Wei Zeng

List of Publications by Year
in descending order

Version: 2024-02-01

60 papers	3,659 citations	279798 23 h-index	144013 57 g-index
60 all docs	60 docs citations	60 times ranked	5615 citing authors

#	Article	IF	Citations
1	Fiberâ€Based Wearable Electronics: A Review of Materials, Fabrication, Devices, and Applications. Advanced Materials, 2014, 26, 5310-5336.	21.0	1,689
2	MXeneâ€Reduced Graphene Oxide Aerogel for Aqueous Zincâ€Ion Hybrid Supercapacitor with Ultralong Cycle Life. Advanced Electronic Materials, 2019, 5, 1900537.	5.1	259
3	Rapid-Response, Low Detection Limit, and High-Sensitivity Capacitive Flexible Tactile Sensor Based on Three-Dimensional Porous Dielectric Layer for Wearable Electronic Skin. ACS Applied Materials & Interfaces, 2019, 11, 40716-40725.	8.0	173
4	A New Free-Standing Aqueous Zinc-Ion Capacitor Based on MnO2â€“CNTs Cathode and MXene Anode. Nano-Micro Letters, 2019, 11, 70.	27.0	139
5	Adsorption of emerging contaminant metformin using graphene oxide. Chemosphere, 2017, 179, 20-28.	8.2	129
6	A new flexible zinc-ion capacitor based on Î´-MnO2@Carbon cloth battery-type cathode and MXene@Cotton cloth capacitor-type anode. Journal of Power Sources, 2020, 446, 227345.	7.8	123
7	An Ultrahigh Energy Density Quasiâ€Solidâ€State Zinc Ion Microbattery with Excellent Flexibility and Thermostability. Advanced Energy Materials, 2019, 9, 1901957.	19.5	111
8	Low-Temperature Growing Anatase TiO2/SnO2 Multi-dimensional Heterojunctions at MXene Conductive Network for High-Efficient Perovskite Solar Cells. Nano-Micro Letters, 2020, 12, 44.	27.0	76
9	Merrifield resin-supported quinone as an efficient biomimetic catalyst for metal-free, base-free, chemoselective synthesis of 2,4,6-trisubstituted pyridines. Green Chemistry, 2019, 21, 5683-5690.	9.0	56
10	Direct Laser Etching Freeâ€Standing MXeneâ€MoS₂ Film for Highly Flexible Microâ€Supercapacitor. Advanced Materials Interfaces, 2019, 6, 1901160.	3.7	51
11	A Novel Aqueous Zincâ€Ion Hybrid Supercapacitor Based on TiS₂ (De)Intercalation Batteryâ€Type Anode. Advanced Electronic Materials, 2020, 6, 2000388.	5.1	46
12	Diminish the screen effect in field emission via patterned and selective edge growth of ZnO nanorod arrays. Applied Physics Letters, 2009, 95, .	3.3	44
13	Highly Flexible and Selfâ€Healable Zincâ€Ion Hybrid Supercapacitors Based on MWCNTsâ€RGO Fibers. Advanced Materials Technologies, 2020, 5, 2000268.	5.8	44
14	Hierarchical porous nano-carbon composite: Effective fabrication and application in dye sensitized solar cells. Journal of Power Sources, 2013, 229, 102-111.	7.8	40
15	Enhanced field emission from three-dimensional patterned carbon nanotube arrays grown on flexible carbon cloth. Journal of Materials Chemistry, 2012, 22, 3478.	6.7	39
16	A flexible, heat-resistant and self-healable â€œrocking-chairâ€• zinc ion microbattery based on MXene-TiS2 (de)intercalation anode. Journal of Power Sources, 2021, 504, 230076.	7.8	33
17	In situ synthesis of binded, thick and porous carbon nanoparticle dye sensitized solar cell counter electrode with nickel gel as catalyst source. Journal of Power Sources, 2014, 245, 456-462.	7.8	29
18	Oriented haloing metal-organic framework providing high efficiency and high moisture-resistance for perovskite solar cells. Journal of Power Sources, 2019, 433, 226699.	7.8	29

