

Wei Zeng

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55
papers

2,478
citations

18
h-index

49
g-index

60
ext. papers

3,086
ext. citations

7
avg, IF

5.15
L-index

#	Paper	IF	Citations
55	Fiber-based wearable electronics: a review of materials, fabrication, devices, and applications. <i>Advanced Materials</i> , 2014 , 26, 5310-36	24	1376
54	MXene-Reduced Graphene Oxide Aerogel for Aqueous Zinc-Ion Hybrid Supercapacitor with Ultralong Cycle Life. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900537	6.4	140
53	Adsorption of emerging contaminant metformin using graphene oxide. <i>Chemosphere</i> , 2017 , 179, 20-28	8.4	85
52	Rapid-Response, Low Detection Limit, and High-Sensitivity Capacitive Flexible Tactile Sensor Based on Three-Dimensional Porous Dielectric Layer for Wearable Electronic Skin. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40716-40725	9.5	84
51	A New Free-Standing Aqueous Zinc-Ion Capacitor Based on MnO-CNTs Cathode and MXene Anode. <i>Nano-Micro Letters</i> , 2019 , 11, 70	19.5	71
50	A new flexible zinc-ion capacitor based on MnO ₂ @Carbon cloth battery-type cathode and MXene@Cotton cloth capacitor-type anode. <i>Journal of Power Sources</i> , 2020 , 446, 227345	8.9	67
49	An Ultrahigh Energy Density Quasi-Solid-State Zinc Ion Microbattery with Excellent Flexibility and Thermostability. <i>Advanced Energy Materials</i> , 2019 , 9, 1901957	21.8	57
48	Merrifield resin-supported quinone as an efficient biomimetic catalyst for metal-free, base-free, chemoselective synthesis of 2,4,6-trisubstituted pyridines. <i>Green Chemistry</i> , 2019 , 21, 5683-5690	10	43
47	Hierarchical porous nano-carbon composite: Effective fabrication and application in dye sensitized solar cells. <i>Journal of Power Sources</i> , 2013 , 229, 102-111	8.9	40
46	Diminish the screen effect in field emission via patterned and selective edge growth of ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2009 , 95, 153505	3.4	40
45	Low-Temperature Growing Anatase TiO/SnO Multi-dimensional Heterojunctions at MXene Conductive Network for High-Efficient Perovskite Solar Cells. <i>Nano-Micro Letters</i> , 2020 , 12, 44	19.5	37
44	Enhanced field emission from three-dimensional patterned carbon nanotube arrays grown on flexible carbon cloth. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3478		36
43	In situ synthesis of binded, thick and porous carbon nanoparticle dye sensitized solar cell counter electrode with nickel gel as catalyst source. <i>Journal of Power Sources</i> , 2014 , 245, 456-462	8.9	28
42	Superelastic and ultralight electron source from modifying 3D reduced graphene aerogel microstructure. <i>Nano Energy</i> , 2017 , 33, 280-287	17.1	25
41	Direct Laser Etching Free-Standing MXene-MoS ₂ Film for Highly Flexible Micro-Supercapacitor. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901160	4.6	24
40	Gas bubble templated synthesis of Mn ₃ O ₄ -embedded hollow carbon nanospheres in ethanol flame for elastic supercapacitor. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 210-221	5.7	23
39	A Novel Aqueous Zinc-Ion Hybrid Supercapacitor Based on TiS ₂ (De)Intercalation Battery-Type Anode. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000388	6.4	19

38	Oriented haloing metal-organic framework providing high efficiency and high moisture-resistance for perovskite solar cells. <i>Journal of Power Sources</i> , 2019 , 433, 226699	8.9	18
37	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. <i>Diamond and Related Materials</i> , 2009 , 18, 1381-1386	3.5	17
36	Compressible Supercapacitor with Residual Stress Effect for Sensitive Elastic-Electrochemical Stress Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38057-38065	9.5	17
35	Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900637	6.4	16
34	A Self-Powered Flexible Thermoelectric Sensor and Its Application on the Basis of the Hollow PEDOT:PSS Fiber. <i>Polymers</i> , 2020 , 12,	4.5	15
33	Superelastic active graphene aerogels dried in natural environment for sensitive supercapacitor-type stress sensor. <i>Electrochimica Acta</i> , 2018 , 283, 1390-1400	6.7	15
32	Highly Flexible and Self-Healable Zinc-Ion Hybrid Supercapacitors Based on MWCNTs-RGO Fibers. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000268	6.8	15
31	Effect of the nonaxisymmetric endwall on wet steam condensation flow in a stator cascade. <i>Energy Science and Engineering</i> , 2019 , 7, 557-572	3.4	13
30	Vibration test method to study elastic stability of porous carbon nanocomposite counter electrode in dye sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7101-8	9.5	13
29	Synthesis of patterned carbon nanotube arrays for field emission using a two layer Sn/Ni catalyst in an ethanol flame. <i>Diamond and Related Materials</i> , 2009 , 18, 1375-1380	3.5	12
28	Enhanced Field Emission From Aligned ZnO Nanowires Grown on a Graphene Layer With Hydrothermal Method. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 167-171	2.6	11
27	Asymmetric supercapacitor for sensitive elastic-electrochemical stress sensor. <i>Journal of Power Sources</i> , 2018 , 402, 353-362	8.9	11
26	High performance ZnO nanorod strain driving transistor based complementary metal-oxide-semiconductor logic gates. <i>Applied Physics Letters</i> , 2010 , 97, 243504	3.4	10
25	Coupled Model of Heat and Mass Balance for Droplet Growth in Wet Steam Non-Equilibrium Homogeneous Condensation Flow. <i>Energies</i> , 2017 , 10, 2033	3.1	9
24	A flexible, heat-resistant and self-healable Bocking-chair Zinc ion microbattery based on MXene-TiS ₂ (de)intercalation anode. <i>Journal of Power Sources</i> , 2021 , 504, 230076	8.9	9
23	Flame Synthesis of Spring-Like Nanocarbon and Its Application in Flexible Free-Standing Mattress-Like Supercapacitor Electrode. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2823-A2829	3.9	8
22	A laser etched zinc ion microbattery with excellent flexibility and self-healability. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4713-4721	5.8	8
21	Ultracompact, Well-Packed Perovskite Flat Crystals: Preparation and Application in Planar Solar Cells with High Efficiency and Humidity Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11283-11291	8.5	8

