Zhumabay Bakenov

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8512922/zhumabay-bakenov-publications-by-year.pdf
Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
183	Oxidized Nb2C MXene as catalysts for lithium-sulfur batteries: mitigating the shuttle phenomenon by facilitating catalytic conversion of lithium polysulfides. *Journal of Materials Science and Technology*, **2022**,	9.1	4
182	Effect of thickness and reaction media on properties of ZnO thin films by SILAR.. *Scientific Reports*, **2022**, 12, 851	4.9	1
181	Defect-rich porous tubular graphitic carbon nitride with strong adsorption towards lithium polysulfides for high-performance lithium-sulfur batteries. *Journal of Materials Science and Technology*, **2022**, 115, 140-147	9.1	0
180	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. *Journal of Power Sources*, **2022**, 518, 230761	8.9	2
179	Photo and thermal crosslinked poly(vinyl alcohol)-based nanofiber membrane for flexible gel polymer electrolyte. *Journal of Power Sources*, **2022**, 520, 230896	8.9	6
178	In-situ constructed accordion-like Nb2C/Nb2O5 heterostructure as efficient catalyzer towards high-performance lithium-sulfur batteries. *Journal of Power Sources*, **2022**, 520, 230902	8.9	4
177	Interface modification of NASICON-type Li-ion conducting ceramic electrolytes: a critical evaluation. *Materials Advances*, **2022**, 3, 3055-3069	3.3	2
176	Application of Response Surface Methodology for Optimization of Nanosized Zinc Oxide Synthesis Conditions by Electrospinning Technique. *Nanomaterials*, **2022**, 12, 1733	5.4	0
175	Prevention of Reduction in Nasicon-Type Solid Electrolyte By Thin Polymer Coating. *ECS Meeting Abstracts*, **2021**, MA2021-02, 12-12	0	
174	Thermal stability and reduction mechanism of LiNi0.8Co0.1Mn0.1O2 and LiNi0.5Co0.2Mn0.3O2 cathode materials studied by a Temperature Programmed Reduction. *Thermochimica Acta*, **2021**, 706, 179069	2.9	
173	Carbon nanotubes assembled on porous TiO matrix doped with CoO as sulfur host for lithium-sulfur batteries. *Nanotechnology*, **2021**, 32, 075403	3.4	7
172	NiCo2S4 nanoparticles embedded in nitrogen-doped carbon nanotubes networks as effective sulfur carriers for advanced Lithium–Sulfur batteries. *Microporous and Mesoporous Materials*, **2021**, 316, 110924	5.3	6
171	3D Hierarchical Nanocrystalline CuS Cathode for Lithium Batteries. *Materials*, **2021**, 14,	3.5	3
170	Cobalt-doped oxygen-deficient titanium dioxide coated by carbon layer as high-performance sulfur host for Li/S batteries. *Journal of Alloys and Compounds*, **2021**, 861, 157969	5.7	9
169	Physical Vapor Deposition of Cathode Materials for All Solid-State Li Ion Batteries: A Review. *Frontiers in Energy Research*, **2021**, 9,	3.8	6
168	Design and preparation of thin film gel polymer electrolyte for 3D Li-ion battery. *Journal of Power Sources*, **2021**, 493, 229686	8.9	5
167	Improving the cycling stability of three-dimensional nanoporous Ge anode by embedding Ag nanoparticles for high-performance lithium-ion battery. *Journal of Colloid and Interface Science*, **2021**, 592, 103-115	9.3	10

166	NiCoS Nanocrystals on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode for Lithium-Ion Batteries. *Nanoscale Research Letters*, **2021**, 16, 105	5	0
165	Structural and Chemical Modifications Towards High-Performance of Triboelectric Nanogenerators. *Nanoscale Research Letters*, **2021**, 16, 122	5	8
164	Enhancing purity and ionic conductivity of NASICON-typed Li1.3Al0.3Ti1.7(PO4)3 solid electrolyte. *Ceramics International*, **2021**, 47, 18188-18195	5.1	7
163	Ultrathin clay-containing layer-by-layer separator coating enhances performance of lithium-sulfur batteries. *Electrochimica Acta*, **2021**, 366, 137454	6.7	12
