

Tianxing Kang

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Lithium bisoxalatodifluorophosphate (LiBODFP) as a multifunctional electrolyte additive for 5V LiNi _{0.5} Mn _{1.5} O ₄ -based lithium-ion batteries with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8292-8301.	10.3	82
2	2,3,4,5,6-Pentafluorophenyl Methanesulfonate as a Versatile Electrolyte Additive Matches LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /Graphite Batteries Working in a Wide-Temperature Range. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31735-31744.	8.0	71
3	Al ₂ O ₃ /PVdF-HFP-CMC/PE separator prepared using aqueous slurry and post-hot-pressing method for polymer lithium-ion batteries with enhanced safety. <i>Electrochimica Acta</i> , 2016, 212, 416-425.	5.2	70
4	Lithium difluorophosphate as a multi-functional electrolyte additive for 4.4 V LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 846, 113141.	3.8	54
5	A Ca ²⁺ Ion Electrochromic Battery via a Water ⁺ Salt Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2104639.	14.9	53
6	3D Ag@C Cloth for Stable Anode Free Sodium Metal Batteries. <i>Small Methods</i> , 2021, 5, e2001050.	8.6	51
7	Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics. <i>ACS Nano</i> , 2022, 16, 4152-4161.	14.6	47
8	1-ethyl-3-methylimidazolium tetrafluoroborate (EMI-BF ₄) as an ionic liquid-type electrolyte additive to enhance the low-temperature performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite batteries. <i>Electrochimica Acta</i> , 2019, 317, 146-154.	5.2	46
9	Self-supported PVdF/P(VAc) blended polymer electrolytes for LiNi _{0.5} Mn _{1.5} O ₄ /Li batteries. <i>Journal of Membrane Science</i> , 2017, 532, 30-37.	8.2	44
10	Nonflammable functional electrolytes with all-fluorinated solvents matching rechargeable high-voltage Li-metal batteries with Ni-rich ternary cathode. <i>Journal of Power Sources</i> , 2021, 505, 230055.	7.8	37
11	Three-Dimensional Rigidity-Reinforced SiO _x Anodes with Stabilized Performance Using an Aqueous Multicomponent Binder Technology. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26038-26046.	8.0	34
12	Sulfur-containing C ₂ H ₂ O ₈ S ₂ molecules as an overall-functional electrolyte additive for high-voltage LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite batteries with enhanced performance. <i>Journal of Power Sources</i> , 2020, 470, 228462.	7.8	34
13	(Phenylsulfonyl)acetonitrile as a High-Voltage Electrolyte Additive to Form a Sulfide Solid Electrolyte Interface Film to Improve the Performance of Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12161-12168.	3.1	27
14	Aqueous MnV ₂ O ₆ Zn Battery with High Operating Voltage and Energy Density. <i>Small</i> , 2021, 17, e2008182.	10.0	24
15	Armoring SiO _x with a conformal LiF layer to boost lithium storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7807-7816.	10.3	22
16	Nonflammable and thermally stable glass fiber/polyacrylate (GFP) separator for lithium-ion batteries with enhanced safety and lifespan. <i>Journal of Power Sources</i> , 2021, 496, 229862.	7.8	19
17	Hexamethylene diisocyanate (HDI)-functionalized electrolyte matching LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ /graphite batteries with enhanced performances. <i>Electrochimica Acta</i> , 2020, 352, 136456.	5.2	19
18	1,4-Phenylene diisocyanate (PPDI)-containing low H ₂ O/HF and multi-functional electrolyte for LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ /graphite batteries with enhanced performances. <i>Journal of Power Sources</i> , 2021, 483, 229172.	7.8	18

#	ARTICLE	IF	CITATIONS
19	2-Thiophene sulfonamide (2-TS)-contained multi-functional electrolyte matching high-voltage LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ /graphite batteries with enhanced performances. <i>Electrochimica Acta</i> , 2020, 352, 136492.	5.2	18
20	3,3'-Diethylene Di-sulfite (DES) as a High-Voltage Electrolyte Additive for 4.5V LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /Graphite Batteries with Enhanced Performances. <i>ChemElectroChem</i> , 2021, 8, 745-754.	3.4	14
21	Novel metastable Bi:Co and Bi:Fe alloys nanodots@carbon as anodes for high rate K-ion batteries. <i>Nano Research</i> , 2022, 15, 7220-7226.	10.4	14
22	A pore-controllable polyamine (PAI) layer-coated polyolefin (PE) separator for pouch lithium-ion batteries with enhanced safety. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 843-853.	2.5	13
23	Positive-Temperature-Coefficient Graphite Anode as a Thermal Runaway Firewall to Improve the Safety of LiCoO ₂ /Graphite Batteries under Abusive Conditions. <i>Energy Technology</i> , 2020, 8, 1901037.	3.8	11
24	Porous BN Nanofibers Enable Long-Cycling Life Sodium Metal Batteries. <i>Small</i> , 2020, 16, e2002671.	10.0	11
25	A Four-Layers Hamburger-Structure PVDF-HFP/Al ₂ O ₃ /PE/PVDF-HFP Composite Separator for Pouch Lithium-Ion Batteries with Enhanced Safety and Reliability. <i>Journal of the Electrochemical Society</i> , 2020, 167, 090507.	2.9	10
26	Isocyanatoethyl Methacrylate (IMA) as a Bifunctional Electrolyte Additive for LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /Graphite Batteries with Enhanced Performance. <i>ChemElectroChem</i> , 2021, 8, 3716-3725.	3.4	10
27	Preparation of Flexible Self-Supporting 3D SiO _x -Based Membrane Anodes with Stabilized Electrochemical Performances for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800635.	3.8	8
28	A Nonflammable and Thermally Stable Polyethylene/Glass Fiber-Magnesium Hydroxide/Polyethylene Composite Separator with High Mechanical Strength and Electrolyte Retention to Enhance the Performance of Lithium-Ion Batteries. <i>Energy Technology</i> , 2022, 10, .	3.8	7
29	Analysis on the constant-current overcharge electrode process and self-protection mechanism of LiCoO ₂ /graphite batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 407-417.	2.5	5
30	Mechanisms of sodiation in anatase TiO ₂ in terms of equilibrium thermodynamics and kinetics. <i>Nanoscale Advances</i> , 2021, 3, 4702-4713.	4.6	2
31	Performance Degradation of Lithium-Ion Batteries with LiNi _{0.33} Co _{0.33} Mn _{0.33} O ₂ Cathodes during Long-Term, High-Temperature Storage: Behaviors and Mechanism. <i>ChemElectroChem</i> , 2021, 8, 403-410.	3.4	2
32	Water-soluble polyacrylate copolymers as green binders of graphite anodes for high-energy density lithium-ion pouch cells with enhanced electrochemical and safety performance. <i>ChemElectroChem</i> , 0, , .	3.4	0
33	Mathematical Models for the Performance Degradation of Lithium-Ion Batteries with Different Status of Charge (SOC) in Long-Term High Temperature Storage. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120554.	2.9	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 High-Temperature Cycling and Storage Performance of Lithium-Ion Batteries. <i>Energy Technology</i> , 0, , 2200163.	3.8	0