

Zhumabay Bakenov

List of Publications by Year in descending order

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220
papers

6,181
citations

81743

39
h-index

91712

69
g-index

223
all docs

223
docs citations

223
times ranked

6000
citing authors

#	ARTICLE	IF	CITATIONS
1	PAM-based hydrogel electrolyte for hybrid rechargeable aqueous (Zn and Li-ion) battery. <i>Materials Today: Proceedings</i> , 2022, 49, 2491-2494.	0.9	2
2	Revisiting the carbon mesopore contribution towards improved performance of ionic liquid-based EDLCs at sub-zero temperatures. <i>Ionics</i> , 2022, 28, 893-901.	1.2	6
3	Defective ZnOx@porous carbon nanofiber network inducing dendrite-free zinc plating as zinc metal anode for high-performance aqueous rechargeable Zn/Na ₄ Mn ₉ O ₁₈ battery based on hybrid electrolyte. <i>Journal of Power Sources</i> , 2022, 518, 230761.	4.0	20
4	Photo and thermal crosslinked poly(vinyl alcohol)-based nanofiber membrane for flexible gel polymer electrolyte. <i>Journal of Power Sources</i> , 2022, 520, 230896.	4.0	20
5	In-situ constructed accordion-like Nb ₂ C/Nb ₂ O ₅ heterostructure as efficient catalyzer towards high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2022, 520, 230902.	4.0	13
6	Oxidized Nb ₂ C 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> , 2022, 119, 45-52.	5.6	14
7	Effect of thickness and reaction media on properties of ZnO thin films by SILAR. <i>Scientific Reports</i> , 2022, 12, 851.	1.6	49
8	Defect-rich porous tubular graphitic carbon nitride with strong adsorption towards lithium polysulfides for high-performance lithium-sulfur batteries. <i>Journal of Materials Science and Technology</i> , 2022, 115, 140-147.	5.6	11
9	Interface modification of NASICON-type Li-ion conducting ceramic electrolytes: a critical evaluation. <i>Materials Advances</i> , 2022, 3, 3055-3069.	2.6	14
10	Biomass-Derived Porous Carbon from Agar as an Anode Material for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2022, 12, 22.	1.9	6
11	Application of Response Surface Methodology for Optimization of Nanosized Zinc Oxide Synthesis Conditions by Electrospinning Technique. <i>Nanomaterials</i> , 2022, 12, 1733.	1.9	4
12	Annealing Optimization of Lithium Cobalt Oxide Thin Film for Use as a Cathode in Lithium-Ion Microbatteries. <i>Nanomaterials</i> , 2022, 12, 2188.	1.9	8
13	Ultrathin clay-containing layer-by-layer separator coating enhances performance of lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2021, 366, 137454.	2.6	30
14	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> , 2021, 853, 157268.	2.8	32
15	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> , 2021, 74, 69-77.	5.6	27
16	Recent advancements in solid electrolytes integrated into all-solid-state 2D and 3D lithium-ion microbatteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15140-15178.	5.2	39
17	Rational Construction of Sulfur-Deficient NiCo ₂ S ₄ Hollow Microspheres as an Effective Polysulfide Immobilizer toward High-Performance Lithium/Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 1687-1695.	2.5	34
18	Editorial: Energy Storage Systems Beyond Li-Ion Intercalation Chemistry. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	0

