Tianxing Kang

List of Publications by Year in descending order

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34	877	430874	477307
papers	citations	18 h-index	29 g-index

34	34	34	764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Nonflammable and Thermally Stable Polyethylene/Glass Fiberâ^'Magnesium Hydroxide/Polyethylene Composite Separator with High Mechanical Strength and Electrolyte Retention to Enhance the Performance of Lithiumâ€Ion Batteries. Energy Technology, 2022, 10, .	3.8	7
2	Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics. ACS Nano, 2022, 16, 4152-4161.	14.6	47
3	Novel metastable Bi:Co and Bi:Fe alloys nanodots@carbon as anodes for high rate K-ion batteries. Nano Research, 2022, 15, 7220-7226.	10.4	14
4	1,4-Phenylene diisocyanate (PPDI)-containing low H2O/HF and multi-functional electrolyte for LiNi0Â·6Co0Â·2Mn0Â·2O2/graphite batteries with enhanced performances. Journal of Power Sources, 2021, 483, 229172.	7.8	18
5	Armoring SiO_x with a conformal LiF layer to boost lithium storage. Journal of Materials Chemistry A, 2021, 9, 7807-7816.	10.3	22
6	3D Ag@C Cloth for Stable Anode Free Sodium Metal Batteries. Small Methods, 2021, 5, e2001050.	8.6	51
7	Mechanisms of sodiation in anatase TiO₂ in terms of equilibrium thermodynamics and kinetics. Nanoscale Advances, 2021, 3, 4702-4713.	4.6	2
8	3,3â€Diethylene Diâ€Sulfite (DES) as a Highâ€Voltage Electrolyte Additive for 4.5â€…V LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂/Graphite Batteries with Enhanced Performances. ChemElectroChem, 2021, 8, 745-754.	3.4	14
9	Nonflammable and thermally stable glass fiber/polyacrylate (GFP) separator for lithium-ion batteries with enhanced safety and lifespan. Journal of Power Sources, 2021, 496, 229862.	7.8	19
10	Aqueous MnV₂O₆â€Zn Battery with High Operating Voltage and Energy Density. Small, 2021, 17, e2008182.	10.0	24
11	A Caâ€Ion Electrochromic Battery via a Waterâ€inâ€Salt Electrolyte. Advanced Functional Materials, 2021, 31, 2104639.	14.9	53
12	Isocyanoethyl Methacrylate (IMA) as a Bifunctional Electrolyte Additive for LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂/Graphite Batteries with Enhanced Performance. ChemElectroChem, 2021, 8, 3716-3725.	3.4	10
13	Nonflammable functional electrolytes with all-fluorinated solvents matching rechargeable high-voltage Li-metal batteries with Ni-rich ternary cathode. Journal of Power Sources, 2021, 505, 230055.	7.8	37
14	Performance Degradation of Lithiumâ€Ion Batteries with LiNi 0.33 Co 0.33 Mn 0.33 O 2 Cathodes during Longâ€Term, Highâ€Temperature Storage: Behaviors and Mechanism. ChemElectroChem, 2021, 8, 403-410.	3.4	2
15	Mathematical Models for the Performance Degradation of Lithium-Ion Batteries with Different Status of Charge (SOC) in Long-Term High Temperature Storage. Journal of the Electrochemical Society, 2021, 168, 120554.	2.9	0
16	Positiveâ€Temperatureâ€Coefficient Graphite Anode as a Thermal Runaway Firewall to Improve the Safety of LiCoO₂/Graphite Batteries under Abusive Conditions. Energy Technology, 2020, 8, 1901037.	3.8	11
17	Porous BN Nanofibers Enable Longâ€Cycling Life Sodium Metal Batteries. Small, 2020, 16, e2002671.	10.0	11
18	Sulfur-containing C2H2O8S2 molecules as an overall-functional electrolyte additive for high-voltage LiNi0.5Co0.2Mn0.3O2/graphite batteries with enhanced performance. Journal of Power Sources, 2020, 470, 228462.	7.8	34