162	Porous carbon nanotubes microspheres decorated with strong catalyst cobalt nanoparticles as an effective sulfur host for lithium-sulfur battery. *Journal of Alloys and Compounds*, **2021**, 853, 157268	5.7	18
161	Nickel embedded porous macrocellular carbon derived from popcorn as sulfur host for high-performance lithium-sulfur batteries. *Journal of Materials Science and Technology*, **2021**, 74, 69-77	9.1	10
160	PAM-based hydrogel electrolyte for hybrid rechargeable aqueous (Zn and Li-ion) battery. *Materials Today: Proceedings*, **2021**, 49, 2491-2491	1.4	1
159	Recent advancements in solid electrolytes integrated into all-solid-state 2D and 3D lithium-ion microbatteries. *Journal of Materials Chemistry A*, **2021**, 9, 15140-15178	13	10
158	Rational Construction of Sulfur-Deficient NiCo2S4 Hollow Microspheres as an Effective Polysulfide Immobilizer toward High-Performance Lithium/Sulfur Batteries. *ACS Applied Energy Materials*, **2021**, 4, 1687-1695	6.1	13
157	Rational design of a cobalt sulfide nanoparticle-embedded flexible carbon nanofiber membrane electrocatalyst for advanced lithium-sulfur batteries. *Nanotechnology*, **2021**, 32,	3.4	1
156	Novel Ni/Ni2P@C hollow heterostructure microsphere as efficient sulfur hosts for high-performance lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2021**, 871, 159576	5.7	8
155	Prussian blue analogs derived Fe-Ni-P@nitrogen-doped carbon composites as sulfur host for high-performance lithium-sulfur batteries. *Journal of Colloid and Interface Science*, **2021**, 595, 51-58	9.3	18
154	Three-dimensional foam-type current collectors for rechargeable batteries: A short review. *Journal of Power Sources Advances*, **2021**, 10, 100065	3.3	4
153	Physical properties of carbon nanowalls synthesized by the ICP-PECVD method vs. the growth time. *Scientific Reports*, **2021**, 11, 19287	4.9	3
152	Dealloying-derived nanoporous deficient titanium oxide as high-performance bifunctional sulfur host-catalysis material in lithium-sulfur battery. *Journal of Materials Science and Technology*, **2021**, 84, 124-132	9.1	4
151	Engineering zwitterionic barrier by squaraine-based porous organic framework fiber for superior lithium-sulfur batteries. *Electrochimica Acta*, **2021**, 397, 139276	6.7	1
150	A porous puckered V2O5 polymorph as new high performance cathode material for aqueous rechargeable zinc batteries. *Journal of Energy Chemistry*, **2021**, 61, 459-468	12	4
149	Flower-like Ni3S2 hollow microspheres as superior sulfur hosts for lithium-sulfur batteries. *Microporous and Mesoporous Materials*, **2021**, 326, 111355	5.3	2

148	Nitrogen-doped graphitized porous carbon with embedded NiFe alloy nanoparticles to enhance electrochemical performance for lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2021**, 882, 160728	5.7	4
147	3D ordered macroporous amorphous Nb2O5 as anode material for high-performance sodium-ion batteries. *Applied Surface Science*, **2021**, 567, 150862	6.7	3
146	Sn modified nanoporous Ge for improved lithium storage performance. *Journal of Colloid and Interface Science*, **2021**, 602, 563-572	9.3	8
145	Promoting polysulfides redox conversion by sulfur-deficient ZnS1⊠ hollow polyhedrons for lithium-sulfur batteries. *Materials and Design*, **2021**, 210, 110060	8.1	0
144	Current state of high voltage olivine structured LiMPO4 cathode materials for energy storage applications: A review. *Journal of Alloys and Compounds*, **2021**, 882, 160774	5.7	13
143	Advanced Battery Materials Research at Nazarbayev University: Review. *Eurasian Chemico-Technological Journal*, **2021**, 23, 199	0.8	
142	High Mass-Loading Sulfur-Composite Cathode for Lithium-Sulfur Batteries. *Frontiers in Energy Research*, **2020**, 8,	3.8	2
141	High-Voltage Oxygen-Redox-Based Cathode for Rechargeable Sodium-Ion Batteries. *Advanced Energy Materials*, **2020**, 10, 2001111	21.8	34