#	ARTICLE	IF	CITATIONS
19	NiCo ₂ S ₄ nanoparticles embedded in nitrogen-doped carbon nanotubes networks as effective sulfur carriers for advanced Lithium-Sulfur batteries. <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110924.	2.2	13
20	3D Hierarchical Nanocrystalline CuS Cathode for Lithium Batteries. <i>Materials</i> , 2021, 14, 1615.	1.3	9
21	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> , 2021, 861, 157969.	2.8	18
22	Physical Vapor Deposition of Cathode Materials for All Solid-State Li Ion Batteries: A Review. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	19
23	Design and preparation of thin film gel polymer electrolyte for 3D Li-ion battery. <i>Journal of Power Sources</i> , 2021, 493, 229686.	4.0	14
24	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> , 2021, 592, 103-115.	5.0	22
25	NiCo ₂ S ₄ Nanocrystals on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode for Lithium-Ion Batteries. <i>Nanoscale Research Letters</i> , 2021, 16, 105.	3.1	4
26	Structural and Chemical Modifications Towards High-Performance of Triboelectric Nanogenerators. <i>Nanoscale Research Letters</i> , 2021, 16, 122.	3.1	40
27	Enhancing purity and ionic conductivity of NASICON-typed Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ solid electrolyte. <i>Ceramics International</i> , 2021, 47, 18188-18195.	2.3	23
28	Rational design of a cobalt sulfide nanoparticle-embedded flexible carbon nanofiber membrane electrocatalyst for advanced lithium-sulfur batteries. <i>Nanotechnology</i> , 2021, 32, 455703.	1.3	3
29	Novel Ni/Ni ₂ P@C hollow heterostructure microsphere as efficient sulfur hosts for high-performance lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159576.	2.8	20
30	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> , 2021, 595, 51-58.	5.0	38
31	Three-dimensional foam-type current collectors for rechargeable batteries: A short review. <i>Journal of Power Sources Advances</i> , 2021, 10, 100065.	2.6	14
32	Physical properties of carbon nanowalls synthesized by the ICP-PECVD method vs. the growth time. <i>Scientific Reports</i> , 2021, 11, 19287.	1.6	20
33	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> , 2021, 84, 124-132.	5.6	18
34	Engineering zwitterionic barrier by squaraine-based porous organic framework fiber for superior lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2021, 397, 139276.	2.6	4
35	A porous puckered V ₂ O ₅ polymorph as new high performance cathode material for aqueous rechargeable zinc batteries. <i>Journal of Energy Chemistry</i> , 2021, 61, 459-468.	7.1	13
36	Flower-like Ni ₃ S ₂ hollow microspheres as superior sulfur hosts for lithium-sulfur batteries. <i>Microporous and Mesoporous Materials</i> , 2021, 326, 111355.	2.2	12

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37	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> , 2021, 882, 160728.	2.8	12
38	3D ordered macroporous amorphous Nb ₂ O ₅ as anode material for high-performance sodium-ion batteries. <i>Applied Surface Science</i> , 2021, 567, 150862.	3.1	17
39	Sn modified nanoporous Ge for improved lithium storage performance. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 563-572.	5.0	23
40	Promoting polysulfides redox conversion by sulfur-deficient ZnS hollow polyhedrons for lithium-sulfur batteries. <i>Materials and Design</i> , 2021, 210, 110060.	3.3	8
41	Current state of high voltage olivine structured LiMPO ₄ cathode materials for energy storage applications: A review. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160774.	2.8	55
42	Carbon nanotubes assembled on porous TiO ₂ matrix doped with Co ₃ O ₄ as sulfur host for lithium-sulfur batteries. <i>Nanotechnology</i> , 2021, 32, 075403.	1.3	12
43	Fabrication of UV-Crosslinked Flexible Solid Polymer Electrolyte with PDMS for Li-Ion Batteries. <i>Polymers</i> , 2021, 13, 15.	2.0	14
44	Thermal stability and reduction mechanism of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ and LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode materials studied by a Temperature Programmed Reduction. <i>Thermochimica Acta</i> , 2021, 706, 179069.	1.2	1
45	Tailoring Electrolyte for Lithium-Ion Batteries Operating at Low Temperature. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1898-1898.	0.0	0
46	Fabrication of Freestanding Flexible Electrode Based on PEDOT:PSS Polymer Composite for Li-S Batteries. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1887-1887.	0.0	0
47	Prevention of Reduction in Nasicon-Type Solid Electrolyte By Thin Polymer Coating. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 12-12.	0.0	0
48	Preparation of Ni-Sn Alloy-Type Anode by Electrospinning. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 309-309.	0.0	0
49	Electrochemical Properties of Sn and Cu Multilayered Thin Films for Li Ion Battery Anodes. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 308-308.	0.0	0
50	A Study of Ni-Doping Effects in Na ₂ Mn ₃ -XNi ₃ O ₇ Layered Cathode for Sodium-Ion Battery. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1829-1829.	0.0	0
51	Effect of Tetrapropyl Ammonium Hydroxide on Zn Dendrite Formation for Rechargeable Aqueous Battery. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1890-1890.	0.0	0
52	Bio-Derived Porous Carbon from Agar as an Anode Material for Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 304-304.	0.0	0
53	Advanced Battery Materials Research at Nazarbayev University: Review. <i>Eurasian Chemico-Technological Journal</i> , 2021, 23, 199.	0.3	0
54	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> , 2020, 330, 135179.	2.6	15

