Zi-Jian Zheng

List of Publications by Year
in descending order

29	1,520	471509 17	477307 29
papers	citations	h-index	g-index

29	29	29	1833
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guiding Uniform Li Plating/Stripping through Lithiumâ€“Aluminum Alloying Medium for Longâ€Life Li Metal Batteries. Angewandte Chemie - International Edition, 2019, 58, 1094-1099.	13.8	287
2	Recent progress on pristine metal/covalent-organic frameworks and their composites for lithiumâ€“sulfur batteries. Energy and Environmental Science, 2021, 14, 1835-1853.	30.8	150
3	Recent advances and prospects of layered transition metal oxide cathodes for sodium-ion batteries. Energy Storage Materials, 2020, 30, 9-26.	18.0	127
4	Topological design of ultrastrong MXene paper hosted Li enables ultrathin and fully flexible lithium metal batteries. Nano Energy, 2020, 74, 104817.	16.0	112
5	Realizing a highly stable sodium battery with dendrite-free sodium metal composite anodes and O3-type cathodes. Nano Energy, 2018, 48, 369-376.	16.0	99
6	Recent Progress in Designing Stable Composite Lithium Anodes with Improved Wettability. Advanced Science, 2020, 7, 2002212.	11.2	95
7	Toward Practical Highâ€Energy and Highâ€Power Lithium Battery Anodes: Present and Future. Advanced Science, 2022, 9, e2105213.	11.2	84
8	Nitrogen and Oxygen Co-doped Graphitized Carbon Fibers with Sodiophilic-Rich Sites Guide Uniform Sodium Nucleation for Ultrahigh-Capacity Sodium-Metal Anodes. ACS Applied Materials & Interfaces, 2018, 10, 30417-30425.	8.0	78
9	Nanoparticle chemically end-linking elastomer network with super-low hysteresis loss for fuel-saving automobile. Nano Energy, 2016, 28, 87-96.	16.0	72
10	Low volume change composite lithium metal anodes. Nano Energy, 2019, 64, 103910.	16.0	68
11	Guiding Uniform Li Plating/Stripping through Lithiumâ€“Aluminum Alloying Medium for Longâ€Life Li Metal Batteries. Angewandte Chemie, 2019, 131, 1106-1111.	2.0	52
12	A super-lithiophilic nanocrystallization strategy for stable lithium metal anodes. Nano Energy, 2020, 73, 104731.	16.0	36
13	Revealing the toughening mechanism of grapheneâ€“polymer nanocomposite through molecular dynamics simulation. Nanotechnology, 2015, 26, 291003.	2.6	35
14	MOF composite fibrous separators for high-rate lithium-ion batteries. Journal of Materials Science, 2021, 56, 5868-5877.	3.7	24
15	Theoretical Model of Timeâ€“Temperature Superposition Principle of the Selfâ€Healing Kinetics of Supramolecular Polymer Nanocomposites. Macromolecular Rapid Communications, 2018, 39, e1800382.	3.9	20
16	Onion-like carbon microspheres as long-life anodes materials for Na-ion batteries. Journal of Materials Science, 2018, 53, 12421-12431.	3.7	20
17	Tuning the visco-elasticity of elastomeric polymer materials via flexible nanoparticles: insights from molecular dynamics simulation. RSC Advances, 2016, 6, 28666-28678.	3.6	18
18	Dispersion and shear-induced orientation of anisotropic nanoparticle filled polymer nanocomposites: insights from molecular dynamics simulation. Nanotechnology, 2016, 27, 265704.	2.6	16

#	Article	IF	Citations
19	Stressâ€“strain behavior of block-copolymers and their nanocomposites filled with uniform or Janus nanoparticles under shear: a molecular dynamics simulation. Physical Chemistry Chemical Physics, 2016, 18, 27232-27244.	2.8	16
20	Self-Assembly of Block Copolymer Chains To Promote the Dispersion of Nanoparticles in Polymer Nanocomposites. Journal of Physical Chemistry B, 2017, 121, 9311-9318.	2.6	16
21	Effects of chemically heterogeneous nanoparticles on polymer dynamics: insights from molecular dynamics simulations. Soft Matter, 2018, 14, 1219-1226.	2.7	16
22	Tailoring the Static and Dynamic Mechanical Properties of Tri-Block Copolymers through Molecular Dynamics Simulation. Polymers, 2016, 8, 335.	4.5	15
23	Influence of Morphology on the Mechanical Properties of Polymer Nanocomposites Filled with Uniform or Patchy Nanoparticles. Langmuir, 2016, 32, 8473-8483.	3.5	15
24	Tuning the Mechanical Properties of Polymer Nanocomposites Filled with Grafted Nanoparticles by Varying the Grafted Chain Length and Flexibility. Polymers, 2016, 8, 270.	4.5	13
25	Molecular Dynamics Simulation Study of Polymer Nanocomposites with Controllable Dispersion of Spherical Nanoparticles. Journal of Physical Chemistry B, 2017, 121, 10146-10156.	2.6	11
26	Flexible Carbon Nanofibrous Membranes with Adjustable Hierarchical Porous Structure as Highâ€Capacity Anodes for Sodiumâ€Ion Batteries. Energy Technology, 2021, 9, 2100049.	3.8	11
27	Tuning the structure and mechanical property of polymer nanocomposites by employing anisotropic nanoparticles as netpoints. Physical Chemistry Chemical Physics, 2016, 18, 25090-25099.	2.8	5
28	A pomegranate-like porous carbon nanomaterial as selenium host for stable lithium-selenium batteries. Materials Letters, 2019, 244, 134-137.	2.6	5
29	Role of a nanoparticle network in polymer mechanical reinforcement: insights from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2021, 23, 21797-21807.	2.8	4