Shuai Yuan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/822106/publications.pdf

Version: 2024-02-01

218677 233421 2,147 45 48 26 citations h-index g-index papers 48 48 48 2314 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Challenges and development of composite solid-state electrolytes for high-performance lithium ion batteries. Journal of Power Sources, 2019, 441, 227175.	7.8	168
2	lonic liquids for high performance lithium metal batteries. Journal of Energy Chemistry, 2021, 59, 320-333.	12.9	155
3	Layer-by-Layer Deposition of Organic–Inorganic Hybrid Multilayer on Microporous Polyethylene Separator to Enhance the Electrochemical Performance of Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2015, 7, 20678-20686.	8.0	131
4	Self-Assembly of PEI/SiO ₂ on Polyethylene Separators for Li-Ion Batteries with Enhanced Rate Capability. ACS Applied Materials & Interfaces, 2015, 7, 3314-3322.	8.0	130
5	Excellent rate capability and cycle life of Li metal batteries with ZrO2/POSS multilayer-assembled PE separators. Nano Energy, 2016, 28, 1-11.	16.0	125
6	Perovskite Quantum Dots Encapsulated in a Mesoporous Metal–Organic Framework as Synergistic Photocathode Materials. Journal of the American Chemical Society, 2021, 143, 14253-14260.	13.7	118
7	Preparation, characterization and electrical properties of fluorine-doped tin dioxide nanocrystals. Journal of Colloid and Interface Science, 2010, 346, 12-16.	9.4	109
8	Polyethylene separator activated by hybrid coating improving Li+ ion transference number and ionic conductivity for Li-metal battery. Journal of Power Sources, 2017, 342, 816-824.	7.8	89
9	Hydrothermal synthesis and humidity sensing properties of size-controlled Zirconium Oxide (ZrO2) nanorods. Journal of Colloid and Interface Science, 2013, 396, 9-15.	9.4	67
10	Gel Polymer Electrolyte with High Li ⁺ Transference Number Enhancing the Cycling Stability of Lithium Anodes. ACS Applied Materials & Stability of Lithium Account Accoun	8.0	64
11	In Situ Synthesis of Tungsten-Doped SnO ₂ and Graphene Nanocomposites for High-Performance Anode Materials of Lithium-Ion Batteries. ACS Applied Materials & Diterfaces, 2017, 9, 17163-17171.	8.0	58
12	Enhanced thermal stability and lithium ion conductivity of polyethylene separator by coating colloidal SiO2 nanoparticles with porous shell. Journal of Colloid and Interface Science, 2019, 554, 29-38.	9.4	57
13	Polyethylene separators modified by ultrathin hybrid films enhancing lithium ion transport performance and Li-metal anode stability. Electrochimica Acta, 2018, 259, 386-394.	5.2	56
14	Multifunctional separators for high-performance lithium ion batteries. Journal of Power Sources, 2021, 499, 229973.	7.8	51
15	A novel polyhedral oligomeric silsesquioxane based ionic liquids (POSS-ILs) polymer electrolytes for lithium ion batteries. Solid State Ionics, 2018, 319, 247-255.	2.7	48
16	Surface activated polyethylene separator promoting Li+ ion transport in gel polymer electrolytes and cycling stability of Li-metal anode. Chemical Engineering Journal, 2019, 368, 321-330.	12.7	48
17	Polymeric polyhedral oligomeric silsesquioxane ionic liquids based solid polymer electrolytes for lithium ion batteries. Journal of Power Sources, 2019, 414, 31-40.	7.8	47
18	Enhancement of power conversion efficiency of dye sensitized solar cells by modifying mesoporous TiO2 photoanode with Al-doped TiO2 layer. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 319-320, 62-69.	3.9	45