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55	Synthesis of microflower-like vacancy defective copper sulfide/reduced graphene oxide composites for highly efficient lithium-ion batteries. <i>Nanotechnology</i> , 2020, 31, 095405.	1.3	6
56	Bimodal nanoporous NiO@Ni ²⁺ /Si network prepared by dealloying method for stable Li-ion storage. <i>Journal of Power Sources</i> , 2020, 449, 227550.	4.0	42
57	Mechanistic Investigation of a Hybrid Zn/V ₂ O ₅ Rechargeable Battery with a Binary Li ⁺ /Zn ²⁺ Aqueous Electrolyte. <i>ChemSusChem</i> , 2020, 13, 724-731.	3.6	21
58	Facile Synthesis of Binder-Free Three-Dimensional Cu ₂ S Nanoflowers for Lithium Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	4
59	Three-Dimensionally Ordered Macroporous ZnO Framework as Dual-Functional Sulfur Host for High-Efficiency Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2020, 10, 2267.	1.9	6
60	Tetrapropylammonium Hydroxide as a Zinc Dendrite Growth Suppressor for Rechargeable Aqueous Battery. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	10
61	Evaluating Sulfur-Composite Cathode Material with Lithiated Graphite Anode in Coin Cell and Pouch Cell Configuration. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	1
62	Dual network porous Si/Al ₉ FeSi ₃ /Fe ₂ O ₃ composite for high performance Li-ion battery anode. <i>Electrochimica Acta</i> , 2020, 358, 136936.	2.6	11
63	Nitrogen-Deficient Graphitic Carbon Nitride/Carbon Nanotube as Polysulfide Barrier of High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2020, 7, 4906-4912.	1.7	14
64	Rational design of MOFs-derived Fe ₃ O ₄ @C interwoven with carbon nanotubes as sulfur host for advanced lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 877, 114608.	1.9	11
65	A Review of Piezoelectric PVDF Film by Electrospinning and Its Applications. <i>Sensors</i> , 2020, 20, 5214.	2.1	186
66	High Mass-Loading Sulfur-Composite Cathode for Lithium-Sulfur Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	6
67	Onion-Structured Si Anode Constructed with Coating by Li ₄ Ti ₅ O ₁₂ and Cyclized-Polyacrylonitrile for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2020, 10, 1995.	1.9	1
68	High-Voltage Oxygen-Redox-Based Cathode for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001111.	10.2	72
69	All-Purpose Electrodes: All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance Li-S Batteries (Adv. Funct. Mater. 19/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070123.	7.8	3
70	Hybrids of La ₂ O ₃ nanoplates anchored in three-dimensional carbon nanotubes microspheres as efficient sulfur-hosts for highperformance lithium/sulfur batteries. <i>Materials Letters</i> , 2020, 270, 127690.	1.3	11
71	All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance Li-S Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000613.	7.8	90
72	Mulberry-like hollow rGO microspheres decorated with CoO nanoparticles as efficient polysulfides anchoring for Li-S batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114375.	1.9	6

