Peihua Yang

List of Publications by Year
in descending order

59 papers	18,349 citations	81900 39 h-index	138484 58 g-index
61 all docs	61 docs citations	61 times ranked	19161 citing authors

#	Article	IF	Citations
1	Room-Temperature Ultraviolet Nanowire Nanolasers. Science, 2001, 292, 1897-1899.	12.6	8,567
2	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. Nature Communications, 2016, 7, 12122.	12.8	1,232
3	Low-Cost High-Performance Solid-State Asymmetric Supercapacitors Based on MnO₂ Nanowires and Fe₂O₃ Nanotubes. Nano Letters, 2014, 14, 731-736.	9.1	1,035
4	Hydrogenated ZnO Coreâ€“Shell Nanocables for Flexible Supercapacitors and Self-Powered Systems. ACS Nano, 2013, 7, 2617-2626.	14.6	781
5	Flexible solid-state electrochemical supercapacitors. Nano Energy, 2014, 8, 274-290.	16.0	734
6	Fiber-Based All-Solid-State Flexible Supercapacitors for Self-Powered Systems. ACS Nano, 2012, 6, 9200-9206.	14.6	596
7	Robust and Low-Cost Flame-Treated Wood for High-Performance Solar Steam Generation. ACS Applied Materials & Interfaces, 2017, 9, 15052-15057.	8.0	463
8	Electrochromic energy storage devices. Materials Today, 2016, 19, 394-402.	14.2	415
9	Solar-driven simultaneous steam production and electricity generation from salinity. Energy and Environmental Science, 2017, 10, 1923-1927.	30.8	380
10	All Metal Nitrides Solidâ€State Asymmetric Supercapacitors. Advanced Materials, 2015, 27, 4566-4571.	21.0	371
11	Aqueous thermogalvanic cells with a high Seebeck coefficient for low-grade heat harvest. Nature Communications, 2018, 9, 5146.	12.8	255
12	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. Angewandte Chemie - International Edition, 2016, 55, 12050-12053.	13.8	210
13	Largeâ€Scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. Angewandte Chemie - International Edition, 2014, 53, 11935-11939.	13.8	207
14	Induced Potential in Porous Carbon Films through Water Vapor Absorption. Angewandte Chemie - International Edition, 2016, 55, 8003-8007.	13.8	170
15	Stable Zinc Anodes Enabled by a Zincophilic Polyanionic Hydrogel Layer. Advanced Materials, 2022, 34, e2202382.	21.0	168
16	Ultrafastâ€Charging Supercapacitors Based on Cornâ€Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, 1500299.	11.2	163
17	Significantly enhanced robustness and electrochemical performance of flexible carbon nanotube-based supercapacitors by electrodepositing polypyrrole. Journal of Power Sources, 2015, 287, 68-74.	7.8	150
18	Surface functional modification boosts the output of an evaporation-driven water flow nanogenerator. Nano Energy, 2019, 58, 797-802.	16.0	145

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19	Highâ€Resolution Inkjet Printing of Quantum Dot Lightâ€Emitting Microdiode Arrays. Advanced Optical Materials, 2020, 8, 1901429.	7.3	145
20	Flexible supercapacitors based on carbon nanotube/MnO₂nanotube hybrid porous films for wearable electronic devices. Journal of Materials Chemistry A, 2014, 2, 17561-17567.	10.3	132
21	Significantly Enhanced Photocatalytic Activities and Charge Separation Mechanism of Pd-Decorated ZnOâ€“Graphene Oxide Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 3623-3629.	8.0	129
22	Bilayer porous polymer for efficient passive building cooling. Nano Energy, 2021, 85, 105971.	16.0	123
23	Worm-like amorphous MnO2nanowires grown on textiles for high-performance flexible supercapacitors. Journal of Materials Chemistry A, 2014, 2, 595-599.	10.3	120
24	Nickel oxide nanoflake-based bifunctional glass electrodes with superior cyclic stability for energy storage and electrochromic applications. Journal of Materials Chemistry A, 2015, 3, 20614-20618.	10.3	119
25	Thermalâ€“Electric Nanogenerator Based on the Electrokinetic Effect in Porous Carbon Film. Advanced Energy Materials, 2018, 8, 1702481.	19.5	111
26	Highly Efficient Water Harvesting with Optimized Solar Thermal Membrane Distillation Device. Global Challenges, 2018, 2, 1800001.	3.6	108
27	Thermal Selfâ€Protection of Zincâ€Ion Batteries Enabled by Smart Hygroscopic Hydrogel Electrolytes. Advanced Energy Materials, 2020, 10, 2002898.	19.5	102
28	Freestanding CNTâ€“WO₃hybrid electrodes for flexible asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 12076-12080.	10.3	101
29	Electricity generation from water droplets via capillary infiltrating. Nano Energy, 2018, 48, 211-216.	16.0	94
30	Quantitative Analysis of Charge Storage Process of Tungsten Oxide that Combines Pseudocapacitive and Electrochromic Properties. Journal of Physical Chemistry C, 2015, 119, 16483-16489.	3.1	93
31	P-N conversion in thermogalvanic cells induced by thermo-sensitive nanogels for body heat harvesting. Nano Energy, 2019, 57, 473-479.	16.0	89
32	Flexible Pseudocapacitive Electrochromics via Inkjet Printing of Additiveâ€Free Tungsten Oxide Nanocrystal Ink. Advanced Energy Materials, 2020, 10, 2000142.	19.5	82
33	Tough hydrogel diodes with tunable interfacial adhesion for safe and durable wearable batteries. Nano Energy, 2018, 48, 569-574.	16.0	63
34	Reciprocal alternate deposition strategy using metal oxide/carbon nanotube for positive and negative electrodes of high-performance supercapacitors. Nano Energy, 2014, 10, 108-116.	16.0	60
35	Band gap engineering of MnO₂ through in situ Al-doping for applicable pseudocapacitors. RSC Advances, 2016, 6, 13914-13919.	3.6	56
36	Inkjet and Extrusion Printing for Electrochemical Energy Storage: A Minireview. Advanced Materials Technologies, 2020, 5, .	5.8	51

