

Shi-Yao Zheng

List of Publications by Year in descending order

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22
papers

1,138
citations

471371

17
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677027

22
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docs citations

23
times ranked

1306
citing authors

#	ARTICLE	IF	CITATIONS
1	Counterintuitive Structural Instability Aroused by Transition Metal Migration in Polyanionic Sodium Ion Host. <i>Advanced Energy Materials</i> , 2021, 11, 2003256.	10.2	35
2	Tailoring the redox-active transition metal content to enhance cycling stability in cation-disordered rock-salt oxides. <i>Energy Storage Materials</i> , 2021, 43, 275-283.	9.5	11
3	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. <i>Energy Storage Materials</i> , 2020, 32, 234-243.	9.5	42
4	Mn ⁴⁺ -Substituted Li-Rich Li _{1.2} Mn _{0.4} PO ₃ Mn _x Ti _{0.4} O ₂ Materials with High Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40347-40354.	4.0	16
5	Suppression of voltage-decay in Li ₂ MnO ₃ cathode via reconstruction of layered-spinel coexisting phases. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18687-18697.	5.2	10
6	Restraining the polarization increase of Ni-rich and low-Co cathodes upon cycling by Al-doping. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6893-6901.	5.2	100
7	Revealing the correlation between structural evolution and Li ⁺ diffusion kinetics of nickel-rich cathode materials in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8540-8547.	5.2	132
8	Identifying the anionic redox activity in cation-disordered Li _{1.25} Nb _{0.25} Fe _{0.50} O ₂ /C oxide cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5115-5127.	5.2	32
9	Surface Changes of LiNi _x Mn _y Co _{1-x-y} O ₂ in Li-Ion Batteries Using in Situ Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4024-4031.	1.5	29
10	Tuning Oxygen Redox Reaction through the Inductive Effect with Proton Insertion in Li-Rich Oxides. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7277-7284.	4.0	33
11	Elucidating and Mitigating the Degradation of Cationic/Anionic Redox Processes in Li _{1.2} Mn _{0.4} Ti _{0.4} O ₂ Cation-Disordered Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45674-45682.	4.0	31
12	Novel Ordered Rocksalt-Type Lithium-Rich Li ₂ Ru _{1-x} Ni _x O ₃ (0.3 ≤ x ≤ 0.5) Cathode Material with Tunable Anionic Redox Potential. <i>ACS Applied Energy Materials</i> , 2019, 2, 5933-5944.	2.5	22
13	Structure-Performance Relationship of Zn ²⁺ Substitution in P2-Na _{0.66} Ni _{0.33} Mn _{0.67} O ₂ with Different Ni/Mn Ratios for High-Energy Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 4914-4924.	2.5	39
14	Impact of Structural Transformation on Electrochemical Performances of Li-Rich Cathode Materials: The Case of Li ₂ RuO ₃ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 13491-13499.	1.5	29
15	Comprehensive Understanding of Reduction Mechanisms of Ethylene Sulfite in EC-Based Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5871-5880.	1.5	14
16	Correlation between long range and local structural changes in Ni-rich layered materials during charge and discharge process. <i>Journal of Power Sources</i> , 2019, 412, 336-343.	4.0	109
17	Novel 3.9 V Layered Na ₃ V ₃ (PO ₄) ₄ Cathode Material for Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 3603-3606.	2.5	23
18	Sodium storage behavior of Na _{0.66} Ni _{0.33} É—xZn _x Mn _{0.67} O ₂ (x = 0, 0.07 and 0.14) positive materials in diglyme-based electrolytes. <i>Journal of Power Sources</i> , 2018, 400, 317-324.	4.0	21

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19	Exploring Highly Reversible 1.5-Electron Reactions ($V^{3+}/V^{4+}/V^{5+}$) in $Na_3VCr(PO_4)_3$ Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 43632-43639.	4.0	134
20	Exploring the working mechanism of Li^{+} in O3-type $NaLi_{0.1}Ni_{0.35}Mn_{0.55}O_2$ cathode materials for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 9054-9062.	5.2	92
21	Insights into the Effects of Zinc Doping on Structural Phase Transition of P2-Type Sodium Nickel Manganese Oxide Cathodes for High-Energy Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 22227-22237.	4.0	177
22	Li^{+} Substituted $NaLi_{0.1}Ni_{0.35}Mn_{0.55}O_2$ As Promising Cathode Materials for Rechargeable Na-Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0