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73	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> , 2020, 569, 22-33.	5.0	103
74	Nanoscale thermal transport and elastic properties of lithiated amorphous Si thin films. <i>Materials Today: Proceedings</i> , 2020, 25, 88-92.	0.9	4
75	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> , 2020, 16, 100397.	2.5	20
76	Defect-Rich Multishelled Fe-Doped Co_3O_4 Hollow Microspheres with Multiple Spatial Confinements to Facilitate Catalytic Conversion of Polysulfides for High-Performance Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12763-12773.	4.0	129
77	Suppression of zinc dendrite formation on anode of Zn/LiFePO ₄ aqueous rechargeable batteries using electrodeposition. <i>Materials Today: Proceedings</i> , 2020, 25, 93-96.	0.9	2
78	Dual-network nanoporous NiFe ₂ O ₄ /NiO composites for high performance Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2020, 388, 124207.	6.6	54
79	$\text{Li}_{1+x}\text{Al}_x\text{Ti}_{2-x}(\text{PO}_4)_3$, NASICON-type solid electrolyte fabrication with different methods. <i>Materials Today: Proceedings</i> , 2020, 25, 97-100.	0.9	19
80	Electrospun 3D Structured Carbon Current Collector for Li/S Batteries. <i>Nanomaterials</i> , 2020, 10, 745.	1.9	19
81	Morphology and Dimension Variations of Copper Sulfide for High-Performance Electrode in Rechargeable Batteries: A Review. <i>ACS Applied Energy Materials</i> , 2020, 3, 11480-11499.	2.5	46
82	Sodium-Based Batteries: In Search of the Best Compromise Between Sustainability and Maximization of Electric Performance. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	26
83	High Performance Metal Sulfide Electrode for Lithium Battery. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 300-300.	0.0	1
84	Development of Modified Silicon Nanoparticles for Energy Storage. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 62-62.	0.0	0
85	PROSPECTS FOR CREATING A FULL CYCLE OF LITHIUM PRODUCTION IN KAZAKHSTAN FROM ORE PROCESSING TO LITHIUM BATTERIES. <i>Series Chemistry and Technology</i> , 2020, 5, 38-45.	0.1	1
86	Lightweight 3D Structured Carbon Nanofiber Current Collector for Li/S Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1143-1143.	0.0	0
87	High Mass-Loading Sulfur-Composite Cathode for Lithium-Sulfur Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 282-282.	0.0	0
88	Fabrication and Characterization of Electrospun Pvam/TEOS Based Gel Polymer Electrolyte. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 832-832.	0.0	0
89	Modified Silicon Nanoparticles As an Anode for Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 118-118.	0.0	0
90	High Performance Metal Sulfide Electrode for Lithium Battery. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 256-256.	0.0	1

