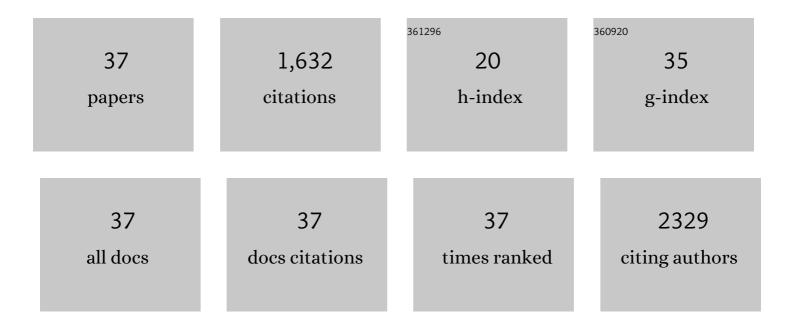
Kun Qian

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5629756/publications.pdf Version: 2024-02-01



Κιινι Οιανι

#	Article	IF	CITATIONS
1	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. Advanced Materials, 2019, 31, e1806620.	11.1	390
2	A Simple Method for the Complete Performance Recovery of Degraded Ni-rich LiNi _{0.70} Co _{0.15} Mn _{0.15} O ₂ Cathode via Surface Reconstruction. ACS Applied Materials & Interfaces, 2019, 11, 14076-14084.	4.0	89
3	A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. Journal of Materials Chemistry A, 2017, 5, 18888-18895.	5.2	85
4	Abuse tolerance behavior of layered oxide-based Li-ion battery during overcharge and over-discharge. RSC Advances, 2016, 6, 76897-76904.	1.7	80
5	Influence of over-discharge on the lifetime and performance of LiFePO ₄ /graphite batteries. RSC Advances, 2016, 6, 30474-30483.	1.7	71
6	State-of-health (SOH) evaluation on lithium-ion battery by simulating the voltage relaxation curves. Electrochimica Acta, 2019, 303, 183-191.	2.6	70
7	Deterioration mechanism of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ /graphite–SiO _x power batteries under high temperature and discharge cycling conditions. Journal of Materials Chemistry A. 2018. 6. 65-72.	5.2	66
8	Positive film-forming effect of fluoroethylene carbonate (FEC) on high-voltage cycling with three-electrode LiCoO2/Graphite pouch cell. Electrochimica Acta, 2018, 269, 378-387.	2.6	62
9	Deterioration of lithium iron phosphate/graphite power batteries under high-rate discharge cycling. Electrochimica Acta, 2015, 176, 270-279.	2.6	59
10	Interfacial engineering enables Bi@C-TiO microspheres as superpower and long life anode for lithium-ion batteries. Nano Energy, 2018, 51, 137-145.	8.2	55
11	Effects of state of charge on the degradation of LiFePO4/graphite batteries during accelerated storage test. Journal of Alloys and Compounds, 2015, 639, 406-414.	2.8	49
12	Understanding the cathode electrolyte interface formation in aqueous electrolyte by scanning electrochemical microscopy. Journal of Materials Chemistry A, 2019, 7, 12993-12996.	5.2	49
13	Increase and discretization of the energy barrier for individual LiNi _x Co _y Mn _y O ₂ (<i>xx</i> + 2 <i>y</i> =1) particles with the growth of a Li ₂ CO ₃ surface film. Journal of Materials Chemistry A, 2019. 7. 12723-12731.	5.2	43
14	Study on the reversible capacity loss of layered oxide cathode during low-temperature operation. Journal of Power Sources, 2017, 342, 24-30.	4.0	42
15	The different Li/Na ion storage mechanisms of nano Sb 2 O 3 anchored on graphene. Journal of Power Sources, 2018, 385, 114-121.	4.0	41
16	A Facile Surface Reconstruction Mechanism toward Better Electrochemical Performance of Li ₄ Ti ₅ O ₁₂ in Lithiumâ€ion Battery. Advanced Science, 2017, 4, 1700205.	5.6	37
17	Insights into the Nanostructure, Solvation, and Dynamics of Liquid Electrolytes through Smallâ€Angle Xâ€Ray Scattering. Advanced Energy Materials, 2021, 11, 2002821.	10.2	37
18	Evolution of Solid Electrolyte Interface on TiO ₂ Electrodes in an Aqueous Li-Ion Battery Studied Using Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2019, 123, 12797-12806.	1.5	30

