

Feng Wang

List of Publications by Year in descending order

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44
papers

4,178
citations

159585

30
h-index

254184

43
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46
all docs

46
docs citations

46
times ranked

5627
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Processing by Design of High-Nickel Cathode Materials. Batteries and Supercaps, 2022, 5, .	4.7	11
2	Synthesis and Processing by Design of High-Nickel Cathode Materials. Batteries and Supercaps, 2022, 5, .	4.7	3
3	Kinetic Limitations in Single-Crystal High-Nickel Cathodes. Angewandte Chemie - International Edition, 2021, 60, 17350-17355.	13.8	84
4	Kinetic Limitations in Single-Crystal High-Nickel Cathodes. Angewandte Chemie, 2021, 133, 17490-17495.	2.0	2
5	Imaging the Phase Transformation in Single Particles of the Lithium Titanate Anode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 111-118.	5.1	16
6	Conditioning the Surface and Bulk of High-Nickel Cathodes with a Nb Coating: An <i>In Situ</i> X-ray Study. Journal of Physical Chemistry Letters, 2021, 12, 7908-7913.	4.6	16
7	Kinetic Pathways Templated by Low-Temperature Intermediates during Solid-State Synthesis of Layered Oxides. Chemistry of Materials, 2020, 32, 9906-9913.	6.7	34
8	Ultrafast solid-liquid intercalation enabled by targeted microwave energy delivery. Science Advances, 2020, 6, .	10.3	12
9	The interplay between thermodynamics and kinetics in the solid-state synthesis of layered oxides. Nature Materials, 2020, 19, 1088-1095.	27.5	129
10	Kinetic pathways of ionic transport in fast-charging lithium titanate. Science, 2020, 367, 1030-1034.	12.6	197
11	Ni/Li Disorder in Layered Transition Metal Oxide: Electrochemical Impact, Origin, and Control. Accounts of Chemical Research, 2019, 52, 2201-2209.	15.6	315
12	Multi-electron transfer enabled by topotactic reaction in magnetite. Nature Communications, 2019, 10, 1972.	12.8	28
13	Intrinsic Role of Cationic Substitution in Tuning Li/Ni Mixing in High-Ni Layered Oxides. Chemistry of Materials, 2019, 31, 2731-2740.	6.7	85
14	Localized concentration reversal of lithium during intercalation into nanoparticles. Science Advances, 2018, 4, eaao2608.	10.3	50
15	Revisiting Conversion Reaction Mechanisms in Lithium Batteries: Lithiation-Driven Topotactic Transformation in FeF ₂ . Journal of the American Chemical Society, 2018, 140, 17915-17922.	13.7	41
16	Cationic Ordering Coupled to Reconstruction of Basic Building Units during Synthesis of High-Ni Layered Oxides. Journal of the American Chemical Society, 2018, 140, 12484-12492.	13.7	113
17	Synthesis and Electrochemical and Structural Investigations of Oxidatively Stable Li ₂ MoO ₃ and <i>x</i> Li ₂ MoO ₃ ·(1 - <i>x</i>)Tj ETQq1 1 0.784314.rgBT /Overlock 10	13.7	41
18	Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by <i>In Situ</i> X-ray Absorption Fingerprints. Journal of the American Chemical Society, 2017, 139, 16591-16603.	13.7	57

