# **Zhumabay Bakenov**

#### List of Publications by Citations

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183 4,147 34 57 h-index g-index citations papers 6.11 5,140 5.2 223 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
183	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2620-2640	20.1	439
182	Ternary sulfur/polyacrylonitrile/Mg0.6Ni0.4O composite cathodes for high performance lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 295-301	13	191
181	Rechargeable hybrid aqueous batteries. <i>Journal of Power Sources</i> , <b>2012</b> , 216, 222-226	8.9	167
180	Physical and electrochemical properties of LiMnPO4/C composite cathode prepared with different conductive carbons. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7445-7451	8.9	135
179	Electrochemical performance of nanocomposite LiMnPO4/C cathode materials for lithium batteries. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 75-78	5.1	125
178	One-step synthesis of branched sulfur/polypyrrole nanocomposite cathode for lithium rechargeable batteries. <i>Journal of Power Sources</i> , <b>2012</b> , 208, 1-8	8.9	111
177	High Performance Zn/LiFePO4 Aqueous Rechargeable Battery for Large Scale Applications. <i>Electrochimica Acta</i> , <b>2015</b> , 152, 505-511	6.7	83
176	Enhanced cycle performance of Li/S battery with the reduced graphene oxide/activated carbon functional interlayer. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 1276-1281	12	82
175	Electrochemical performance of nanostructured LiMxMn2\(\text{IO}\)004 (M=Co and Al) powders at high charge\(\text{Bischarge}\) is operations. Solid State Ionics, 2005, 176, 1027-1034	3.3	75
174	Electrochemical performance of lithium gel polymer battery with nanostructured sulfur/carbon composite cathode. <i>Solid State Ionics</i> , <b>2013</b> , 234, 40-45	3.3	74
173	Defect-Rich Multishelled Fe-Doped CoO Hollow Microspheres with Multiple Spatial Confinements to Facilitate Catalytic Conversion of Polysulfides for High-Performance Li-S Batteries. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 12763-12773	9.5	70
172	A mini-review on the development of Si-based thin film anodes for Li-ion batteries. <i>Materials Today Energy</i> , <b>2018</b> , 9, 49-66	7	70
171	Effect of nanosized Mg0.6Ni0.4O prepared by self-propagating high temperature synthesis on sulfur cathode performance in Li/S batteries. <i>Powder Technology</i> , <b>2013</b> , 235, 248-255	5.2	68
170	Preparation of carbon coated LiMnPO4 powders by a combination of spray pyrolysis with dry ball-milling followed by heat treatment. <i>Advanced Powder Technology</i> , <b>2010</b> , 21, 187-196	4.6	64
169	Poly(vinylidene fluoride-co-hexafluoropropylene)/poly(methylmethacrylate)/nanoclay composite gel polymer electrolyte for lithium/sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1111-1116	2.6	62
168	LiMg[sub x]Mn[sub 1☑]PO[sub 4]/C Cathodes for Lithium Batteries Prepared by a Combination of Spray Pyrolysis with Wet Ballmilling. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A430	3.9	62
167	Exceptionally highly stable cycling performance and facile oxygen-redox of manganese-based cathode materials for rechargeable sodium batteries. <i>Nano Energy</i> , <b>2019</b> , 59, 197-206	17.1	62