#	Article	IF	CITATIONS
19	High Li ⁺ lonic Flux Separator Enhancing Cycling Stability of Lithium Metal Anode. ACS Sustainable Chemistry and Engineering, 2018, 6, 2961-2968.	6.7	45
20	Water-Based Organic–Inorganic Hybrid Coating for a High-Performance Separator. ACS Sustainable Chemistry and Engineering, 2016, 4, 3794-3802.	6.7	43
21	Redox-Active Covalent Organic Frameworks with Nickel–Bis(dithiolene) Units as Guiding Layers for High-Performance Lithium Metal Batteries. Journal of the American Chemical Society, 2022, 144, 8267-8277.	13.7	42
22	Binary Network of Conductive Elastic Polymer Constraining Nanosilicon for a High-Performance Lithium-Ion Battery. ACS Nano, 2021, 15, 14570-14579.	14.6	39
23	A novel room temperature POSS ionic liquid-based solid polymer electrolyte. Journal of Materials Science, 2018, 53, 8420-8435.	3.7	38
24	Construction of silica-oxygen-borate hybrid networks on Al2O3-coated polyethylene separators realizing multifunction for high-performance lithium ion batteries. Journal of Power Sources, 2020, 472, 228445.	7.8	36
25	Highly Transparent, Robust Hydrophobic, and Amphiphilic Organic–Inorganic Hybrid Coatings for Antifogging and Antibacterial Applications. ACS Applied Materials & Samp; Interfaces, 2021, 13, 6615-6630.	8.0	35
26	Nature-Derived Cellulose-Based Composite Separator for Sodium-Ion Batteries. Frontiers in Chemistry, 2020, 8, 153.	3.6	30
27	Graphene anchored with ZrO ₂ nanoparticles as anodes of lithium ion batteries with enhanced electrochemical performance. RSC Advances, 2014, 4, 8472-8480.	3.6	28
28	Ultraviolet-cured polyethylene oxide-based composite electrolyte enabling stable cycling of lithium battery at low temperature. Journal of Colloid and Interface Science, 2021, 596, 257-266.	9.4	25
29	Molecular-scale interface engineering of metal nanoparticles for plasmon-enhanced dye sensitized solar cells. Dalton Transactions, 2013, 42, 5330.	3.3	23
30	Dualâ€Scale Al ₂ O ₃ Particles Coating for Highâ€Performance Separator and Lithium Metal Anode. Energy Technology, 2020, 8, 1901429.	3.8	19
31	Highly-ordered microstructure and well performance of LiNi0.6Mn0.2Co0.2O2 cathode material via the continuous microfluidic synthesis. Chemical Engineering Journal, 2020, 394, 124846.	12.7	19
32	A simple method to enhance the lifetime of Ni-rich cathode by using low-temperature dehydratable molecular sieve as water scavenger. Journal of Power Sources, 2019, 435, 226773.	7.8	16
33	Thermally Robust Zirconia Nanorod/Polyimide Hybrid Films as a Highly Flexible Dielectric Material. ACS Applied Nano Materials, 2021, 4, 8217-8230.	5.0	14
34	Functional polyethylene separator with impurity entrapment and faster Li+ ions transfer for superior lithium-ion batteries. Journal of Colloid and Interface Science, 2022, 607, 742-751.	9.4	14
35	Cobalt(II)â€Hexaazatriphenylene Hexacarbonitrile Coordination Compounds Based Cathode Materials with High Capacity and Long Cycle Stability. Advanced Functional Materials, 2022, 32, .	14.9	14
36	High-Performance Dye-Sensitized Solar Cells Based on Colloid–Solution Deposition Planarized Fluorine-Doped Tin Oxide Substrates. ACS Applied Materials & 1, 11, 15697-15703.	8.0	13

#	Article	IF	CITATIONS
37	Evaporation and in-situ gelation induced porous hybrid film without template enhancing the performance of lithium ion battery separator. Journal of Colloid and Interface Science, 2021, 595, 142-150.	9.4	13
38	In situ constructed Ag/C conductive network enhancing the C-rate performance of Si based anode. Journal of Energy Storage, 2018, 17, 102-108.	8.1	11
39	Scalable Fabrication of Siliconâ€Graphite Microsphere by Mechanical Processing for Lithiumâ€lon Battery Anode with Large Capacity and High Cycling Stability. Batteries and Supercaps, 2022, 5, .	4.7	11
40	Conversion Chemistry of Cobalt Oxalate for Sodium Storage. ACS Applied Materials & Samp; Interfaces, 2018, 10, 40523-40530.	8.0	10
41	Highly efficient colloid–solution deposition planarization of Hastelloy substrate for IBAD-MgO film. Research on Chemical Intermediates, 2016, 42, 4751-4758.	2.7	8
42	Ionic Conductive Thermoplastic Polymer Welding Layer for Low Electrode/Solid Electrolyte Interface Resistance. ACS Applied Energy Materials, 2020, 3, 7011-7019.	5.1	8
43	A silver-functionalized metal–organic framework with effective antibacterial activity. New Journal of Chemistry, 2022, 46, 5922-5926.	2.8	7
44	Fence Constructed at a Semiconductor/Electrolyte Interface Improving the Electron Collection Efficiency of the Photoelectrode for a Dye-Sensitized Solar Cell. ACS Applied Materials & Samp; Interfaces, 2017, 9, 2396-2402.	8.0	4
45	Depositing Pt nanoparticles by pulse electrodeposition for DSSCs counter electrode with high electrocatalytic activity. Research on Chemical Intermediates, 2017, 43, 4881-4892.	2.7	4
46	One-pot prepared silicon-silver-polydopamine ternary composite anode materials with high specific capacity and cycling stability. Journal of Alloys and Compounds, 2019, 810, 151820.	5.5	4
47	Nanocoating inside porous PE separator enables enhanced ionic transport of GPE and stable cycling of Li-metal anode. Research on Chemical Intermediates, 2019, 45, 4959-4973.	2.7	4
48	PEDOT:PSS @Molecular Sieve as Dualâ€Functional Additive to Enhance Electrochemical Performance and Stability of Niâ€Rich NMC Lithiumâ€lon Batteries. Energy Technology, 2020, 8, 2000339.	3.8	4