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91	Composite Paam-Based Hydrogel Electrolyte for Hybrid Aqueous (Zn-Li-ion) Battery. ECS Meeting Abstracts, 2020, MA2020-02, 703-703.	0.0	0
92	Application of Thin Film As Polymer Gel Electrolyte for 3D Li-Ion Battery. ECS Meeting Abstracts, 2020, MA2020-02, 3800-3800.	0.0	0
93	3D Sn-Based Anodes for Solid State Rechargeable Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 944-944.	0.0	0
94	A Novel Hierarchically Porous Polypyrrole Sphere Modified Separator for Lithium-Sulfur Batteries. Polymers, 2019, 11, 1344.	2.0	9
95	P2-Na _{2/3} MnO ₂ 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.	4.0	41
96	Synthesis of carbon coated Fe ₃ O ₄ grown on graphene as effective sulfur-host materials for advanced lithium/sulfur battery. Journal of Power Sources, 2019, 437, 226901.	4.0	42
97	Hierarchical Rambutan-Like CNTs Assembled Na ⁺ Co ²⁺ C@rGO Composite as Sulfur Immobilizer for High-Performance Lithium-Sulfur Batteries. ChemElectroChem, 2019, 6, 4565-4570.	1.7	10
98	Numerical study of integrated latent heat thermal energy storage devices using nanoparticle-enhanced phase change materials. Solar Energy, 2019, 194, 724-741.	2.9	36
99	Synthesis of highly defective hollow double-shelled Co ₃ O ₄ microspheres as sulfur host for high-performance lithium-sulfur batteries. Materials Letters, 2019, 255, 126581.	1.3	14
100	Flower-Like MoSe ₂ /MoO ₂ Composite with High Capacity and Long-Term Stability for Lithium-Ion Battery. Nanomaterials, 2019, 9, 1256.	1.9	18
101	Synthesis of nitrogen-doped oxygen-deficient TiO _{2-x} /reduced graphene oxide/sulfur microspheres via spray drying process for lithium-sulfur batteries. Electrochimica Acta, 2019, 326, 134968.	2.6	37
102	Nanoporous GeO ₂ /Cu/Cu ₂ O network synthesized by dealloying method for stable Li-ion storage. Electrochimica Acta, 2019, 300, 363-372.	2.6	28
103	Flexible S/DPAN/KB Nanofiber Composite as Binder-Free Cathodes for Li-S Batteries. Journal of the Electrochemical Society, 2019, 166, A5396-A5402.	1.3	31
104	Hierarchical sandwiched Fe ₃ O ₄ @C/Graphene composite as anode material for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2019, 847, 113240.	1.9	23
105	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.	6.6	36
106	The Electrochemical Performances of n-Type Extended Lattice Spaced Si Negative Electrodes for Lithium-Ion Batteries. Frontiers in Chemistry, 2019, 7, 389.	1.8	15
107	Synthesis of ZnO/Polypyrrole Nanoring Composite as High-Performance Anode Materials for Lithium Ion Batteries. Journal of Nanomaterials, 2019, 2019, 1-8.	1.5	2
108	Exceptionally highly stable cycling performance and facile oxygen-redox of manganese-based cathode materials for rechargeable sodium batteries. Nano Energy, 2019, 59, 197-206.	8.2	100

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109	Spray-Pyrolysis Preparation of Li ₄ Ti ₅ O ₁₂ /Si Composites for Lithium-Ion Batteries. Eurasian Chemico-Technological Journal, 2019, , 69.	0.3	2
110	Novel Li ₄ Ti ₅ O ₁₂ /Si/c-PAN Composite Anode for Lithium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
111	Mastering of Particle Size and Morphology of the Puckered Layer V ₂ O ₅ Polymorph for Enhanced Na Electrochemical Properties. ECS Meeting Abstracts, 2019, , .	0.0	0
112	Sulfur-Infiltrated Three-Dimensionally Ordered Mesoporous Polypyrrole Cathode for High-Performance Lithium-Sulfur Battery. ChemElectroChem, 2018, 5, 1591-1598.	1.7	22
113	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. Journal of Materials Chemistry A, 2018, 6, 8558-8567.	5.2	52
114	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.	0.9	35
115	Flexible free-standing Na ₄ Mn ₉ O ₁₈ /reduced graphene oxide composite film as a cathode for sodium rechargeable hybrid aqueous battery. Electrochimica Acta, 2018, 259, 647-654.	2.6	25
116	Novel silicon nanowire film on copper foil as high performance anode for lithium-ion batteries. Ionics, 2018, 24, 373-378.	1.2	22
117	Gel polymer electrolytes for lithium-sulfur batteries. Materials Today: Proceedings, 2018, 5, 22882-22888.	0.9	9
118	3D intermetallic anodes for Lithium-ion batteries. Materials Today: Proceedings, 2018, 5, 22877-22881.	0.9	1
119	Development of a novel gel-like composite polymer separator for 3D Zn/LiFePO ₄ aqueous hybrid ion battery. Materials Today: Proceedings, 2018, 5, 22871-22876.	0.9	0
120	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.	0.9	3
121	Editorial Preface on the Proceedings of the 5th International Conference on Nanomaterials and Advanced Energy Storage Systems, INESS-2017. Materials Today: Proceedings, 2018, 5, 22735-22740.	0.9	0
122	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. ACS Energy Letters, 2018, 3, 2620-2640.	8.8	676
123	Synthesis of Carbon Nanotubes on a Shungite Substrate and Their Use for Lithium-Sulfur Batteries. Journal of Engineering Physics and Thermophysics, 2018, 91, 1295-1301.	0.2	7
124	A mini-review on the development of Si-based thin film anodes for Li-ion batteries. Materials Today Energy, 2018, 9, 49-66.	2.5	92
125	Chemical Dealloying Synthesis of CuS Nanowire-on-Nanoplate Network as Anode Materials for Li-Ion Batteries. Metals, 2018, 8, 252.	1.0	28
126	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.	1.5	10