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19	A pore-controllable polyamine (PAI) layer-coated polyolefin (PE) separator for pouch lithium-ion batteries with enhanced safety. Journal of Solid State Electrochemistry, 2020, 24, 843-853.	2.5	13
20	A Four-Layers Hamburger-Structure PVDF-HFP/Al₂O₃/PE/PVDF-HFP Composite Separator for Pouch Lithium-Ion Batteries with Enhanced Safety and Reliability. Journal of the Electrochemical Society, 2020, 167, 090507.	2.9	10
21	Hexamethylene diisocyanate (HDI)-functionalized electrolyte matching LiNi0Â·6Co0Â·2Mn0Â·2O2/graphite batteries with enhanced performances. Electrochimica Acta, 2020, 352, 136456.	5.2	19
22	2-Thiophene sulfonamide (2-TS)-contained multi-functional electrolyte matching high-voltage LiNi0.8Mn0.1Co0.1O2/graphite batteries with enhanced performances. Electrochimica Acta, 2020, 352, 136492.	5.2	18
23	Three-Dimensional Rigidity-Reinforced SiO_x Anodes with Stabilized Performance Using an Aqueous Multicomponent Binder Technology. ACS Applied Materials & Interfaces, 2019, 11, 26038-26046.	8.0	34
24	1-ethyl-3-methylimidazolium tetrafluoroborate (EMI-BF4) as an ionic liquid-type electrolyte additive to enhance the low-temperature performance of LiNi0.5Co0.2Mn0.3O2/graphite batteries. Electrochimica Acta, 2019, 317, 146-154.	5.2	46
25	Lithium difluorophosphate as a multi-functional electrolyte additive for 4.4 V LiNi0.5Co0.2Mn0.3O2/graphite lithium ion batteries. Journal of Electroanalytical Chemistry, 2019, 846, 113141.	3.8	54
26	(Phenylsulfonyl)acetonitrile as a High-Voltage Electrolyte Additive to Form a Sulfide Solid Electrolyte Interface Film to Improve the Performance of Lithium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 12161-12168.	3.1	27
27	Lithium bisoxalatodifluorophosphate (LiBODFP) as a multifunctional electrolyte additive for 5ÂV LiNi_{0.5}Mn_{1.5}O₄-based lithium-ion batteries with enhanced electrochemical performance. Journal of Materials Chemistry A, 2019, 7, 8292-8301.	10.3	82
28	Analysis on the constant-current overcharge electrode process and self-protection mechanism of LiCoO2/graphite batteries. Journal of Solid State Electrochemistry, 2019, 23, 407-417.	2.5	5
29	Preparation of Flexible Selfâ€Supporting 3D SiO x â€Based Membrane Anodes with Stabilized Electrochemical Performances for Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1800635.	3.8	8
30	2,3,4,5,6-Pentafluorophenyl Methanesulfonate as a Versatile Electrolyte Additive Matches LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂/Graphite Batteries Working in a Wide-Temperature Range. ACS Applied Materials & Interfaces, 2018, 10, 31735-31744.	8.0	71
31	Self-supported PVdF/P(VC-VAc) blended polymer electrolytes for LiNi0.5Mn1.5O4/Li batteries. Journal of Membrane Science, 2017, 532, 30-37.	8.2	44
32	Al2O3/PVdF-HFP-CMC/PE separator prepared using aqueous slurry and post-hot-pressing method for polymer lithium-ion batteries with enhanced safety. Electrochimica Acta, 2016, 212, 416-425.	5.2	70
33	Waterâ€soluble polyacrylate copolymers as green binders of graphite anodes for highâ€energy density lithiumâ€ion pouch cells with enhanced electrochemical and safety performance. ChemElectroChem, 0, , .	3.4	0
34	Achieving the Interface Stability of LiMn ₂ O ₄ Cathode Using Aqueous Polyacrylic Acid/acrylate Copolymer and Nanoscale CaCO ₃ to Improve the Highâ€Temperature Cycling and Storage Performance of Lithiumâ€Ion Batteries. Energy Technology, 0, , 2200163.	3.8	0