

# Wei Zeng

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2461537/wei-zeng-publications-by-year.pdf>

**Version:** 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enhanced pressure sensors in supercapacitive piezoelectric mixed mode with jelly-gel as dielectric layer. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 3553-3564	4.3	0
54	Fabrication and Application of Different Nanostructured ZnO in Ultraviolet Photodetectors: A Review. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1	4	2
53	Benzobisthiadiazole and Its Derivative-Based Semiconducting Polymer Nanoparticles for Second Near-Infrared Photoacoustic Imaging.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 842712	5	1
52	Ti3C2Tx MXene/Ge 2D/3D van der Waals heterostructures as highly efficient and fast response near-infrared photodetectors. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 141103	3.4	2
51	Lattice origin of few-layer edge-on MoS2@TiO2 octahedral clusters for piezoelectric enhancement. <i>Applied Surface Science</i> , <b>2022</b> , 588, 152942	6.7	0
50	Metal-organic Frameworks-derived Hollow Octadecahedron Nanocages for Supercapacitors and Wearable Self-powered Tactile Stress Sensor. <i>Applied Surface Science</i> , <b>2022</b> , 153822	6.7	0
49	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> , <b>2021</b> , 5, 2100358	7.1	2
48	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> , <b>2021</b> , 9, 14958-14968	13	2
47	Low-bandgap conjugated polymers with photocurrent response over 1000 nm. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 8334-8357	4.3	1
46	A flexible, heat-resistant and self-healable locking-chair zinc ion microbattery based on MXene-TiS2 (de)intercalation anode. <i>Journal of Power Sources</i> , <b>2021</b> , 504, 230076	8.9	9
45	Versatile hydrogel based on polyvinyl alcohol/chitosan/regenerated silk fibroin. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2011, 012058	0.3	
44	Supercapacitive brophene-graphene aerogel as elastic-electrochemical dielectric layer for sensitive pressure sensors. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 355-364	9.3	7
43	Designing preamplifier for sensing atmospheric electrostatic field strength via supercapacitive sensor. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1607, 012084	0.3	
42	Prediction of Standard Enthalpies of Formation Based on Hydrocarbon Molecular Descriptors and Active Subspace Methodology. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 4785-4791	3.9	7
41	A Self-Powered Flexible Thermoelectric Sensor and Its Application on the Basis of the Hollow PEDOT:PSS Fiber. <i>Polymers</i> , <b>2020</b> , 12,	4.5	15
40	Architecturing Lattice-Matched Bismuthene/SnO2 Heterojunction for Effective Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> ,	8.3	4
39	Low-Temperature Growing Anatase TiO/SnO Multi-dimensional Heterojunctions at MXene Conductive Network for High-Efficient Perovskite Solar Cells. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 44	19.5	37

38	A new flexible zinc-ion capacitor based on EMnO <sub>2</sub> @Carbon cloth battery-type cathode and MXene@Cotton cloth capacitor-type anode. <i>Journal of Power Sources</i> , <b>2020</b> , 446, 227345	8.9	67
37	Nature-mimic fabricated polydopamine/MIL-53(Fe): efficient visible-light responsive photocatalysts for the selective oxidation of alcohols. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 2102-2110	3.6	2
36	Synergistic enhancing photoelectrochemical response of Bi <sub>10</sub> O <sub>6</sub> S <sub>9</sub> with WO <sub>3</sub> optical heterojunction in wide wavelength range. <i>Applied Surface Science</i> , <b>2020</b> , 509, 144697	6.7	6
35	A laser etched zinc ion microbattery with excellent flexibility and self-healability. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4713-4721	5.8	8
34	Highly Flexible and Self-Healable Zinc-Ion Hybrid Supercapacitors Based on MWCNTs-RGO Fibers. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000268	6.8	15
33	A Novel Aqueous Zinc-Ion Hybrid Supercapacitor Based on TiS <sub>2</sub> (De)Intercalation Battery-Type Anode. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000388	6.4	19
32	An Ultrahigh Energy Density Quasi-Solid-State Zinc Ion Microbattery with Excellent Flexibility and Thermostability. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901957	21.8	57
31	Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900637	6.4	16
30	A New Free-Standing Aqueous Zinc-Ion Capacitor Based on MnO-CNTs Cathode and MXene Anode. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 70	19.5	71
29	Oriented halving metal-organic framework providing high efficiency and high moisture-resistance for perovskite solar cells. <i>Journal of Power Sources</i> , <b>2019</b> , 433, 226699	8.9	18
28	Effect of the nonaxisymmetric endwall on wet steam condensation flow in a stator cascade. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 557-572	3.4	13
27	MXene-Reduced Graphene Oxide Aerogel for Aqueous Zinc-Ion Hybrid Supercapacitor with Ultralong Cycle Life. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900537	6.4	140
26	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> , <b>2019</b> , 21, 5683-5690	10	43
25	Direct Laser Etching Free-Standing MXene-MoS <sub>2</sub> Film for Highly Flexible Micro-Supercapacitor. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901160	4.6	24
24	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 &amp; Interfaces</i> , <b>2019</b> , 11, 40716-40725	9.5	84
23	Ultracompact, Well-Packed Perovskite Flat Crystals: Preparation and Application in Planar Solar Cells with High Efficiency and Humidity Tolerance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 11283-11291	8.5	81
22	Gas bubble templated synthesis of Mn <sub>3</sub> O <sub>4</sub> -embedded hollow carbon nanospheres in ethanol flame for elastic supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 210-221	5.7	23
21	Superelastic active graphene aerogels dried in natural environment for sensitive supercapacitor-type stress sensor. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 1390-1400	6.7	15