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127	Synthesis of a Flexible Freestanding Sulfur/Polyacrylonitrile/Graphene Oxide as the Cathode for Lithium/Sulfur Batteries. <i>Polymers</i> , 2018, 10, 399.	2.0	18
128	Three-dimensionally ordered macro/mesoporous TiO ₂ matrix to immobilize sulfur for high performance lithium/sulfur batteries. <i>Nanotechnology</i> , 2018, 29, 415401.	1.3	13
129	Synthesis of Core-Shell Carbon Encapsulated Fe ₂ O ₃ Composite through a Facile Hydrothermal Approach and Their Application as Anode Materials for Sodium-Ion Batteries. <i>Metals</i> , 2018, 8, 461.	1.0	9
130	Three-Dimensionally Hierarchical Graphene Based Aerogel Encapsulated Sulfur as Cathode for Lithium/Sulfur Batteries. <i>Nanomaterials</i> , 2018, 8, 69.	1.9	18
131	Micro-Spherical Sulfur/Graphene Oxide Composite via Spray Drying for High Performance Lithium Sulfur Batteries. <i>Nanomaterials</i> , 2018, 8, 50.	1.9	43
132	β-Na _{0.96} V ₂ O ₅ : A New Competitive Cathode Material for Sodium-Ion Batteries Synthesized by a Soft Chemistry Route. <i>Chemistry of Materials</i> , 2018, 30, 5305-5314.	3.2	25
133	Polyacrylonitrile-Nanofiber-Based Gel Polymer Electrolyte for Novel Aqueous Sodium-Ion Battery Based on a Na ₄ Mn ₉ O ₁₈ Cathode and Zn Metal Anode. <i>Polymers</i> , 2018, 10, 853.	2.0	20
134	Three-Dimensional Hierarchical Porous Structure of PPy/Porous-Graphene to Encapsulate Polysulfides for Lithium/Sulfur Batteries. <i>Nanomaterials</i> , 2018, 8, 606.	1.9	17
135	Development of Three-Dimensional Ni-Sn Anodes for Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
136	On using splitter plates and flow guide-vanes for battery module cooling. <i>Heat and Mass Transfer</i> , 2017, 53, 1-10.	1.2	17
137	Effect of graphene nanosheets on electrochemical performance of Li ₄ Ti ₅ O ₁₂ in lithium-ion capacitors. <i>Ceramics International</i> , 2017, 43, 6554-6562.	2.3	33
138	Three-dimensional carbon cloth-supported ZnO nanorod arrays as a binder-free anode for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	13
139	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries. <i>Solid State Sciences</i> , 2017, 66, 44-49.	1.5	61
140	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> , 2017, 355, 140-146.	4.0	29
141	3D Ordered Macroporous Carbon Encapsulated ZnO Nanoparticles as a High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 2359-2365.	1.7	19
142	Synthesis and Characterization of Silicon Based Anode Materials. <i>Materials Today: Proceedings</i> , 2017, 4, 4502-4511.	0.9	3
143	A new step in the development of Zn/LiFePO ₄ aqueous battery. <i>Materials Today: Proceedings</i> , 2017, 4, 4452-4457.	0.9	2
144	Na ₄ Mn ₉ O ₁₈ /Carbon Nanotube Composite as a High Electrochemical Performance Material for Aqueous Sodium-Ion Batteries. <i>Nanoscale Research Letters</i> , 2017, 12, 569.	3.1	19

