously harvesting solar and mechanical energy. <i>Nature Energy</i> , 2016, 1, .	19.8	879
2	Networks of Triboelectric Nanogenerators for Harvesting Water Wave Energy: A Potential Approach toward Blue Energy. <i>ACS Nano</i> , 2015, 9, 3324-3331.	7.3	509
3	Ultrathin, Rollable, Paper-Based Triboelectric Nanogenerator for Acoustic Energy Harvesting and Self-Powered Sound Recording. <i>ACS Nano</i> , 2015, 9, 4236-4243.	7.3	419
4	Triboelectricâ€“Pyroelectricâ€“Piezoelectric Hybrid Cell for Highâ€“Efficiency Energyâ€“Harvesting and Selfâ€“Powered Sensing. <i>Advanced Materials</i> , 2015, 27, 2340-2347.	11.1	397
5	Flexible Weaving Constructed Selfâ€“Powered Pressure Sensor Enabling Continuous Diagnosis of Cardiovascular Disease and Measurement of Cuffless Blood Pressure. <i>Advanced Functional Materials</i> , 2019, 29, 1806388.	7.8	297
6	Blow-driven triboelectric nanogenerator as an active alcohol breath analyzer. <i>Nano Energy</i> , 2015, 16, 38-46.	8.2	255
7	A Wearable Allâ€“Solid Photovoltaic Textile. <i>Advanced Materials</i> , 2016, 28, 263-269.	11.1	254
8	Tailorable and Wearable Textile Devices for Solar Energy Harvesting and Simultaneous Storage. <i>ACS Nano</i> , 2016, 10, 9201-9207.	7.3	213
9	Triboelectrificationâ€“Enabled Selfâ€“Powered Detection and Removal of Heavy Metal Ions in Wastewater. <i>Advanced Materials</i> , 2016, 28, 2983-2991.	11.1	204
10	Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. <i>Matter</i> , 2020, 2, 1260-1269.	5.0	204
11	β -cyclodextrin enhanced triboelectrification for self-powered phenol detection and electrochemical degradation. <i>Energy and Environmental Science</i> , 2015, 8, 887-896.	15.6	192
12	Progress in triboelectric nanogenerators as self-powered smart sensors. <i>Journal of Materials Research</i> , 2017, 32, 1628-1646.	1.2	150
13	Fiber-shaped flexible solar cells. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1169-1178.	9.5	141
14	An Ultrarobust High-Performance Triboelectric Nanogenerator Based on Charge Replenishment. <i>ACS Nano</i> , 2015, 9, 5577-5584.	7.3	135
15	High-efficiency ramie fiber degumming and self-powered degumming wastewater treatment using triboelectric nanogenerator. <i>Nano Energy</i> , 2016, 22, 548-557.	8.2	132
16	Photoluminescence and electroluminescence of hexaphenylsilole are enhanced by pressurization in the solid state. <i>Chemical Communications</i> , 2008, , 2989.	2.2	126
17	Conductive mesh based flexible dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2007, 90, 073501.	1.5	120
18	Automatic Mode Transition Enabled Robust Triboelectric Nanogenerators. <i>ACS Nano</i> , 2015, 9, 12334-12343.	7.3	111

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19	Conjunction of fiber solar cells with groovy micro-reflectors as highly efficient energy harvesters. <i>Energy and Environmental Science</i> , 2011, 4, 3379.	15.6	101
20	A non-printed integrated-circuit textile for wireless theranostics. <i>Nature Communications</i> , 2021, 12, 4876.	5.8	76
21	Fibrous flexible solid-type dye-sensitized solar cells without transparent conducting oxide. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	67
22	Engineering hierarchical Diatom@CuO@MnO ₂ hybrid for high performance supercapacitor. <i>Applied Surface Science</i> , 2018, 427, 1158-1165.	3.1	51
23	A cylindrical core-shell-like TiO ₂ nanotube array anode for flexible fiber-type dye-sensitized solar cells. <i>Nanoscale Research Letters</i> , 2011, 6, 94.	3.1	49
24	Transient-axial-chirality controlled asymmetric rhodium-carbene C(sp ²)-H functionalization for the synthesis of chiral fluorenes. <i>Nature Communications</i> , 2020, 11, 2363.	5.8	43
25	From Fiber to Fabric: Progress Towards Photovoltaic Energy Textile. <i>Advanced Fiber Materials</i> , 2021, 3, 76-106.	7.9	36
26	A simple fabrication of electrospun nanofiber sensing materials based on fluorophore-doped polymer. <i>Journal of Materials Chemistry</i> , 2009, 19, 7290.	6.7	35
27	Imperceptible sleep monitoring bedding for remote sleep healthcare and early disease diagnosis. <i>Nano Energy</i> , 2020, 72, 104664.	8.2	28
28	Asymmetric Total Synthesis of (âˆ™)-Clovan-2,9-dione Using Rh(I)-Catalyzed [3 + 2 + 1] Cycloaddition of 1-Yne-vinylcyclopropane and CO. <i>Organic Letters</i> , 2017, 19, 6040-6043.	2.4	27
29	Mn-oxides catalyzed periodic current oscillation on the anode. <i>Electrochimica Acta</i> , 2013, 102, 466-471.	2.6	23
30	Highly-Efficient Dendritic Cable Electrodes for Flexible Supercapacitive Fabric. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40207-40214.	4.0	21
31	Self-Powered All-in-One Fluid Sensor Textile with Enhanced Triboelectric Effect on All-Immersed Dendritic Liquid-Solid Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30819-30826.	4.0	20
32	Periodic Current Oscillation Catalyzed by MnO ₂ Nanosheets. <i>ChemPhysChem</i> , 2015, 16, 176-180.	1.0	18
33	From wires to veins: wet-process fabrication of light-weight reticulation photoanodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 3509.	2.2	17
34	Embroidering a Filmsy Photorechargeable Energy Fabric with Wide Weather Adaptability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3654-3660.	4.0	17
35	Hierarchical forest-like photoelectrodes with ZnO nanoleaves on a metal dendrite array. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9816-9821.	5.2	15
36	Understanding Regioselectivities of Corey-Chaykovsky Reactions of Dimethylsulfoxonium Methylide (DMSOM) and Dimethylsulfonium Methylide (DMSM) toward Enones: A DFT Study. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 582-590.	1.2	15