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37	Flexible microfluidics nanogenerator based on the electrokinetic conversion. Nano Energy, 2016, 30, 684-690.	16.0	50
38	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. Angewandte Chemie, 2016, 128, 12229-12232.	2.0	44
39	Role of graphene in great enhancement of photocatalytic activity of ZnO nanoparticleâ€“graphene hybrids. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 279-284.	2.7	43
40	Printed Zinc Paper Batteries. Advanced Science, 2022, 9, e2103894.	11.2	42
41	3D zincophilic micro-scaffold enables stable Zn deposition. Energy Storage Materials, 2022, 51, 259-265.	18.0	42
42	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. Nanoscale, 2012, 4, 5755.	5.6	36
43	TiO₂ nanowires for potential facile integration of solar cells and electrochromic devices. Nanotechnology, 2013, 24, 435403.	2.6	32
44	Selfâ€Powered Multimodal Temperature and Force Sensor Basedâ€On a Liquid Droplet. Angewandte Chemie - International Edition, 2016, 55, 15864-15868.	13.8	32
45	A 2.0 V capacitive device derived from shape-preserved metal nitride nanorods. Nano Energy, 2016, 26, 1-6.	16.0	31
46	Electrokinetic Supercapacitor for Simultaneous Harvesting and Storage of Mechanical Energy. ACS Applied Materials & Interfaces, 2018, 10, 8010-8015.	8.0	29
47	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. ChemNanoMat, 2015, 1, 458-476.	2.8	28
48	Fabrication of n-type ZnO nanowire/graphene/p-type silicon hybrid structures and electrical properties of heterojunctions. Physical Chemistry Chemical Physics, 2012, 14, 16111.	2.8	20
49	Mechanical and electrical characterization of semiconducting ZnO nanorings by direct nano-manipulation. Applied Physics Letters, 2012, 101, 081910.	3.3	17
50	Morphology-controllable ZnOnanotubes and nanowires: synthesis, growth mechanism and hydrophobic property. CrystEngComm, 2012, 14, 1723-1728.	2.6	16
51	Radiant air-conditioning with infrared transparent polyethylene aerogel. Materials Today Energy, 2021, 21, 100800.	4.7	10
52	Electrochemical Impedance Analysis of Thermogalvanic Cells. Chemical Research in Chinese Universities, 2020, 36, 420-424.	2.6	9
53	Evaporation induced electricity generation in freestanding and flexible carbon-based hybrid film. Chinese Science Bulletin, 2018, 63, 2846-2852.	0.7	9
54	General strategy for improving dye-sensitized solar cells by using sub-micrometer cavities. Journal of Alloys and Compounds, 2014, 583, 300-304.	5.5	5

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55	Selfâ€Powered Multimodal Temperature and Force Sensor Basedâ€On a Liquid Droplet. Angewandte Chemie, 2016, 128, 16096-16100.	2.0	4
56	Ultraviolet lightâ€“assisted electrokinetic conversion based on TiO2 electrodes. Materials Today Energy, 2020, 18, 100517.	4.7	3
57	Boosting alkaline water electrolysis by asymmetric temperature modulation. Applied Physics Letters, 2021, 119, .	3.3	2
58	Flexible supercapacitors based on carbon nanotube/MnO2 nanotube hybrid porous films for wearable electronic devices. , 2015, , .		0
59	Large-Scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. , 2015, , .		0