140	All-Purpose Electrodes: All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance Li⊠ Batteries (Adv. Funct. Mater. 19/2020). *Advanced Functional Materials*, **2020**, 30, 2070123	15.6	1
139	Hybrids of La2O3 nanoplates anchored in three-dimensional carbon nanotubes microspheres as efficient sulfur-hosts for highperformance lithium/sulfur batteries. *Materials Letters*, **2020**, 270, 127690	3.3	8
138	All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance Li⊠ Batteries. *Advanced Functional Materials*, **2020**, 30, 2000613	15.6	56
137	Mulberry-like hollow rGO microspheres decorated with CoO nanoparticles as efficient polysulfides anchoring for Li-S batteries. *Journal of Electroanalytical Chemistry*, **2020**, 873, 114375	4.1	2
136	High specific surface area bimodal porous carbon derived from biomass reed flowers for high performance lithium-sulfur batteries. *Journal of Colloid and Interface Science*, **2020**, 569, 22-33	9.3	51
135	Nanoscale thermal transport and elastic properties of lithiated amorphous Si thin films. *Materials Today: Proceedings*, **2020**, 25, 88-92	1.4	2
134	Synergistic effect of 3D current collector structure and Ni inactive matrix on the electrochemical performances of Sn-based anodes for lithium-ion batteries. *Materials Today Energy*, **2020**, 16, 100397	7	11
133	Defect-Rich Multishelled Fe-Doped CoO Hollow Microspheres with Multiple Spatial Confinements to Facilitate Catalytic Conversion of Polysulfides for High-Performance Li-S Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 12763-12773	9.5	70
132	Suppression of zinc dendrite formation on anode of Zn/LiFePO4 aqueous rechargeable batteries using electrodeposition. *Materials Today: Proceedings*, **2020**, 25, 93-96	1.4	1
131	Dual-network nanoporous NiFe2O4/NiO composites for high performance Li-ion battery anodes. *Chemical Engineering Journal*, **2020**, 388, 124207	14.7	35

130	Li1+xAlxTi2 (PO4)3, NASICON-type solid electrolyte fabrication with different methods. *Materials Today: Proceedings*, **2020**, 25, 97-100	1.4	7
129	Electrospun 3D Structured Carbon Current Collector for Li/S Batteries. *Nanomaterials*, **2020**, 10,	5.4	9
128	Sodium-Based Batteries: In Search of the Best Compromise Between Sustainability and Maximization of Electric Performance. *Frontiers in Energy Research*, **2020**, 8,	3.8	9
127	Fabrication of UV-Crosslinked Flexible Solid Polymer Electrolyte with PDMS for Li-Ion Batteries. *Polymers*, **2020**, 13,	4.5	6
126	Morphology and Dimension Variations of Copper Sulfide for High-Performance Electrode in Rechargeable Batteries: A Review. *ACS Applied Energy Materials*, **2020**, 3, 11480-11499	6.1	13
125	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. *Electrochimica Acta*, **2020**, 330, 135179	6.7	10
124	Synthesis of microflower-like vacancy defective copper sulfide/reduced graphene oxide composites for highly efficient lithium-ion batteries. *Nanotechnology*, **2020**, 31, 095405	3.4	6
123	Bimodal nanoporous NiO@Ni Si network prepared by dealloying method for stable Li-ion storage. *Journal of Power Sources*, **2020**, 449, 227550	8.9	27
122	Mechanistic Investigation of a Hybrid Zn/V O Rechargeable Battery with a Binary Li /Zn Aqueous Electrolyte. *ChemSusChem*, **2020**, 13, 724-731	8.3	10
121	Facile Synthesis of Binder-Free Three-Dimensional CuxS Nanoflowers for Lithium Batteries. *Frontiers in Energy Research*, **2020**, 8,	3.8	3
120	Three-Dimensionally Ordered Macroporous ZnO Framework as Dual-Functional Sulfur Host for High-Efficiency Lithium-Sulfur Batteries. *Nanomaterials*, **2020**, 10,	5.4	2
119	Tetrapropylammonium Hydroxide as a Zinc Dendrite Growth Suppressor for Rechargeable Aqueous Battery. *Frontiers in Energy Research*, **2020**, 8,	3.8	4
118	Evaluating Sulfur-Composite Cathode Material with Lithiated Graphite Anode in Coin Cell and Pouch Cell Configuration. *Frontiers in Energy Research*, **2020**, 8,	3.8	1
