

# Zi-Jian Zheng

## List of Publications by Year in descending order

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29  
papers

1,520  
citations

471509

17  
h-index

477307

29  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1833  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Practical High-Energy and High-Power Lithium Battery Anodes: Present and Future. <i>Advanced Science</i> , 2022, 9, e2105213.	11.2	84
2	MOF composite fibrous separators for high-rate lithium-ion batteries. <i>Journal of Materials Science</i> , 2021, 56, 5868-5877.	3.7	24
3	Role of a nanoparticle network in polymer mechanical reinforcement: insights from molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21797-21807.	2.8	4
4	Flexible Carbon Nanofibrous Membranes with Adjustable Hierarchical Porous Structure as High-Capacity Anodes for Sodium-Ion Batteries. <i>Energy Technology</i> , 2021, 9, 2100049.	3.8	11
5	Recent progress on pristine metal/covalent-organic frameworks and their composites for lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2021, 14, 1835-1853.	30.8	150
6	Recent Progress in Designing Stable Composite Lithium Anodes with Improved Wettability. <i>Advanced Science</i> , 2020, 7, 2002212.	11.2	95
7	Recent advances and prospects of layered transition metal oxide cathodes for sodium-ion batteries. <i>Energy Storage Materials</i> , 2020, 30, 9-26.	18.0	127
8	Topological design of ultrastrong MXene paper hosted Li enables ultrathin and fully flexible lithium metal batteries. <i>Nano Energy</i> , 2020, 74, 104817.	16.0	112
9	A super-lithiophilic nanocrystallization strategy for stable lithium metal anodes. <i>Nano Energy</i> , 2020, 73, 104731.	16.0	36
10	Low volume change composite lithium metal anodes. <i>Nano Energy</i> , 2019, 64, 103910.	16.0	68
11	A pomegranate-like porous carbon nanomaterial as selenium host for stable lithium-selenium batteries. <i>Materials Letters</i> , 2019, 244, 134-137.	2.6	5
12	Guiding Uniform Li Plating/Stripping through Lithium-Aluminum Alloying Medium for Long-Life Li Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1094-1099.	13.8	287
13	Guiding Uniform Li Plating/Stripping through Lithium-Aluminum Alloying Medium for Long-Life Li Metal Batteries. <i>Angewandte Chemie</i> , 2019, 131, 1106-1111.	2.0	52
14	Effects of chemically heterogeneous nanoparticles on polymer dynamics: insights from molecular dynamics simulations. <i>Soft Matter</i> , 2018, 14, 1219-1226.	2.7	16
15	Realizing a highly stable sodium battery with dendrite-free sodium metal composite anodes and O <sub>3</sub> -type cathodes. <i>Nano Energy</i> , 2018, 48, 369-376.	16.0	99
16	Theoretical Model of Time-Temperature Superposition Principle of the Self-Healing Kinetics of Supramolecular Polymer Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800382.	3.9	20
17	Nitrogen and Oxygen Co-doped Graphitized Carbon Fibers with Sodiophilic-Rich Sites Guide Uniform Sodium Nucleation for Ultrahigh-Capacity Sodium-Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30417-30425.	8.0	78
18	Onion-like carbon microspheres as long-life anodes materials for Na-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 12421-12431.	3.7	20

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19	Molecular Dynamics Simulation Study of Polymer Nanocomposites with Controllable Dispersion of Spherical Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10146-10156.	2.6	11
20	Self-Assembly of Block Copolymer Chains To Promote the Dispersion of Nanoparticles in Polymer Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9311-9318.	2.6	16
21	Tuning the Mechanical Properties of Polymer Nanocomposites Filled with Grafted Nanoparticles by Varying the Grafted Chain Length and Flexibility. <i>Polymers</i> , 2016, 8, 270.	4.5	13
22	Tailoring the Static and Dynamic Mechanical Properties of Tri-Block Copolymers through Molecular Dynamics Simulation. <i>Polymers</i> , 2016, 8, 335.	4.5	15
23	Dispersion and shear-induced orientation of anisotropic nanoparticle filled polymer nanocomposites: insights from molecular dynamics simulation. <i>Nanotechnology</i> , 2016, 27, 265704.	2.6	16
24	Tuning the visco-elasticity of elastomeric polymer materials via flexible nanoparticles: insights from molecular dynamics simulation. <i>RSC Advances</i> , 2016, 6, 28666-28678.	3.6	18
25	Stress-strain behavior of block-copolymers and their nanocomposites filled with uniform or Janus nanoparticles under shear: a molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27232-27244.	2.8	16
26	Influence of Morphology on the Mechanical Properties of Polymer Nanocomposites Filled with Uniform or Patchy Nanoparticles. <i>Langmuir</i> , 2016, 32, 8473-8483.	3.5	15
27	Tuning the structure and mechanical property of polymer nanocomposites by employing anisotropic nanoparticles as netpoints. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25090-25099.	2.8	5
28	Nanoparticle chemically end-linking elastomer network with super-low hysteresis loss for fuel-saving automobile. <i>Nano Energy</i> , 2016, 28, 87-96.	16.0	72
29	Revealing the toughening mechanism of graphene-polymer nanocomposite through molecular dynamics simulation. <i>Nanotechnology</i> , 2015, 26, 291003.	2.6	35