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19	Synthetic Control of Kinetic Reaction Pathway and Cationic Ordering in High-Ni Layered Oxide Cathodes. <i>Advanced Materials</i> , 2017, 29, 1606715.	21.0	127
20	In Situ Tracking Kinetic Pathways of Li _x /Na _x Substitution during Ion-Exchange Synthesis of Li _x Na _{1.5-x} VOPO ₄ F _{0.5} . <i>Journal of the American Chemical Society</i> , 2017, 139, 12504-12516.	13.7	28
21	2D Cross Sectional Analysis and Associated Electrochemistry of Composite Electrodes Containing Dispersed Agglomerates of Nanocrystalline Magnetite, Fe ₃ O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13457-13466.	8.0	43
22	Ambient synthesis, characterization, and electrochemical activity of LiFePO ₄ nanomaterials derived from iron phosphate intermediates. <i>Nano Research</i> , 2015, 8, 2573-2594.	10.4	10
23	Solvothermal Synthesis of LiMn _x Fe _x PO ₄ Cathode Materials: A Study of Reaction Mechanisms by Time-Resolved in Situ Synchrotron X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2266-2276.	3.1	29
24	Structure Tracking Aided Design and Synthesis of Li ₃ V ₂ (PO ₄) ₃ Nanocrystals as High-Power Cathodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 5712-5718.	6.7	50
25	Visualization of electrochemically driven solid-state phase transformations using operando hard X-ray spectro-imaging. <i>Nature Communications</i> , 2015, 6, 6883.	12.8	80
26	Ternary metal fluorides as high-energy cathodes with low cycling hysteresis. <i>Nature Communications</i> , 2015, 6, 6668.	12.8	138
27	Eliminating Voltage Decay of Lithium-Rich Li _{1.14} Mn _{0.54} Ni _{0.14} Co _{0.14} O ₂ Cathodes by Controlling the Electrochemical Process. <i>Chemistry - A European Journal</i> , 2015, 21, 7503-7510.	3.3	36
28	Structure Stabilization by Mixed Anions in Oxyfluoride Cathodes for High-Energy Lithium Batteries. <i>ACS Nano</i> , 2015, 9, 10076-10084.	14.6	54
29	Interface Limited Lithium Transport in Solid-State Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 298-303.	4.6	148
30	Sodiation via Heterogeneous Disproportionation in FeF ₂ Electrodes for Sodium-Ion Batteries. <i>ACS Nano</i> , 2014, 8, 7251-7259.	14.6	89
31	High-Capacity, Aliovalently Doped Olivine LiMn _{1-x/2} V _{x-j} PO ₄ Cathodes without Carbon Coating. <i>Chemistry of Materials</i> , 2014, 26, 3018-3026.	6.7	37
32	Structures of Delithiated and Degraded LiFeBO ₃ , and Their Distinct Changes upon Electrochemical Cycling. <i>Inorganic Chemistry</i> , 2014, 53, 6585-6595.	4.0	26
33	Electrochemical Reaction of Lithium with Nanostructured Silicon Anodes: A Study by In Situ Synchrotron X-Ray Diffraction and Electron Energy Loss Spectroscopy. <i>Advanced Energy Materials</i> , 2013, 3, 1324-1331.	19.5	82
34	Excess lithium storage and charge compensation in nanoscale Li _{4+x} Ti ₅ O ₁₂ . <i>Nanotechnology</i> , 2013, 24, 424006.	2.6	37
35	Engineering nano-composite Li ₄ Ti ₅ O ₁₂ anodes via scanning electron-probe fabrication. <i>Nano Energy</i> , 2013, 2, 343-350.	16.0	40
36	Structure, defects and thermal stability of delithiated olivine phosphates. <i>Journal of Materials Chemistry</i> , 2012, 22, 20482.	6.7	18

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37	A 3D porous architecture of Si/graphene nanocomposite as high-performance anode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 7724.	6.7	193
38	Tracking lithium transport and electrochemical reactions in nanoparticles. <i>Nature Communications</i> , 2012, 3, 1201.	12.8	254
39	Degradation and (de)lithiation processes in the high capacity battery material LiFeBO ₃ . <i>Journal of Materials Chemistry</i> , 2012, 22, 8799.	6.7	53
40	Chemical Distribution and Bonding of Lithium in Intercalated Graphite: Identification with Optimized Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2011, 5, 1190-1197.	14.6	203
41	Conversion Reaction Mechanisms in Lithium Ion Batteries: Study of the Binary Metal Fluoride Electrodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 18828-18836.	13.7	492
42	Graphene modified LiFePO ₄ cathode materials for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 3353.	6.7	469
43	LiFe _x Mn _{1-x} PO ₄ : A cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 3659-3663.	7.8	117
44	What is the Role of Nb in Nickel-Rich Layered Oxide Cathodes for Lithium-Ion Batteries?. <i>ACS Energy Letters</i> , 0, , 1377-1382.	17.4	107