117	Dual network porous Si/Al9FeSi3/Fe2O3 composite for high performance Li-ion battery anode. *Electrochimica Acta*, **2020**, 358, 136936	6.7	7
116	Nitrogen-Deficient Graphitic Carbon Nitride/Carbon Nanotube as Polysulfide Barrier of High-Performance Lithium-Sulfur Batteries. *ChemElectroChem*, **2020**, 7, 4906-4912	4.3	8
115	Rational design of MOFs-derived Fe3O4@C interwoven with carbon nanotubes as sulfur host for advanced lithium-sulfur batteries. *Journal of Electroanalytical Chemistry*, **2020**, 877, 114608	4.1	3
114	A Review of Piezoelectric PVDF Film by Electrospinning and Its Applications. *Sensors*, **2020**, 20,	3.8	42
113	Synthesis of highly defective hollow double-shelled Co3O4 microspheres as sulfur host for high-performance lithium-sulfur batteries. *Materials Letters*, **2019**, 255, 126581	3.3	10

112	Flower-Like MoSe/MoO Composite with High Capacity and Long-Term Stability for Lithium-Ion Battery. *Nanomaterials*, **2019**, 9,	5.4	10
111	Synthesis of nitrogen-doped oxygen-deficient TiO2-x/reduced graphene oxide/sulfur microspheres via spray drying process for lithium-sulfur batteries. *Electrochimica Acta*, **2019**, 326, 134968	6.7	29
110	Nanoporous GeO2/Cu/Cu2O network synthesized by dealloying method for stable Li-ion storage. *Electrochimica Acta*, **2019**, 300, 363-372	6.7	25
109	Flexible S/DPAN/KB Nanofiber Composite as Binder-Free Cathodes for Li-S Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A5396-A5402	3.9	23
108	Hierarchical sandwiched Fe3O4@C/Graphene composite as anode material for lithium-ion batteries. *Journal of Electroanalytical Chemistry*, **2019**, 847, 113240	4.1	6
107	Ultra-fine zinc oxide nanocrystals decorated three-dimensional macroporous polypyrrole inverse opal as efficient sulfur hosts for lithium/sulfur batteries. *Chemical Engineering Journal*, **2019**, 375, 122055	14.7	24
106	The Electrochemical Performances of n-Type Extended Lattice Spaced Si Negative Electrodes for Lithium-Ion Batteries. *Frontiers in Chemistry*, **2019**, 7, 389	5	10
105	Synthesis of ZnO/Polypyrrole Nanoring Composite as High-Performance Anode Materials for Lithium Ion Batteries. *Journal of Nanomaterials*, **2019**, 2019, 1-8	3.2	1
104	A Novel Hierarchically Porous Polypyrrole Sphere Modified Separator for Lithium-Sulfur Batteries. *Polymers*, **2019**, 11,	4.5	5
103	P2-NaMnO by Co Incorporation: As a Cathode Material of High Capacity and Long Cycle Life for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 28928-28933	9.5	24
102	Synthesis of carbon coated Fe3O4 grown on graphene as effective sulfur-host materials for advanced lithium/sulfur battery. *Journal of Power Sources*, **2019**, 437, 226901	8.9	28
101	Hierarchical Rambutan-Like CNTs-Assembled N□Co□@rGO Composite as Sulfur Immobilizer for High-Performance Lithium-Sulfur Batteries. *ChemElectroChem*, **2019**, 6, 4565-4570	4.3	9
100	Numerical study of integrated latent heat thermal energy storage devices using nanoparticle-enhanced phase change materials. *Solar Energy*, **2019**, 194, 724-741	6.8	19
99	Spray-Pyrolysis Preparation of Li4Ti5O12/Si Composites for Lithium-Ion Batteries. *Eurasian Chemico-Technological Journal*, **2019**, 69	0.8	1
98	Exceptionally highly stable cycling performance and facile oxygen-redox of manganese-based cathode materials for rechargeable sodium batteries. *Nano Energy*, **2019**, 59, 197-206	17.1	62
97	Sulfur-Infiltrated Three-Dimensionally Ordered Mesoporous Polypyrrole Cathode for High-Performance Lithium-Sulfur Battery. *ChemElectroChem*, **2018**, 5, 1591-1598	4.3	19
96	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. *Journal of Materials Chemistry A*, **2018**, 6, 8558-8567	13	41
95	Chemical Dealloying Synthesis of CuS Nanowire-on-Nanoplate Network as Anode Materials for Li-Ion Batteries. *Metals*, **2018**, 8, 252	2.3	22