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166	Effect of Graphene on Sulfur/Polyacrylonitrile Nanocomposite Cathode in High Performance Lithium/Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1194-A1198	3.9	58
165	All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance Liß Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000613	15.6	56
164	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries. <i>Solid State Sciences</i> , <b>2017</b> , 66, 44-49	3.4	54
163	Synthesis of Hierarchical Porous Sulfur/Polypyrrole/Multiwalled Carbon Nanotube Composite Cathode for Lithium Batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 143, 49-55	6.7	54
162	In situ sol-gel synthesis of ultrafine ZnO nanocrystals anchored on graphene as anode material for lithium-ion batteries. <i>Ceramics International</i> , <b>2016</b> , 42, 12371-12377	5.1	54
161	High specific surface area bimodal porous carbon derived from biomass reed flowers for high performance lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 569, 22-33	9.3	51
160	Nickel Hexacyanoferrate Nanoparticles as a Low Cost Cathode Material for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 184, 58-63	6.7	46
159	Exploring 3D microstructural evolution in Li-Sulfur battery electrodes using in-situ X-ray tomography. <i>Scientific Reports</i> , <b>2016</b> , 6, 35291	4.9	45
158	A Free-Standing Sulfur/Nitrogen-Doped Carbon Nanotube Electrode for High-Performance Lithium/Sulfur Batteries. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 450	5	44
157	A Review of Piezoelectric PVDF Film by Electrospinning and Its Applications. Sensors, 2020, 20,	3.8	42
156	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8558-8567	13	41
155	Preparation of novel network nanostructured sulfur composite cathode with enhanced stable cycle performance. <i>Journal of Power Sources</i> , <b>2014</b> , 270, 326-331	8.9	40
154	Three-dimensional carbon fiber as current collector for lithium/sulfur batteries. <i>Ionics</i> , <b>2014</b> , 20, 803-80	82.7	39
153	Electrochemical performance of carbon-encapsulated Fe3O4 nanoparticles in lithium-ion batteries: morphology and particle size effects. <i>Electrochimica Acta</i> , <b>2016</b> , 216, 475-483	6.7	37
152	A novel lithium/sulfur battery based on sulfur/graphene nanosheet composite cathode and gel polymer electrolyte. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 137	5	37
151	Dual-network nanoporous NiFe2O4/NiO composites for high performance Li-ion battery anodes. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124207	14.7	35
150	Micro-Spherical Sulfur/Graphene Oxide Composite via Spray Drying for High Performance Lithium Sulfur Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	35
149	High-Voltage Oxygen-Redox-Based Cathode for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001111	21.8	34

148	A simple approach to synthesize nanosized sulfur/graphene oxide materials for high-performance lithium/sulfur batteries. <i>Ionics</i> , <b>2014</b> , 20, 1047-1050	2.7	34
147	High performance freestanding composite cathode for lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 217, 242-248	6.7	34
146	Synthesis of nitrogen-doped oxygen-deficient TiO2-x/reduced graphene oxide/sulfur microspheres via spray drying process for lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 326, 134968	6.7	29
145	Spray pyrolysis synthesis of nanostructured LiFexMn2⊠O4 cathode materials for lithium-ion batteries. <i>Powder Technology</i> , <b>2005</b> , 159, 55-62	5.2	29
144	Synthesis of carbon coated Fe3O4 grown on graphene as effective sulfur-host materials for advanced lithium/sulfur battery. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226901	8.9	28
143	Bimodal nanoporous NiO@NiBi network prepared by dealloying method for stable Li-ion storage. <i>Journal of Power Sources</i> , <b>2020</b> , 449, 227550	8.9	27
142	Synthesis and electrochemical investigation of highly dispersed ZnO nanoparticles as anode material for lithium-ion batteries. <i>Ionics</i> , <b>2016</b> , 22, 1387-1393	2.7	26
141	Nanoporous GeO2/Cu/Cu2O network synthesized by dealloying method for stable Li-ion storage. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 363-372	6.7	25
140	Silicon thin film on graphene coated nickel foam as an anode for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 800-806	6.7	25
139	Facile Synthesis of SiO@C Nanoparticles Anchored on MWNT as High-Performance Anode Materials for Li-ion Batteries. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 459	5	25
138	Ultra-fine zinc oxide nanocrystals decorated three-dimensional macroporous polypyrrole inverse opal as efficient sulfur hosts for lithium/sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 1220	15 <sup>1</sup> 4·7	24
137	P2-NaMnO by Co Incorporation: As a Cathode Material of High Capacity and Long Cycle Life for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Sodium-Ion Batteries</i> . <i>ACS Applied Materials &amp; Sodium-Ion Batteries</i> .	9.5	24
136	Corn stalk-derived activated carbon with a stacking sheet-like structure as sulfur cathode supporter for lithium/sulfur batteries. <i>Ionics</i> , <b>2016</b> , 22, 63-69	2.7	23
135	Flexible S/DPAN/KB Nanofiber Composite as Binder-Free Cathodes for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5396-A5402	3.9	23
134	Effect of graphene nanosheets on electrochemical performance of Li 4 Ti 5 O 12 in lithium-ion capacitors. <i>Ceramics International</i> , <b>2017</b> , 43, 6554-6562	5.1	22
133	Enhanced electrochemical performance of sulfur/polyacrylonitrile composite by carbon coating for lithium/sulfur batteries. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	22
132	Chemical Dealloying Synthesis of CuS Nanowire-on-Nanoplate Network as Anode Materials for Li-Ion Batteries. <i>Metals</i> , <b>2018</b> , 8, 252	2.3	22
131	Biomass Waste Inspired Highly Porous Carbon for High Performance Lithium/Sulfur Batteries.  Nanomaterials, 2017, 7,	5.4	22