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19	A Self-Powered Flexible Thermoelectric Sensor and Its Application on the Basis of the Hollow PEDOT:PSS Fiber. Polymers, 2020, 12, 553.	4.5	29
20	Gas bubble templated synthesis of Mn3O4-embedded hollow carbon nanospheres in ethanol flame for elastic supercapacitor. Journal of Alloys and Compounds, 2018, 731, 210-221.	5.5	28
21	Supercapacitive brophene-graphene aerogel as elastic-electrochemical dielectric layer for sensitive pressure sensors. Journal of Colloid and Interface Science, 2021, 601, 355-364.	9.4	27
22	Superelastic and ultralight electron source from modifying 3D reduced graphene aerogel microstructure. Nano Energy, 2017, 33, 280-287.	16.0	26
23	Compressible Supercapacitor with Residual Stress Effect for Sensitive Elastic-Electrochemical Stress Sensor. ACS Applied Materials & Interfaces, 2018, 10, 38057-38065.	8.0	25
24	Resilient bismuthene-graphene architecture for multifunctional energy storage and wearable ionic-type capacitive pressure sensor device. Journal of Colloid and Interface Science, 2022, 626, 23-34.	9.4	25
25	Superelastic active graphene aerogels dried in natural environment for sensitive supercapacitor-type stress sensor. Electrochimica Acta, 2018, 283, 1390-1400.	5.2	24
26	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. Diamond and Related Materials, 2009, 18, 1381-1386.	3.9	20
27	Effect of the nonaxisymmetric endwall on wet steam condensation flow in a stator cascade. Energy Science and Engineering, 2019, 7, 557-572.	4.0	20
28	Ultrathin PEDOT:PSS/rGO Aerogel Providing Tapeâ€Like Selfâ€Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. Advanced Electronic Materials, 2019, 5, 1900637.	5.1	19
29	A laser etched zinc ion microbattery with excellent flexibility and self-healability. Sustainable Energy and Fuels, 2020, 4, 4713-4721.	4.9	16
30	A flexible in-plane pâ€“n heterojunction nano-generator with phonon-enhanced photothermoelectric effect to harvest solar energy. Journal of Materials Chemistry A, 2021, 9, 14958-14968.	10.3	16
31	Synthesis of patterned carbon nanotube arrays for field emission using a two layer Sn/Ni catalyst in an ethanol flame. Diamond and Related Materials, 2009, 18, 1375-1380.	3.9	14
32	Vibration Test Method to Study Elastic Stability of Porous Carbon Nanocomposite Counter Electrode in Dye Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 7101-7108.	8.0	14
33	Asymmetric supercapacitor for sensitive elastic-electrochemical stress sensor. Journal of Power Sources, 2018, 402, 353-362.	7.8	14
34	A highly selective gas sensor based on the WO₃/WS₂ van der Waals heterojunction for the 2-chloroethyl ethyl sulfide (2-CEES) sensing application. Journal of Materials Chemistry C, 2021, 9, 17496-17503.	5.5	14
35	Coupled Model of Heat and Mass Balance for Droplet Growth in Wet Steam Non-Equilibrium Homogeneous Condensation Flow. Energies, 2017, 10, 2033.	3.1	13
36	Mesoporous Au@Cu_{2â^'x}S Coreâ€“Shell Nanoparticles with Double Localized Surface Plasmon Resonance and Ligand Modulation for Holeâ€Selective Passivation in Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100358.	5.8	13