94	Nitrogen-doped carbon nanotubes coated with zinc oxide nanoparticles as sulfur encapsulator for high-performance lithium/sulfur batteries. *Beilstein Journal of Nanotechnology*, **2018**, 9, 1677-1685	3	8
93	Synthesis of a Flexible Freestanding Sulfur/Polyacrylonitrile/Graphene Oxide as the Cathode for Lithium/Sulfur Batteries. *Polymers*, **2018**, 10,	4.5	9
92	Three-dimensionally ordered macro/mesoporous TiO matrix to immobilize sulfur for high performance lithium/sulfur batteries. *Nanotechnology*, **2018**, 29, 415401	3.4	10
91	Synthesis of Core-Shell Carbon Encapsulated Fe2O3 Composite through a Facile Hydrothermal Approach and Their Application as Anode Materials for Sodium-Ion Batteries. *Metals*, **2018**, 8, 461	2.3	4
90	Three-Dimensionally Hierarchical Graphene Based Aerogel Encapsulated Sulfur as Cathode for Lithium/Sulfur Batteries. *Nanomaterials*, **2018**, 8,	5.4	14
89	Micro-Spherical Sulfur/Graphene Oxide Composite via Spray Drying for High Performance Lithium Sulfur Batteries. *Nanomaterials*, **2018**, 8,	5.4	35
88	Na0.96V2O5: A New Competitive Cathode Material for Sodium-Ion Batteries Synthesized by a Soft Chemistry Route. *Chemistry of Materials*, **2018**, 30, 5305-5314	9.6	15
87	Polyacrylonitrile-Nanofiber-Based Gel Polymer Electrolyte for Novel Aqueous Sodium-Ion Battery Based on a NaMnO Cathode and Zn Metal Anode. *Polymers*, **2018**, 10,	4.5	11
86	Three-Dimensional Hierarchical Porous Structure of PPy/Porous-Graphene to Encapsulate Polysulfides for Lithium/Sulfur Batteries. *Nanomaterials*, **2018**, 8,	5.4	15
85	N-Type Doped Silicon Thin Film on a Porous Cu Current Collector as the Negative Electrode for Li-Ion Batteries. *ChemistryOpen*, **2018**, 7, 92-96	2.3	18
84	Flexible free-standing Na4Mn9O18/reduced graphene oxide composite film as a cathode for sodium rechargeable hybrid aqueous battery. *Electrochimica Acta*, **2018**, 259, 647-654	6.7	17
83	Novel silicon nanowire film on copper foil as high performance anode for lithium-ion batteries. *Ionics*, **2018**, 24, 373-378	2.7	16
82	Gel polymer electrolytes for lithium-sulfur batteries. *Materials Today: Proceedings*, **2018**, 5, 22882-22888	1.4	7
81	3D intermetallic anodes for Lithium-ion batteries. *Materials Today: Proceedings*, **2018**, 5, 22877-22881	1.4	1
80	Development of a novel gel-like composite polymer separator for 3D Zn/LiFePO4 aqueous hybrid ion battery. *Materials Today: Proceedings*, **2018**, 5, 22871-22876	1.4	
79	N-type doped amorphous Si thin film on a surface of rough current collector as anode for Li-ion batteries. *Materials Today: Proceedings*, **2018**, 5, 22759-22763	1.4	3
78	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. *ACS Energy Letters*, **2018**, 3, 2620-2640	20.1	439
77	Synthesis of Carbon Nanotubes on a Shungite Substrate and Their Use for LithiumSulfur Batteries. *Journal of Engineering Physics and Thermophysics*, **2018**, 91, 1295-1301	0.6	5

76	A mini-review on the development of Si-based thin film anodes for Li-ion batteries. *Materials Today Energy*, **2018**, 9, 49-66	7	70
75	On using splitter plates and flow guide-vanes for battery module cooling. *Heat and Mass Transfer*, **2017**, 53, 1-10	2.2	13
74	Effect of graphene nanosheets on electrochemical performance of Li 4 Ti 5 O 12 in lithium-ion capacitors. *Ceramics International*, **2017**, 43, 6554-6562	5.1	22
73	Three-dimensional carbon cloth-supported ZnO nanorod arrays as a binder-free anode for lithium-ion batteries. *Journal of Nanoparticle Research*, **2017**, 19, 1	2.3	10
72	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries. *Solid State Sciences*, **2017**, 66, 44-49	3.4	54
71	Effect of carbon-sulphur bond in a sulphur/dehydrogenated polyacrylonitrile/reduced graphene oxide composite cathode for lithium-sulphur batteries. *Journal of Power Sources*, **2017**, 355, 140-146	8.9	21