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130	Effect of carbon-sulphur bond in a sulphur/dehydrogenated polyacrylonitrile/reduced graphene oxide composite cathode for lithium-sulphur batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 355, 140-146	8.9	21
129	Fabrication and Properties of Carbon-Encapsulated Cobalt Nanoparticles over NaCl by CVD. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 432	5	20
128	Sulfur-Infiltrated Three-Dimensionally Ordered Mesoporous Polypyrrole Cathode for High-Performance Lithium-Sulfur Battery. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1591-1598	4.3	19
127	Synthesis of hierarchical MoS2 microspheres composed of nanosheets assembled via facile hydrothermal method as anode material for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	19
126	Numerical study of integrated latent heat thermal energy storage devices using nanoparticle-enhanced phase change materials. <i>Solar Energy</i> , <b>2019</b> , 194, 724-741	6.8	19
125	High performance sulfur/nitrogen-doped graphene cathode for lithium/sulfur batteries. <i>Ionics</i> , <b>2015</b> , 21, 1925-1930	2.7	19
124	Porous carbon nanotubes microspheres decorated with strong catalyst cobalt nanoparticles as an effective sulfur host for lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 157268	5.7	18
123	N-Type Doped Silicon Thin Film on a Porous Cu Current Collector as the Negative Electrode for Li-Ion Batteries. <i>ChemistryOpen</i> , <b>2018</b> , 7, 92-96	2.3	18
122	Prussian blue analogs derived Fe-Ni-P@nitrogen-doped carbon composites as sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 595, 51-58	9.3	18
121	Examining the effect of nanosized Mg0.6Ni0.4O and Al2O3 additives on S/polyaniline cathodes for lithiumBulphur batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 780, 407-415	4.1	17
120	Battery performance of nanostructured lithium manganese oxide synthesized by ultrasonic spray pyrolysis at elevated temperature. <i>Journal of Solid State Electrochemistry</i> , <b>2007</b> , 12, 57-62	2.6	17
119	Flexible free-standing Na4Mn9O18/reduced graphene oxide composite film as a cathode for sodium rechargeable hybrid aqueous battery. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 647-654	6.7	17
118	3D Ordered Macroporous Carbon Encapsulated ZnO Nanoparticles as a High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2359-2365	4.3	16
117	Novel silicon nanowire film on copper foil as high performance anode for lithium-ion batteries. <i>Ionics</i> , <b>2018</b> , 24, 373-378	2.7	16
116	ENa0.96V2O5: A New Competitive Cathode Material for Sodium-Ion Batteries Synthesized by a Soft Chemistry Route. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5305-5314	9.6	15
115	Three-Dimensional Hierarchical Porous Structure of PPy/Porous-Graphene to Encapsulate Polysulfides for Lithium/Sulfur Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	15
114	NaMnO/Carbon Nanotube Composite as a High Electrochemical Performance Material for Aqueous Sodium-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 569	5	14
113	Three-Dimensionally Hierarchical Graphene Based Aerogel Encapsulated Sulfur as Cathode for Lithium/Sulfur Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	14