20	Prediction of Standard Enthalpies of Formation Based on Hydrocarbon Molecular Descriptors and Active Subspace Methodology. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4785-4791	3.9	7
19	Supercapacitive brophene-graphene aerogel as elastic-electrochemical dielectric layer for sensitive pressure sensors. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 355-364	9.3	7
18	Synergistic enhancing photoelectrochemical response of Bi10O6S9 with WO3 optical heterojunction in wide wavelength range. <i>Applied Surface Science</i> , 2020 , 509, 144697	6.7	6
17	Hydrolysis of phosphate diester catalysed by transition metal complexes of a salicylaldehyde Schiff base bearing dibenzo-18-crown-6. <i>Journal of Chemical Research</i> , 2005 , 2005, 130-134	0.6	5
16	Architecturing Lattice-Matched Bismuthene/BiO2 Heterojunction for Effective Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	4
15	Regenerated Silk Fibroin-Modified Soft Graphene Aerogels for Supercapacitive Stress Sensors. <i>Journal of the Electrochemical Society</i> ,	3.9	4
14	Nature-mimic fabricated polydopamine/MIL-53(Fe): efficient visible-light responsive photocatalysts for the selective oxidation of alcohols. <i>New Journal of Chemistry</i> , 2020 , 44, 2102-2110	3.6	2
13	Mesoporous Au@Cu2S Core/Shell Nanoparticles with Double Localized Surface Plasmon Resonance and Ligand Modulation for Hole-Selective Passivation in Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100358	7.1	2
12	A highly flexible and self-healable rechargeable fibrous Zn/MnO2 battery. <i>Sustainable Energy and Fuels</i> ,	5.8	2
11	A flexible in-plane p/n heterojunction nano-generator with phonon-enhanced photothermoelectric effect to harvest solar energy. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14958-14968	1.3	2
10	Fabrication and Application of Different Nanostructured ZnO in Ultraviolet Photodetectors: A Review. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
9	Ti3C2Tx MXene/Ge 2D/3D van der Waals heterostructures as highly efficient and fast response near-infrared photodetectors. <i>Applied Physics Letters</i> , 2022 , 120, 141103	3.4	2
8	Low-bandgap conjugated polymers with photocurrent response over 1000 nm. <i>Journal of Materials Science</i> , 2021 , 56, 8334-8357	4.3	1
7	Benzobisthiadiazole and Its Derivative-Based Semiconducting Polymer Nanoparticles for Second Near-Infrared Photoacoustic Imaging.. <i>Frontiers in Chemistry</i> , 2022 , 10, 842712	5	1
6	Enhanced pressure sensors in supercapacitive/piezoelectric mixed mode with jelly-gel as dielectric layer. <i>Journal of Materials Science</i> , 2022 , 57, 3553-3564	4.3	0
5	BTP-Rh@g-C3N4 as an efficient recyclable catalyst for dehydrogenation and borrowing hydrogen reactions. <i>Applied Organometallic Chemistry</i> , e6504	3.1	0
4	Lattice origin of few-layer edge-on MoS2@TiO2 octahedral clusters for piezoelectric enhancement. <i>Applied Surface Science</i> , 2022 , 588, 152942	6.7	0
3	Metal-organic Frameworks-derived Hollow Octadecahedron Nanocages for Supercapacitors and Wearable Self-powered Tactile Stress Sensor. <i>Applied Surface Science</i> , 2022 , 153822	6.7	0

- 2 Designing preamplifier for sensing atmospheric electrostatic field strength via supercapacitive sensor. *Journal of Physics: Conference Series*, **2020**, 1607, 012084 0.3
- 1 Versatile hydrogel based on polyvinyl alcohol/chitosan/regenerated silk fibroin. *Journal of Physics: Conference Series*, **2021**, 2011, 012058 0.3