70	3D Ordered Macroporous Carbon Encapsulated ZnO Nanoparticles as a High-Performance Anode for Lithium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 2359-2365	4.3	16
69	Synthesis and Characterization of Silicon Based Anode Materials. *Materials Today: Proceedings*, **2017**, 4, 4502-4511	1.4	1
68	A new step in the development of Zn/LiFePO4 aqueous battery. *Materials Today: Proceedings*, **2017**, 4, 4452-4457	1.4	
67	NaMnO/Carbon Nanotube Composite as a High Electrochemical Performance Material for Aqueous Sodium-Ion Batteries. *Nanoscale Research Letters*, **2017**, 12, 569	5	14
66	LiNiN, a Promising Negative Electrode Material for Li-Ion Batteries with a Soft Structural Response. *Inorganic Chemistry*, **2017**, 56, 13815-13821	5.1	3
65	Enhanced electrochemical performance of sulfur/polyacrylonitrile composite by carbon coating for lithium/sulfur batteries. *Journal of Nanoparticle Research*, **2017**, 19, 1	2.3	22
64	Enhanced cycle performance of Li/S battery with the reduced graphene oxide/activated carbon functional interlayer. *Journal of Energy Chemistry*, **2017**, 26, 1276-1281	12	82
63	MoS2 nanopowder as anode material for lithium-ion batteries produced by self-propagating high-temperature synthesis. *Materials Today: Proceedings*, **2017**, 4, 4567-4571	1.4	7
62	Silicon thin film on graphene coated nickel foam as an anode for Li-ion batteries. *Electrochimica Acta*, **2017**, 258, 800-806	6.7	25
61	Electrodeposited Ni-Sn intermetallic alloy electrode for 3D sulfur battery. *Materials Today: Proceedings*, **2017**, 4, 4491-4495	1.4	6
60	Development of a novel SiO 2 based composite anode material for Li-ion batteries. *Materials Today: Proceedings*, **2017**, 4, 4542-4547	1.4	14
59	Thiol-modified activated carbon material for sensor technology. *Materials Today: Proceedings*, **2017**, 4, 4599-4602	1.4	2

58	CVD graphene growth on a surface of liquid gallium. *Materials Today: Proceedings*, **2017**, 4, 4548-4554	1.4	11
57	Facile Synthesis of SiO@C Nanoparticles Anchored on MWNT as High-Performance Anode Materials for Li-ion Batteries. *Nanoscale Research Letters*, **2017**, 12, 459	5	25
56	Facile Synthesis of ZnO Nanoparticles on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode Material for Lithium-Ion Batteries. *Materials*, **2017**, 10,	3.5	9
55	Biomass Waste Inspired Highly Porous Carbon for High Performance Lithium/Sulfur Batteries. *Nanomaterials*, **2017**, 7,	5.4	22
54	Corn stalk-derived activated carbon with a stacking sheet-like structure as sulfur cathode supporter for lithium/sulfur batteries. *Ionics*, **2016**, 22, 63-69	2.7	23
53	Exploring 3D microstructural evolution in Li-Sulfur battery electrodes using in-situ X-ray tomography. *Scientific Reports*, **2016**, 6, 35291	4.9	45
52	Electrochemical performance of carbon-encapsulated Fe3O4 nanoparticles in lithium-ion batteries: morphology and particle size effects. *Electrochimica Acta*, **2016**, 216, 475-483	6.7	37
51	Fabrication and Properties of Carbon-Encapsulated Cobalt Nanoparticles over NaCl by CVD. *Nanoscale Research Letters*, **2016**, 11, 432	5	20
50	Effect of VO 4 3□substitution for PO 4 3□on electrochemical properties of the Li 3 Fe 2 (PO 4) 3 cathode materials. *Electrochimica Acta*, **2016**, 219, 547-552	6.7	8
49	Synthesis and Electrochemical Performance of Polypyrrole-Coated Sulfur/Multi-Walled Carbon Nanotube Composite Cathode Materials for Lithium/Sulfur Batteries. *Materials Science Forum*, **2016**, 847, 33-38	0.4	
48	Synthesis and electrochemical investigation of highly dispersed ZnO nanoparticles as anode material for lithium-ion batteries. *Ionics*, **2016**, 22, 1387-1393	2.7	26
47	Synthesis of hierarchical MoS2 microspheres composed of nanosheets assembled via facile hydrothermal method as anode material for lithium-ion batteries. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	19