112	Development of a novel SiO 2 based composite anode material for Li-ion batteries. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 4542-4547	1.4	14
111	Carbon/Sulfur Composite Cathodes for Flexible Lithium/Sulfur Batteries: Status and Prospects. <i>Frontiers in Energy Research</i> , <b>2015</b> , 3,	3.8	14
110	Stability of Lithium Polymer Battery Based on Substituted Spinel Cathode and PEG-Borate Ester <b>B</b> C Plasticized Polymer Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1533	3.9	14
109	On using splitter plates and flow guide-vanes for battery module cooling. <i>Heat and Mass Transfer</i> , <b>2017</b> , 53, 1-10	2.2	13
108	Morphology and Dimension Variations of Copper Sulfide for High-Performance Electrode in Rechargeable Batteries: A Review. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11480-11499	6.1	13
107	Rational Construction of Sulfur-Deficient NiCo2S4\(\mathbb{I}\) Hollow Microspheres as an Effective Polysulfide Immobilizer toward High-Performance Lithium/Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1687-1695	6.1	13
106	Current state of high voltage olivine structured LiMPO4 cathode materials for energy storage applications: A review. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160774	5.7	13
105	Ultrathin clay-containing layer-by-layer separator coating enhances performance of lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 366, 137454	6.7	12
104	Synergistic effect of 3D current collector structure and Ni inactive matrix on the electrochemical performances of Sn-based anodes for lithium-ion batteries. <i>Materials Today Energy</i> , <b>2020</b> , 16, 100397	7	11
103	Polyacrylonitrile-Nanofiber-Based Gel Polymer Electrolyte for Novel Aqueous Sodium-Ion Battery Based on a NaMnD Cathode and Zn Metal Anode. <i>Polymers</i> , <b>2018</b> , 10,	4.5	11
102	CVD graphene growth on a surface of liquid gallium. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 4548-4554	1.4	11
101	Synthesis of spherical LiMnPO4/C composite microparticles. <i>Materials Research Bulletin</i> , <b>2011</b> , 46, 1311	-153114	11
100	A Nonflammable Lithium Polymer Battery with High Performance for Elevated Temperature Applications. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, A208		11
99	Three-dimensional carbon cloth-supported ZnO nanorod arrays as a binder-free anode for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	10
98	Synthesis of highly defective hollow double-shelled Co3O4N microspheres as sulfur host for high-performance lithium-sulfur batteries. <i>Materials Letters</i> , <b>2019</b> , 255, 126581	3.3	10
97	Flower-Like MoSe/MoO Composite with High Capacity and Long-Term Stability for Lithium-Ion Battery. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	10
96	The Electrochemical Performances of n-Type Extended Lattice Spaced Si Negative Electrodes for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 389	5	10
95	Three-dimensionally ordered macro/mesoporous TiO matrix to immobilize sulfur for high performance lithium/sulfur batteries. <i>Nanotechnology</i> , <b>2018</b> , 29, 415401	3.4	10

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94	Understanding the effect of p-, n-type dopants and vinyl carbonate electrolyte additive on electrochemical performance of Si thin film anodes for lithium-ion battery. <i>Electrochimica Acta</i> , <b>2020</b> , 330, 135179	6.7	10
93	Mechanistic Investigation of a Hybrid Zn/V O Rechargeable Battery with a Binary Li /Zn Aqueous Electrolyte. <i>ChemSusChem</i> , <b>2020</b> , 13, 724-731	8.3	10
92	Improving the cycling stability of three-dimensional nanoporous Ge anode by embedding Ag nanoparticles for high-performance lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 592, 103-115	9.3	10
91	Nickel embedded porous macrocellular carbon derived from popcorn as sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 74, 69-77	9.1	10
90	Recent advancements in solid electrolytes integrated into all-solid-state 2D and 3D lithium-ion microbatteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 15140-15178	13	10
89	Electrospun 3D Structured Carbon Current Collector for Li/S Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
88	Synthesis of a Flexible Freestanding Sulfur/Polyacrylonitrile/Graphene Oxide as the Cathode for Lithium/Sulfur Batteries. <i>Polymers</i> , <b>2018</b> , 10,	4.5	9
87	Hierarchical Rambutan-Like CNTs-Assembled Ntott@rGO Composite as Sulfur Immobilizer for High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4565-4570	4.3	9
86	Facile Synthesis of ZnO Nanoparticles on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode Material for Lithium-Ion Batteries. <i>Materials</i> , <b>2017</b> , 10,	3.5	9
85	Sodium-Based Batteries: In Search of the Best Compromise Between Sustainability and Maximization of Electric Performance. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	9
84	Cobalt-doped oxygen-deficient titanium dioxide coated by carbon layer as high-performance sulfur host for Li/S batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 861, 157969	5.7	9
83	Simple One-Pot Synthesis of Hexagonal ZnO Nanoplates as Anode Material for Lithium-Ion Batteries. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-6	3.2	9
82	Effect of VO43Bubstitution for PO43Bn Electrical Conductivity in the Nasicon Li3Sc2(PO4)3Compound. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 327-333	6.7	8
81	Hybrids of La2O3 nanoplates anchored in three-dimensional carbon nanotubes microspheres as efficient sulfur-hosts for highperformance lithium/sulfur batteries. <i>Materials Letters</i> , <b>2020</b> , 270, 127690	3.3	8
80	Effect of VO 4 3lbubstitution for PO 4 3lbn electrochemical properties of the Li 3 Fe 2 (PO 4) 3 cathode materials. <i>Electrochimica Acta</i> , <b>2016</b> , 219, 547-552	6.7	8
79	Nitrogen-doped carbon nanotubes coated with zinc oxide nanoparticles as sulfur encapsulator for high-performance lithium/sulfur batteries. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 1677-1685	3	8
78	LiMnPO4 Olivine as a Cathode for Lithium Batteries. <i>Open Materials Science Journal</i> , <b>2011</b> , 5, 222-227		8
77	Nitrogen-Deficient Graphitic Carbon Nitride/Carbon Nanotube as Polysulfide Barrier of High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4906-4912	4.3	8