20	Asymmetric supercapacitor for sensitive elastic-electrochemical stress sensor. <i>Journal of Power Sources</i> , <b>2018</b> , 402, 353-362	8.9	11
19	Compressible Supercapacitor with Residual Stress Effect for Sensitive Elastic-Electrochemical Stress Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38057-38065	9.5	17
18	Superelastic and ultralight electron source from modifying 3D reduced graphene aerogel microstructure. <i>Nano Energy</i> , <b>2017</b> , 33, 280-287	17.1	25
17	Adsorption of emerging contaminant metformin using graphene oxide. <i>Chemosphere</i> , <b>2017</b> , 179, 20-28	8.4	85
16	Flame Synthesis of Spring-Like Nanocarbon and Its Application in Flexible Free-Standing Mattress-Like Supercapacitor Electrode. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2823-A2829	3.9	8
15	Coupled Model of Heat and Mass Balance for Droplet Growth in Wet Steam Non-Equilibrium Homogeneous Condensation Flow. <i>Energies</i> , <b>2017</b> , 10, 2033	3.1	9
14	Enhanced Field Emission From Aligned ZnO Nanowires Grown on a Graphene Layer With Hydrothermal Method. <i>IEEE Nanotechnology Magazine</i> , <b>2014</b> , 13, 167-171	2.6	11
13	Fiber-based wearable electronics: a review of materials, fabrication, devices, and applications. <i>Advanced Materials</i> , <b>2014</b> , 26, 5310-36	24	1376
12	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> , <b>2014</b> , 245, 456-462	8.9	28
11	Vibration test method to study elastic stability of porous carbon nanocomposite counter electrode in dye sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7101-8	9.5	13
10	Hierarchical porous nano-carbon composite: Effective fabrication and application in dye sensitized solar cells. <i>Journal of Power Sources</i> , <b>2013</b> , 229, 102-111	8.9	40
9	Enhanced field emission from three-dimensional patterned carbon nanotube arrays grown on flexible carbon cloth. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3478		36
8	High performance ZnO nanorod strain driving transistor based complementary metal-oxide-semiconductor logic gates. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 243504	3.4	10
7	Diminish the screen effect in field emission via patterned and selective edge growth of ZnO nanorod arrays. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 153505	3.4	40
6	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> , <b>2009</b> , 18, 1375-1380	3.5	12
5	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 1381-1386	3.5	17
4	Hydrolysis of phosphate diester catalysed by transition metal complexes of a salicylaldimine Schiff base bearing dibenzo-18-crown-6. <i>Journal of Chemical Research</i> , <b>2005</b> , 2005, 130-134	0.6	5
3	BTP-Rh@g-C3N4 as an efficient recyclable catalyst for dehydrogenation and borrowing hydrogen reactions. <i>Applied Organometallic Chemistry</i> , e6504	3.1	0

- |   |   |     |   |
|---|---|-----|---|
| 2 | Regenerated Silk Fibroin-Modified Soft Graphene Aerogels for Supercapacitive Stress Sensors. <i>Journal of the Electrochemical Society,</i> | 3.9 | 4 |
| 1 | A highly flexible and self-healable rechargeable fibrous Zn/MnO <sub>2</sub> battery. <i>Sustainable Energy and Fuels,</i>                  | 5.8 | 2 |