46	Examining the effect of nanosized Mg0.6Ni0.4O and Al2O3 additives on S/polyaniline cathodes for lithium□sulphur batteries. *Journal of Electroanalytical Chemistry*, **2016**, 780, 407-415	4.1	17
45	ZnO Nanorods Grown Directly on Copper Foil Substrate as a Binder-Free Anode for High Performance Lithium-Ion Batteries. *International Journal of Electrochemical Science*, **2016**, 8439-8446	2.2	8
44	Simple One-Pot Synthesis of Hexagonal ZnO Nanoplates as Anode Material for Lithium-Ion Batteries. *Journal of Nanomaterials*, **2016**, 2016, 1-6	3.2	9
43	Synthesis of Multiwalled Carbon Nanotube Aqueous Suspension with Surfactant Sodium Dodecylbenzene Sulfonate for Lithium/Sulfur Rechargeable Batteries. *Electrochemistry*, **2016**, 84, 7-11	1.2	7
42	In situ sol-gel synthesis of ultrafine ZnO nanocrystals anchored on graphene as anode material for lithium-ion batteries. *Ceramics International*, **2016**, 42, 12371-12377	5.1	54
41	A simple approach to synthesize novel sulfur/graphene oxide/multiwalled carbon nanotube composite cathode for high performance lithium/sulfur batteries. *Ionics*, **2016**, 22, 1819-1827	2.7	6

40	High performance freestanding composite cathode for lithium-sulfur batteries. *Electrochimica Acta*, **2016**, 217, 242-248	6.7	34
39	High Mass-Loading of Sulfur-Based Cathode Composites and Polysulfides Stabilization for Rechargeable Lithium/Sulfur Batteries. *Frontiers in Energy Research*, **2015**, 3,	3.8	6
38	Nickel Hexacyanoferrate Nanoparticles as a Low Cost Cathode Material for Lithium-Ion Batteries. *Electrochimica Acta*, **2015**, 184, 58-63	6.7	46
37	Effect of VO43Substitution for PO43On Electrical Conductivity in the Nasicon Li3Sc2(PO4)3Compound. *Electrochimica Acta*, **2015**, 176, 327-333	6.7	8
36	Carbon/Sulfur Composite Cathodes for Flexible Lithium/Sulfur Batteries: Status and Prospects. *Frontiers in Energy Research*, **2015**, 3,	3.8	14
35	A Free-Standing Sulfur/Nitrogen-Doped Carbon Nanotube Electrode for High-Performance Lithium/Sulfur Batteries. *Nanoscale Research Letters*, **2015**, 10, 450	5	44
34	High Performance Zn/LiFePO4 Aqueous Rechargeable Battery for Large Scale Applications. *Electrochimica Acta*, **2015**, 152, 505-511	6.7	83
33	High performance sulfur/nitrogen-doped graphene cathode for lithium/sulfur batteries. *Ionics*, **2015**, 21, 1925-1930	2.7	19
32	Assessment of a Shallow Water Model using a Linear Turbulence Model for Obstruction-Induced Discontinuous Flows. *Eurasian Chemico-Technological Journal*, **2015**, 14, 155	0.8	2
31	Three-dimensional carbon fiber as current collector for lithium/sulfur batteries. *Ionics*, **2014**, 20, 803-808	2.7	39
30	Poly(vinylidene fluoride-co-hexafluoropropylene)/poly(methylmethacrylate)/nanoclay composite gel polymer electrolyte for lithium/sulfur batteries. *Journal of Solid State Electrochemistry*, **2014**, 18, 1111-1116	2.6	62
29	Preparation of novel network nanostructured sulfur composite cathode with enhanced stable cycle performance. *Journal of Power Sources*, **2014**, 270, 326-331	8.9	40
28	Synthesis of Hierarchical Porous Sulfur/Polypyrrole/Multiwalled Carbon Nanotube Composite Cathode for Lithium Batteries. *Electrochimica Acta*, **2014**, 143, 49-55	6.7	54
27	A simple approach to synthesize nanosized sulfur/graphene oxide materials for high-performance lithium/sulfur batteries. *Ionics*, **2014**, 20, 1047-1050	2.7	34
26	A novel lithium/sulfur battery based on sulfur/graphene nanosheet composite cathode and gel polymer electrolyte. *Nanoscale Research Letters*, **2014**, 9, 137	5	37
25	Building on a traditional chemical engineering curriculum using computational fluid dynamics. *Education for Chemical Engineers*, **2014**, 9, e85-e93	2.4	6