#	ARTICLE	IF	CITATIONS
145	Li _{2.0} Ni _{0.67} N, a Promising Negative Electrode Material for Li-Ion Batteries with a Soft Structural Response. <i>Inorganic Chemistry</i> , 2017, 56, 13815-13821.	1.9	5
146	Enhanced electrochemical performance of sulfur/polyacrylonitrile composite by carbon coating for lithium/sulfur batteries. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	27
147	Enhanced cycle performance of Li/S battery with the reduced graphene oxide/activated carbon functional interlayer. <i>Journal of Energy Chemistry</i> , 2017, 26, 1276-1281.	7.1	97
148	MoS ₂ nanopowder as anode material for lithium-ion batteries produced by self-propagating high-temperature synthesis. <i>Materials Today: Proceedings</i> , 2017, 4, 4567-4571.	0.9	16
149	Silicon thin film on graphene coated nickel foam as an anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2017, 258, 800-806.	2.6	36
150	Electrodeposited Ni-Sn intermetallic alloy electrode for 3D sulfur battery. <i>Materials Today: Proceedings</i> , 2017, 4, 4491-4495.	0.9	7
151	Development of a novel SiO ₂ based composite anode material for Li-ion batteries. <i>Materials Today: Proceedings</i> , 2017, 4, 4542-4547.	0.9	21
152	Thiol-modified activated carbon material for sensor technology. <i>Materials Today: Proceedings</i> , 2017, 4, 4599-4602.	0.9	2
153	CVD graphene growth on a surface of liquid gallium. <i>Materials Today: Proceedings</i> , 2017, 4, 4548-4554.	0.9	16
154	Facile Synthesis of SiO ₂ @C Nanoparticles Anchored on MWNT as High-Performance Anode Materials for Li-ion Batteries. <i>Nanoscale Research Letters</i> , 2017, 12, 459.	3.1	37
155	Facile Synthesis of ZnO Nanoparticles on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode Material for Lithium-Ion Batteries. <i>Materials</i> , 2017, 10, 1102.	1.3	12
156	Biomass Waste Inspired Highly Porous Carbon for High Performance Lithium/Sulfur Batteries. <i>Nanomaterials</i> , 2017, 7, 260.	1.9	29
157	Solid Electrolytes for Thin Film Li-Ion Batteries with Novel Si and SiC Based Anodes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
158	Graphene Coated Ni Foam As a Current Collector for N-Type Doped Si Thin Film Anode for Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
159	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> , 2016, , 8439-8446.	0.5	8
160	Simple One-Pot Synthesis of Hexagonal ZnO Nanoplates as Anode Material for Lithium-Ion Batteries. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-6.	1.5	11
161	Synthesis of Multiwalled Carbon Nanotube Aqueous Suspension with Surfactant Sodium Dodecylbenzene Sulfonate for Lithium/Sulfur Rechargeable Batteries. <i>Electrochemistry</i> , 2016, 84, 7-11.	0.6	9
162	In situ sol-gel synthesis of ultrafine ZnO nanocrystals anchored on graphene as anode material for lithium-ion batteries. <i>Ceramics International</i> , 2016, 42, 12371-12377.	2.3	62