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37	Optimization of reaction conditions for the electroleaching of manganese from low-grade pyrolusite. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 1121-1130.	2.4	14
38	Periodic Potential Oscillation during Oxygen Evolution Catalyzed by Manganese Oxide at Constant Current. <i>Journal of the Electrochemical Society</i> , 2017, 164, E78-E83.	1.3	14
39	Wet-process Fabrication of Low-cost All-solid Wire-shaped Solar Cells on Manganese-plated Electrodes. <i>Electrochimica Acta</i> , 2015, 161, 358-363.	2.6	12
40	Continuous wet-process growth of ZnO nanoarrays for wire-shaped photoanode of dye-sensitized solar cell. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 172-180.	5.0	12
41	Borondifluoride \hat{I}^2 -diketonate complex as fluorescent organic nanoparticles: aggregation-induced emission for cellular imaging. <i>RSC Advances</i> , 2016, 6, 101937-101940.	1.7	11
42	Efficient and Flexible Supercapacitors Assembled on Metal Spikes. <i>ChemElectroChem</i> , 2015, 2, 1100-1105.	1.7	10
43	Highly efficient electrochemiluminescence from Ru(II) complex with PEO-PHP-PEO as a buffer layer. <i>Journal of Applied Physics</i> , 2008, 103, 104509.	1.1	9
44	Direct preparation of semiconductor iron sulfide nanocrystals from natural pyrite. <i>RSC Advances</i> , 2013, 3, 4539.	1.7	9
45	Nonlinear Self-Organizing Kinetics in the Electrochemical Growth of Alumina Nanotube Arrays. <i>ChemElectroChem</i> , 2014, 1, 925-932.	1.7	6
46	Low-cost zinc-plated photoanode for fabric-type dye-sensitized solar cells. <i>Applied Surface Science</i> , 2016, 363, 323-327.	3.1	6
47	Mechanism and Regioselectivity of Intramolecular [2+2] Cycloaddition of Ene- α -Ketenes: A DFT Study. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5985-5994.	1.2	6
48	Floating Networks of Alga-like Photoelectrodes for Highly Efficient Photoelectrochemical H_2 Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10564-10571.	3.2	6
49	Wet-process preparation of nickel-based photoanode for TCO-less fiber-shaped dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 763-769.	1.2	5
50	Electrochemical Oscillation during Electro-Synthesis of $KMnO_4$ under Highly-Alkaline Condition. <i>Journal of the Electrochemical Society</i> , 2016, 163, E70-E74.	1.3	4
51	Template-Free Electrodeposition of Dendritic Metal Blades for Efficient Flexible Manganese Oxide Electrode. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3559-A3563.	1.3	4
52	Fast crystal transformation of nano MnO_2 induced by mild interfacial oxidation on hierarchical carbon networks for assembling efficient fibrous MnO_2 electrode. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164520.	2.8	4
53	The spray pyrolysis of alkoxide sols on the electrode of fiber-shaped solar cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 428, 32-38.	2.3	3
54	A pulse modulatable self-oscillation kinetics for water oxidation at large current on manganese catalyst. <i>Electrochimica Acta</i> , 2020, 337, 135798.	2.6	3

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55	Microwave-assisted degradation of waste polyethyleneterephthalate (PET) at atmospheric pressure using silicon carbide as power modulator. , 2011, , .		2
56	Time-periodic oscillation reaction in an organic-solvent dominated electrolyte. Physical Chemistry Chemical Physics, 2017, 19, 27643-27650.	1.3	2
57	Embroidering a Light and Foldable Photovoltaic Gauze Kerchiefs. Energy Technology, 2021, 9, 2100285.	1.8	2
58	Photo-Modulatable Potential Oscillation during Organic-Phase Iodization Reaction. Journal of the Electrochemical Society, 2019, 166, H151-H156.	1.3	1