76	Structural and Chemical Modifications Towards High-Performance of Triboelectric Nanogenerators. Nanoscale Research Letters, <b>2021</b> , 16, 122	5	8
75	ZnO Nanorods Grown Directly on Copper Foil Substrate as a Binder-Free Anode for High Performance Lithium-Ion Batteries. <i>International Journal of Electrochemical Science</i> , <b>2016</b> , 8439-8446	2.2	8
74	Novel Ni/Ni2P@C hollow heterostructure microsphere as efficient sulfur hosts for high-performance lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 871, 159576	5.7	8
73	Sn modified nanoporous Ge for improved lithium storage performance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 602, 563-572	9.3	8
72	Li1+xAlxTi2☑ (PO4)3, NASICON-type solid electrolyte fabrication with different methods. <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 97-100	1.4	7
71	MoS2 nanopowder as anode material for lithium-ion batteries produced by self-propagating high-temperature synthesis. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 4567-4571	1.4	7
70	Lithium AlPO4 composite polymer battery with nanostructured LiMn2O4 cathode. <i>Journal of Solid State Electrochemistry</i> , <b>2008</b> , 12, 295-302	2.6	7
69	Carbon nanotubes assembled on porous TiO matrix doped with CoO as sulfur host for lithium-sulfur batteries. <i>Nanotechnology</i> , <b>2021</b> , 32, 075403	3.4	7
68	Dual network porous Si/Al9FeSi3/Fe2O3 composite for high performance Li-ion battery anode. <i>Electrochimica Acta</i> , <b>2020</b> , 358, 136936	6.7	7
67	Enhancing purity and ionic conductivity of NASICON-typed Li1.3Al0.3Ti1.7(PO4)3 solid electrolyte. <i>Ceramics International</i> , <b>2021</b> , 47, 18188-18195	5.1	7
66	Synthesis of Multiwalled Carbon Nanotube Aqueous Suspension with Surfactant Sodium Dodecylbenzene Sulfonate for Lithium/Sulfur Rechargeable Batteries. <i>Electrochemistry</i> , <b>2016</b> , 84, 7-11	1.2	7
65	Gel polymer electrolytes for lithium-sulfur batteries. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 22882-2288	81.4	7
64	Hierarchical sandwiched Fe3O4@C/Graphene composite as anode material for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 847, 113240	4.1	6
63	High Mass-Loading of Sulfur-Based Cathode Composites and Polysulfides Stabilization for Rechargeable Lithium/Sulfur Batteries. <i>Frontiers in Energy Research</i> , <b>2015</b> , 3,	3.8	6
62	Building on a traditional chemical engineering curriculum using computational fluid dynamics. <i>Education for Chemical Engineers</i> , <b>2014</b> , 9, e85-e93	2.4	6
61	Electrodeposited Ni-Sn intermetallic alloy electrode for 3D sulfur battery. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 4491-4495	1.4	6
60	Photo and thermal crosslinked poly(vinyl alcohol)-based nanofiber membrane for flexible gel polymer electrolyte. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230896	8.9	6
59	Fabrication of UV-Crosslinked Flexible Solid Polymer Electrolyte with PDMS for Li-Ion Batteries. <i>Polymers</i> , <b>2020</b> , 13,	4.5	6

