

# Junyang Wang

## List of Publications by Year in descending order

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19  
papers

1,170  
citations

687363

13  
h-index

794594

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1504  
citing authors

#	ARTICLE	IF	CITATIONS
1	An In Situ Formed Surface Coating Layer Enabling $\text{LiCoO}_2$ with Stable 4.6 V High Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020, 10, 2001413.	19.5	201
2	The Thermal Stability of Lithium Solid Electrolytes with Metallic Lithium. <i>Joule</i> , 2020, 4, 812-821.	24.0	197
3	Chemomechanical interplay of layered cathode materials undergoing fast charging in lithium batteries. <i>Nano Energy</i> , 2018, 53, 753-762.	16.0	173
4	Homogeneous Interface Conductivity for Lithium Dendrite-Free Anode. <i>ACS Energy Letters</i> , 2018, 3, 2259-2266.	17.4	124
5	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4323-4327.	13.8	114
6	Hierarchical Defect Engineering for $\text{LiCoO}_2$ through Low-Solubility Trace Element Doping. <i>CheM</i> , 2020, 6, 2759-2769.	11.7	74
7	Realizing long-term cycling stability and superior rate performance of 4.5 V $\text{LiCoO}_2$ by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. <i>Journal of Power Sources</i> , 2020, 470, 228423.	7.8	57
8	Size effect on the growth and pulverization behavior of Si nanodomains in $\text{SiO}$ anode. <i>Nano Energy</i> , 2020, 78, 105101.	16.0	51
9	Raising the Intrinsic Safety of Layered Oxide Cathodes by Surface Re-lithiation with LLZTO Garnet-type Solid Electrolytes. <i>Advanced Materials</i> , 2022, 34, e2200655.	21.0	30
10	Enhancing cycle stability of Li metal anode by using polymer separators coated with Ti-containing solid electrolytes. <i>Rare Metals</i> , 2021, 40, 1357-1365.	7.1	27
11	Structural and chemical evolution in layered oxide cathodes of lithium-ion batteries revealed by synchrotron techniques. <i>National Science Review</i> , 2022, 9, nwab146.	9.5	27
12	Stacking Faults Hinder Lithium Insertion in $\text{Li}_2\text{RuO}_3$ . <i>Advanced Energy Materials</i> , 2020, 10, 2002631.	19.5	22
13	<i>In situ</i> synthesis of a nickel concentration gradient structure of Ni-rich $\text{Li}_{0.8}\text{Ni}_{0.15}\text{Al}_{0.05}\text{O}_2$ with promising superior electrochemical properties at high cut-off voltage. <i>Nanoscale</i> , 2020, 12, 11182-11191.	5.6	22
14	Reaction Mechanisms of Ta-Substituted Cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ with Solvents During Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38384-38393.	8.0	14
15	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie</i> , 2019, 131, 4367-4371.	2.0	13
16	Exploring reaction dynamics in lithium-sulfur batteries by time-resolved <i>operando</i> sulfur K-edge X-ray absorption spectroscopy. <i>Chemical Communications</i> , 2019, 55, 4993-4996.	4.1	9
17	Influence of carbon coating on the electrochemical performance of $\text{SiO}@C$ /graphite composite anode materials*. <i>Chinese Physics B</i> , 2019, 28, 068201.	1.4	6
18	Suppressing transition metal dissolution and deposition in lithium-ion batteries using oxide solid electrolyte coated polymer separator*. <i>Chinese Physics B</i> , 2020, 29, 088201.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Dynamic Control Strategy to Produce Riboflavin with Lignocellulose Hydrolysate in the Thermophile <i>Geobacillus thermoglucosidasius</i> . ACS Synthetic Biology, 2022, 11, 2163-2174.	3.8	3