24	Effect of Graphene on Sulfur/Polyacrylonitrile Nanocomposite Cathode in High Performance Lithium/Sulfur Batteries. *Journal of the Electrochemical Society*, **2013**, 160, A1194-A1198	3.9	58
23	Effect of nanosized Mg0.6Ni0.4O prepared by self-propagating high temperature synthesis on sulfur cathode performance in Li/S batteries. *Powder Technology*, **2013**, 235, 248-255	5.2	68

22	Ternary sulfur/polyacrylonitrile/Mg0.6Ni0.4O composite cathodes for high performance lithium/sulfur batteries. *Journal of Materials Chemistry A*, **2013**, 1, 295-301	13	191
21	Electrochemical performance of lithium gel polymer battery with nanostructured sulfur/carbon composite cathode. *Solid State Ionics*, **2013**, 234, 40-45	3.3	74
20	One-step synthesis of branched sulfur/polypyrrole nanocomposite cathode for lithium rechargeable batteries. *Journal of Power Sources*, **2012**, 208, 1-8	8.9	111
19	Rechargeable hybrid aqueous batteries. *Journal of Power Sources*, **2012**, 216, 222-226	8.9	167
18	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. *Journal of Chemical Engineering of Japan*, **2011**, 44, 179-186	0.8	3
17	Synthesis of spherical LiMnPO4/C composite microparticles. *Materials Research Bulletin*, **2011**, 46, 1311-1314	5.1	11
16	LiMnPO4 Olivine as a Cathode for Lithium Batteries. *Open Materials Science Journal*, **2011**, 5, 222-227		8
15	LiMg[sub x]Mn[sub 1−]PO[sub 4]/C Cathodes for Lithium Batteries Prepared by a Combination of Spray Pyrolysis with Wet Ballmilling. *Journal of the Electrochemical Society*, **2010**, 157, A430	3.9	62
14	Preparation of carbon coated LiMnPO4 powders by a combination of spray pyrolysis with dry ball-milling followed by heat treatment. *Advanced Powder Technology*, **2010**, 21, 187-196	4.6	64
13	Physical and electrochemical properties of LiMnPO4/C composite cathode prepared with different conductive carbons. *Journal of Power Sources*, **2010**, 195, 7445-7451	8.9	135
12	Electrochemical performance of nanocomposite LiMnPO4/C cathode materials for lithium batteries. *Electrochemistry Communications*, **2010**, 12, 75-78	5.1	125
11	SYNTHESIS OF NANOSTRUCTURED LiM0.15Mn1.85O4 (M = Mn, Co, Al, AND Fe) PARTICLES BY SPRAY PYROLYSIS IN A FLUIDIZED BED REACTOR. *Chemical Engineering Communications*, **2008**, 195, 1292-1301	2.2	1
10	Lithium AlPO4 composite polymer battery with nanostructured LiMn2O4 cathode. *Journal of Solid State Electrochemistry*, **2008**, 12, 295-302	2.6	7
9	Battery performance of nanostructured lithium manganese oxide synthesized by ultrasonic spray pyrolysis at elevated temperature. *Journal of Solid State Electrochemistry*, **2007**, 12, 57-62	2.6	17
8	A Nonflammable Lithium Polymer Battery with High Performance for Elevated Temperature Applications. *Electrochemical and Solid-State Letters*, **2007**, 10, A208		11
7	Stability of Lithium Polymer Battery Based on Substituted Spinel Cathode and PEG-Borate Ester−PC Plasticized Polymer Electrolyte. *Journal of the Electrochemical Society*, **2005**, 152, A1533	3.9	14
6	Spray pyrolysis synthesis of nanostructured LiFexMn2−xO4 cathode materials for lithium-ion batteries. *Powder Technology*, **2005**, 159, 55-62	5.2	29
5	Electrochemical performance of nanostructured LiMxMn2−xO4 (M=Co and Al) powders at high charge−discharge operations. *Solid State Ionics*, **2005**, 176, 1027-1034	3.3	75

4	Electrochemical Performance of Lithium Polymer Battery Based on PC/Polymer Borate Ester Plasticizers. *Electrochemical and Solid-State Letters*, **2005**, 8, A30		4
3	Effect of Additions of Organic Sulfonates on the Conductivity of Lithium Conducting Polymer Electrolytes. *Electrochemistry*, **2001**, 69, 312-313	1.2	
2	Revisiting the carbon mesopore contribution towards improved performance of ionic liquid based EDLCs at sub-zero temperatures. *Ionics*,1	2.7	0
1	Solid-State Nanobatteries. *ACS Symposium Series*,201-248	0.4	