## (2011-2020)

58	Synthesis of microflower-like vacancy defective copper sulfide/reduced graphene oxide composites for highly efficient lithium-ion batteries. <i>Nanotechnology</i> , <b>2020</b> , 31, 095405	3.4	6	
57	NiCo2S4 nanoparticles embedded in nitrogen-doped carbon nanotubes networks as effective sulfur carriers for advanced LithiumBulfur batteries. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 316, 110924	5.3	6	
56	Physical Vapor Deposition of Cathode Materials for All Solid-State Li Ion Batteries: A Review. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	6	
55	A simple approach to synthesize novel sulfur/graphene oxide/multiwalled carbon nanotube composite cathode for high performance lithium/sulfur batteries. <i>Jonics</i> , <b>2016</b> , 22, 1819-1827	2.7	6	
54	A Novel Hierarchically Porous Polypyrrole Sphere Modified Separator for Lithium-Sulfur Batteries. <i>Polymers</i> , <b>2019</b> , 11,	4.5	5	
53	Design and preparation of thin film gel polymer electrolyte for 3D Li-ion battery. <i>Journal of Power Sources</i> , <b>2021</b> , 493, 229686	8.9	5	
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50	Electrochemical Performance of Lithium Polymer Battery Based on PC/Polymer Borate Ester Plasticizers. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A30		4	
49	Oxidized Nb2C MXene as catalysts for lithium-sulfur batteries: mitigating the shuttle phenomenon by facilitating catalytic conversion of lithium polysulfides. <i>Journal of Materials Science and Technology</i> , <b>2022</b> ,	9.1	4	
48	In-situ constructed accordion-like Nb2C/Nb2O5 heterostructure as efficient catalyzer towards high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230902	8.9	4	
47	Tetrapropylammonium Hydroxide as a Zinc Dendrite Growth Suppressor for Rechargeable Aqueous Battery. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	4	
46	Three-dimensional foam-type current collectors for rechargeable batteries: A short review. <i>Journal of Power Sources Advances</i> , <b>2021</b> , 10, 100065	3.3	4	
45	Dealloying-derived nanoporous deficient titanium oxide as high-performance bifunctional sulfur host-catalysis material in lithium-sulfur battery. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 84, 124-132	9.1	4	
44	A porous puckered V2O5 polymorph as new high performance cathode material for aqueous rechargeable zinc batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 61, 459-468	12	4	
43	Nitrogen-doped graphitized porous carbon with embedded NiFe alloy nanoparticles to enhance electrochemical performance for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160728	5.7	4	
42	LiNiN, a Promising Negative Electrode Material for Li-Ion Batteries with a Soft Structural Response. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13815-13821	5.1	3	
41	Preparation of LiNi0.5Mn1.5O4 Cathode Materials of Lithium-Ion Batteries by Drip Pyrolysis in Fluidized Bed Reactor Followed by Heat Treatment and Their Electrochemical Properties. <i>Journal of Chemical Engineering of Japan</i> , <b>2011</b> , 44, 179-186	0.8	3	