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37	Metalâ€“organic frameworks-derived hollow octadecahedron nanocages for supercapacitors and wearable self-powered tactile stress sensor. Applied Surface Science, 2022, 599, 153822.	6.1	13
38	High performance ZnO nanorod strain driving transistor based complementary metal-oxide-semiconductor logic gates. Applied Physics Letters, 2010, 97, 243504.	3.3	12
39	Enhanced Field Emission From Aligned ZnO Nanowires Grown on a Graphene Layer With Hydrothermal Method. IEEE Nanotechnology Magazine, 2014, 13, 167-171.	2.0	12
40	Ultracompact, Well-Packed Perovskite Flat Crystals: Preparation and Application in Planar Solar Cells with High Efficiency and Humidity Tolerance. ACS Applied Materials & Interfaces, 2019, 11, 11283-11291.	8.0	12
41	Low-bandgap conjugated polymers with photocurrent response over 1000Ânm. Journal of Materials Science, 2021, 56, 8334-8357.	3.7	12
42	Fabrication and Application of Different Nanostructured ZnO in Ultraviolet Photodetectors: A Review. IEEE Sensors Journal, 2022, 22, 7451-7462.	4.7	12
43	Prediction of Standard Enthalpies of Formation Based on Hydrocarbon Molecular Descriptors and Active Subspace Methodology. Industrial & Engineering Chemistry Research, 2020, 59, 4785-4791.	3.7	11
44	Ti3C2Tx MXene/Ge 2D/3D van der Waals heterostructures as highly efficient and fast response near-infrared photodetectors. Applied Physics Letters, 2022, 120, .	3.3	11
45	Flame Synthesis of Spring-Like Nanocarbon and Its Application in Flexible Free-Standing Mattress-Like Supercapacitor Electrode. Journal of the Electrochemical Society, 2017, 164, A2823-A2829.	2.9	9
46	Synergistic enhancing photoelectrochemical response of Bi10O6S9 with WO3 optical heterojunction in wide wavelength range. Applied Surface Science, 2020, 509, 144697.	6.1	9
47	A highly flexible and self-healable rechargeable fibrous Znâ€“MnO₂ battery. Sustainable Energy and Fuels, 2021, 5, 2907-2915.	4.9	9
48	Regenerated Silk Fibroin-Modified Soft Graphene Aerogels for Supercapacitive Stress Sensors. Journal of the Electrochemical Society, 2021, 168, 117511.	2.9	9
49	Architecturing Lattice-Matched Bismutheneâ€“SnO₂ Heterojunction for Effective Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	8
50	Benzobisthiadiazole and Its Derivative-Based Semiconducting Polymer Nanoparticles for Second Near-Infrared Photoacoustic Imaging. Frontiers in Chemistry, 2022, 10, 842712.	3.6	8
51	Lattice origin of few-layer edge-on MoS2@TiO2 octahedral clusters for piezoelectric enhancement. Applied Surface Science, 2022, 588, 152942.	6.1	8
52	Porous Pure MXene Fibrous Network for Highly Sensitive Pressure Sensors. Langmuir, 2022, 38, 5494-5501.	3.5	8
53	Nature-mimic fabricated polydopamine/MIL-53(Fe): efficient visible-light responsive photocatalysts for the selective oxidation of alcohols. New Journal of Chemistry, 2020, 44, 2102-2110.	2.8	6
54	Enhanced pressure sensors in supercapacitiveâ€“piezoelectric mixed mode with jelly-gel as dielectric layer. Journal of Materials Science, 2022, 57, 3553-3564.	3.7	6

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55	Highly Transparent and Flexible Zn-Ti₃C₂T_x MXene Hybrid Capacitors. Langmuir, 2022, 38, 5968-5976.	3.5	6
56	Hydrolysis of phosphate diester catalysed by transition metal complexes of a salicylaldimine Schiff base bearing dibenzo-18-crown-6. Journal of Chemical Research, 2005, 2005, 130-134.	1.3	5
57	BTPâ€Rh@gâ€C₃N₄ as an efficient recyclable catalyst for dehydrogenation and borrowing hydrogen reactions. Applied Organometallic Chemistry, 2022, 36, e6504.	3.5	3
58	The Surface Structure Origin of Carbon Fiber with Enhanced Electrothermal Properties Prepared by Modification of Graphene Coating. Journal of Electronic Materials, 2022, 51, 4288-4298.	2.2	3
59	Designing preamplifier for sensing atmospheric electrostatic field strength via supercapacitive sensor. Journal of Physics: Conference Series, 2020, 1607, 012084.	0.4	0
60	Versatile hydrogel based on polyvinyl alcohol/chitosan/regenerated silk fibroin. Journal of Physics: Conference Series, 2021, 2011, 012058.	0.4	0