

# Zhuoyuan Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

260  
citations

1040056

9  
h-index

940533

16  
g-index

20  
all docs

20  
docs citations

20  
times ranked

208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainty Quantification Analysis on Silicon Electrodeposition Process Via Numerical Simulation Methods. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2022, 8, .	1.1	1
2	Control Co-Design of Lithium-Ion Batteries for Enhanced Fast-Charging and Cycle Life Performances. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2022, 19, .	2.1	1
3	A Lipid-Inspired Highly Adhesive Interface for Durable Superhydrophobicity in Wet Environments and Stable Jumping Droplet Condensation. <i>ACS Nano</i> , 2022, 16, 4251-4262.	14.6	21
4	Physics-informed machine learning model for battery state of health prognostics using partial charging segments. <i>Mechanical Systems and Signal Processing</i> , 2022, 172, 109002.	8.0	30
5	Electrical and Thermal Active Co-Management for Lithium-ion Batteries. , 2022, , .		2
6	Uncertainty Quantification Analysis on Mechanical Properties of the Structured Silicon Anode via Surrogate Models. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040508.	2.9	10
7	Numerical modeling on the delamination-induced capacity degradation of silicon anode. <i>Journal of Energy Storage</i> , 2021, 43, 103190.	8.1	6
8	Battery asset management with cycle life prognosis. <i>Reliability Engineering and System Safety</i> , 2021, 216, 107948.	8.9	15
9	A Gaussian Process-Based Crack Pattern Modeling Approach for Battery Anode Materials Design. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	2.1	15
10	Monolithic Heterogeneous Integration of 3D Radio Frequency LâˆC Elements by Selfâ€Rrolledâ€Up Membrane Nanotechnology. <i>Advanced Functional Materials</i> , 2020, 30, 2004034.	14.9	19
11	The Impact of Non-uniform Metal Scaffolds on the Performance of 3D Structured Silicon Anodes. <i>Journal of Energy Storage</i> , 2020, 30, 101502.	8.1	13
12	Surrogate Model Assisted Design of Silicon Anode Considering Lithiation Induced Stresses. , 2019, , .		2
13	Lithiation Induced Stress Concentration for 3D Metal Scaffold Structured Silicon Anodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2083-A2090.	2.9	15
14	Numerical study on mechanisms of soy protein as a functional modifier for polymer materials. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 085010.	2.0	4
15	Effective structure regulation of poly(vinylidene fluoride) via soy protein isolate: A morphological study. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46706.	2.6	3
16	Effect of physiochemical structure on energy absorption properties of plant fibers reinforced composites: Dielectric, thermal insulation, and sound absorption properties. <i>Composites Communications</i> , 2018, 10, 163-167.	6.3	33
17	Study of denaturation and compositionâ€dependent poly(ethylene oxide)â€soy protein interactions: Structures and dielectric polarization. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46561.	2.6	2
18	Modified dielectric properties of poly(vinylidene fluoride) via 2S fraction of soy protein. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46882.	2.6	1

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19	Enhancement of discharged energy density of poly(ethylene oxide) by soy protein isolate. Journal of Applied Polymer Science, 2017, 134, 45214.	2.6	3
20	Effects of resin inside fiber lumen on the mechanical properties of sisal fiber reinforced composites. Composites Science and Technology, 2015, 108, 32-40.	7.8	64