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39	Rational design of MOFs-derived Fe3O4@C interwoven with carbon nanotubes as sulfur host for advanced lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 877, 114608	4.1	3
38	3D Hierarchical Nanocrystalline CuS Cathode for Lithium Batteries. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
37	N-type doped amorphous Si thin film on a surface of rough current collector as anode for Li-ion batteries. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 22759-22763	1.4	3
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35	3D ordered macroporous amorphous Nb2O5 as anode material for high-performance sodium-ion batteries. <i>Applied Surface Science</i> , <b>2021</b> , 567, 150862	6.7	3
34	High Mass-Loading Sulfur-Composite Cathode for Lithium-Sulfur Batteries. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	2
33	Mulberry-like hollow rGO microspheres decorated with CoO nanoparticles as efficient polysulfides anchoring for Li-S batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 873, 114375	4.1	2
32	Nanoscale thermal transport and elastic properties of lithiated amorphous Si thin films. <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 88-92	1.4	2
31	Thiol-modified activated carbon material for sensor technology. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 4599-4602	1.4	2
30	Assessment of a Shallow Water Model using a Linear Turbulence Model for Obstruction-Induced Discontinuous Flows. <i>Eurasian Chemico-Technological Journal</i> , <b>2015</b> , 14, 155	0.8	2
29	Defective ZnOx@porous carbon nanofiber network inducing dendrite-free zinc plating as zinc metal anode for high-performance aqueous rechargeable Zn/Na4Mn9O18 battery based on hybrid electrolyte. <i>Journal of Power Sources</i> , <b>2022</b> , 518, 230761	8.9	2
28	Three-Dimensionally Ordered Macroporous ZnO Framework as Dual-Functional Sulfur Host for High-Efficiency Lithium-Sulfur Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
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25	Synthesis and Characterization of Silicon Based Anode Materials. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 4502-4511	1.4	1
24	Synthesis of ZnO/Polypyrrole Nanoring Composite as High-Performance Anode Materials for Lithium Ion Batteries. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-8	3.2	1
23	All-Purpose Electrodes: All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance Liß Batteries (Adv. Funct. Mater. 19/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070123	15.6	1

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22	Suppression of zinc dendrite formation on anode of Zn/LiFePO4 aqueous rechargeable batteries using electrodeposition. <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 93-96	1.4	1
21	SYNTHESIS OF NANOSTRUCTURED LIM0.15Mn1.85O4 (M = Mn, Co, Al, AND Fe) PARTICLES BY SPRAY PYROLYSIS IN A FLUIDIZED BED REACTOR. <i>Chemical Engineering Communications</i> , <b>2008</b> , 195, 1292-1301	2.2	1
20	Effect of thickness and reaction media on properties of ZnO thin films by SILAR <i>Scientific Reports</i> , <b>2022</b> , 12, 851	4.9	1
19	Spray-Pyrolysis Preparation of Li4Ti5O12/Si Composites for Lithium-Ion Batteries. <i>Eurasian Chemico-Technological Journal</i> , <b>2019</b> , 69	0.8	1
18	Evaluating Sulfur-Composite Cathode Material with Lithiated Graphite Anode in Coin Cell and Pouch Cell Configuration. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	1
17	PAM-based hydrogel electrolyte for hybrid rechargeable aqueous (Zn and Li-ion) battery. <i>Materials Today: Proceedings</i> , <b>2021</b> , 49, 2491-2491	1.4	1
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15	Rational design of a cobalt sulfide nanoparticle-embedded flexible carbon nanofiber membrane electrocatalyst for advanced lithium-sulfur batteries. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	1
14	Engineering zwitterionic barrier by squaraine-based porous organic framework fiber for superior lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 397, 139276	6.7	1
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12	Revisiting the carbon mesopore contribution towards improved performance of ionic liquidBased EDLCs at sub-zero temperatures. <i>Ionics</i> ,1	2.7	О
11	NiCoS Nanocrystals on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode for Lithium-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2021</b> , 16, 105	5	O
10	Promoting polysulfides redox conversion by sulfur-deficient ZnS1½ hollow polyhedrons for lithium-sulfur batteries. <i>Materials and Design</i> , <b>2021</b> , 210, 110060	8.1	0
9	Application of Response Surface Methodology for Optimization of Nanosized Zinc Oxide Synthesis Conditions by Electrospinning Technique. <i>Nanomaterials</i> , <b>2022</b> , 12, 1733	5.4	O
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7	Synthesis and Electrochemical Performance of Polypyrrole-Coated Sulfur/Multi-Walled Carbon Nanotube Composite Cathode Materials for Lithium/Sulfur Batteries. <i>Materials Science Forum</i> , <b>2016</b> , 847, 33-38	0.4	
6	Prevention of Reduction in Nasicon-Type Solid Electrolyte By Thin Polymer Coating. <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-02, 12-12	O	
5	Thermal stability and reduction mechanism of LiNi0.8Co0.1Mn0.1O2 and LiNi0.5Co0.2Mn0.3O2 cathode materials studied by a Temperature Programmed Reduction. <i>Thermochimica Acta</i> , <b>2021</b> , 706, 179069	2.9	

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