

# Yuwei Zhang

## List of Publications by Year in descending order

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12  
papers

278  
citations

1163117

8  
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1199594

12  
g-index

12  
all docs

12  
docs citations

12  
times ranked

376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of metallic lithium: from nano to bulk scales. <i>Acta Materialia</i> , 2020, 186, 215-222.	7.9	103
2	Effect of crystallite geometries on electrochemical performance of porous intercalation electrodes by multiscale operando investigation. <i>Nature Materials</i> , 2022, 21, 217-227.	27.5	35
3	Elastic and Plastic Characteristics of Sodium Metal. <i>ACS Applied Energy Materials</i> , 2020, 3, 1759-1767.	5.1	33
4	In-situ measurements of stress evolution in composite sulfur cathodes. <i>Energy Storage Materials</i> , 2019, 16, 491-497.	18.0	26
5	Chemo-mechanical degradation in $V_2O_5$ thin film cathodes of Li-ion batteries during electrochemical cycling. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23922-23930.	10.3	24
6	Bending good beats breaking bad: phase separation patterns in individual cathode particles upon lithiation and delithiation. <i>Materials Horizons</i> , 2020, 7, 3275-3290.	12.2	14
7	Cation reordering instead of phase transitions: Origins and implications of contrasting lithiation mechanisms in 1D $V_2O_5$ and 2D $V_2O_5$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
8	In-operando imaging of polysulfide catholytes for Li-S batteries and implications for kinetics and mechanical stability. <i>Journal of Power Sources</i> , 2019, 434, 226727.	7.8	10
9	Tunable photocatalytic activity of photochromic Fe-Mn-codoped $LiNbO_3$ nanocrystals. <i>Optical Materials Express</i> , 2015, 5, 2240.	3.0	8
10	Negative Thermal Expansion $HfV_2O_7$ Nanostructures for Alleviation of Thermal Stress in Nanocomposite Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44723-44732.	8.0	7
11	Threshold effect in the Mg-doping dependence of the photocatalytic ability of $LiNbO_3$ nanoparticles. <i>Journal of the American Ceramic Society</i> , 2017, 100, 739-745.	3.8	5
12	Study on the temperature dependence of the $OH^-$ absorption band in Hf-doped $LiNbO_3$ crystals. <i>Journal of Materials Science</i> , 2014, 49, 3775-3779.	3.7	2