Kun Qian

#	Article	IF	CITATIONS
19	Combination Effect of Bulk Structure Change and Surface Rearrangement on the Electrochemical Kinetics of LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ During Initial Charging Processes. ACS Applied Materials & Interfaces, 2018, 10, 41370-41379.	4.0	27
20	An Efficient Synthetic Method to Prepare High-Performance Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ for Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7403-7411.	2.5	25
21	Large-scale synthesis of lithium- and manganese-rich materials with uniform thin-film Al2O3 coating for stable cathode cycling. Science China Materials, 2020, 63, 1683-1692.	3.5	23
22	Impact of evolution of cathode electrolyte interface of Li(Ni0.8Co0.1Mn0.1)O2 on electrochemical performance during high voltage cycling process. Journal of Energy Chemistry, 2020, 47, 72-78.	7.1	20
23	Dataâ€Driven Fast Clustering of Secondâ€Life Lithiumâ€Ion Battery: Mechanism and Algorithm. Advanced Theory and Simulations, 2020, 3, 2000109.	1.3	20
24	Microscopic Understanding of the Ionic Networks of "Water-in-Salt―Electrolytes. Energy Material Advances, 2021, 2021, .	4.7	20
25	Investigation of Interfacial Changes on Grain Boundaries of Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ in the Initial Overcharge Process. Advanced Materials Interfaces, 2019, 6, 1801764.	1.9	17
26	Understanding Solvation Behavior of the Saturated Electrolytes with Small/Wide-Angle X-ray Scattering and Raman Spectroscopy. Energy & Fuels, 2021, 35, 19849-19855.	2.5	17
27	Decoupling the degradation factors of Ni-rich NMC/Li metal batteries using concentrated electrolytes. Energy Storage Materials, 2021, 41, 222-229.	9.5	16
28	Investigations on the Surface Degradation of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ after Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 7378-7385.	3.2	15
29	In-situ polymerized lithium polyacrylate (PAALi) as dual-functional lithium source for high-performance layered oxide cathodes. Electrochimica Acta, 2017, 249, 43-51.	2.6	14
30	A gradient screening approach for retired lithium-ion batteries based on X-ray computed tomography images. RSC Advances, 2020, 10, 19117-19123.	1.7	14
31	Influence of charge rate on the cycling degradation of LiFePO4/mesocarbon microbead batteries under low temperature. Ionics, 2017, 23, 1967-1978.	1.2	12
32	Efficient Construction of a C60 Interlayer for Mechanically Robust, Dendrite-free, and Ultrastable Solid-State Batteries. IScience, 2020, 23, 101636.	1.9	11
33	Understanding fluorine-free electrolytes via small-angle X-ray scattering. Journal of Energy Chemistry, 2022, 70, 340-346.	7.1	10
34	Heterogeneous Degradation in Thick Nickelâ€Rich Cathodes During Highâ€Temperature Storage and Mitigation of Thermal Instability by Regulating Cationic Disordering. Small, 2021, 17, e2102055.	5.2	8
35	A visible to near-infrared nanocrystalline organic photodetector with ultrafast photoresponse. Journal of Materials Chemistry C, 2022, 10, 9391-9400.	2.7	8
36	Revealing the Nanostructures of Liquid Electrolytes By X-Ray Scattering. ECS Meeting Abstracts, 2021, MA2021-01, 464-464.	0.0	0

	Kun Qi	Kun Qian		
#	Article	IF	CITATIONS	
37	Heterogeneous Degradation in Thick Nickelâ€Rich Cathodes During Highâ€Temperature Storage and Mitigation of Thermal Instability by Regulating Cationic Disordering (Small 34/2021). Small, 2021, 17, 2170177.	5.2	о	