#	ARTICLE	IF	CITATIONS
163	A simple approach to synthesize novel sulfur/graphene oxide/multiwalled carbon nanotube composite cathode for high performance lithium/sulfur batteries. <i>Ionics</i> , 2016, 22, 1819-1827.	1.2	8
164	High performance freestanding composite cathode for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016, 217, 242-248.	2.6	50
165	Exploring 3D microstructural evolution in Li-Sulfur battery electrodes using in-situ X-ray tomography. <i>Scientific Reports</i> , 2016, 6, 35291.	1.6	61
166	Electrochemical performance of carbon-encapsulated Fe ₃ O ₄ nanoparticles in lithium-ion batteries: morphology and particle size effects. <i>Electrochimica Acta</i> , 2016, 216, 475-483.	2.6	44
167	Fabrication and Properties of Carbon-Encapsulated Cobalt Nanoparticles over NaCl by CVD. <i>Nanoscale Research Letters</i> , 2016, 11, 432.	3.1	28
168	Effect of VO ₄ ³⁻ substitution for PO ₄ ³⁻ on electrochemical properties of the Li ₃ Fe ₂ (PO ₄) ₃ cathode materials. <i>Electrochimica Acta</i> , 2016, 219, 547-552.	2.6	8
169	Synthesis and electrochemical investigation of highly dispersed ZnO nanoparticles as anode material for lithium-ion batteries. <i>Ionics</i> , 2016, 22, 1387-1393.	1.2	34
170	Synthesis of hierarchical MoS ₂ microspheres composed of nanosheets assembled via facile hydrothermal method as anode material for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	22
171	Examining the effect of nanosized Mg _{0.6} Ni _{0.4} O and Al ₂ O ₃ additives on S/polyaniline cathodes for lithium-sulphur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 407-415.	1.9	18
172	Corn stalk-derived activated carbon with a stacking sheet-like structure as sulfur cathode supporter for lithium/sulfur batteries. <i>Ionics</i> , 2016, 22, 63-69.	1.2	25
173	Temperature Responsive Composite Gel-Polymer Electrolytes for Lithium-Sulfur Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
174	Ni ₃ Sn ₄ Based Anode Materials for Three-Dimensional Lithium/Sulfur Battery. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
175	Effect of Antifreeze Additives on Low Temperature Performance of Lithium-Ion Aqueous Battery. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
176	Development of a Novel Quartz (SiO ₂) Based Composite Anode Material for Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
177	High Performance Sulfur-Composite Cathode for Lithium-Ion Sulfur Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
178	Development of the Next Generation Anode Materials for Super-Efficient Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
179	Flow-Assist Free Zn/NiOOH Battery Prepared By Electrodeposition. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
180	Carbon/Sulfur Composite Cathodes for Flexible Lithium/Sulfur Batteries: Status and Prospects. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	18

#	ARTICLE	IF	CITATIONS
181	A Free-Standing Sulfur/Nitrogen-Doped Carbon Nanotube Electrode for High-Performance Lithium/Sulfur Batteries. <i>Nanoscale Research Letters</i> , 2015, 10, 450.	3.1	51
182	High Performance Zn/LiFePO ₄ Aqueous Rechargeable Battery for Large Scale Applications. <i>Electrochimica Acta</i> , 2015, 152, 505-511.	2.6	118
183	High performance sulfur/nitrogen-doped graphene cathode for lithium/sulfur batteries. <i>Ionics</i> , 2015, 21, 1925-1930.	1.2	23
184	High Mass-Loading of Sulfur-Based Cathode Composites and Polysulfides Stabilization for Rechargeable Lithium/Sulfur Batteries. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	8
185	Nickel Hexacyanoferrate Nanoparticles as a Low Cost Cathode Material for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2015, 184, 58-63.	2.6	64
186	Effect of VO ₄ ³⁻ Substitution for PO ₄ ³⁻ on Electrical Conductivity in the Nasicon Li ₃ Sc ₂ (PO ₄) ₃ Compound. <i>Electrochimica Acta</i> , 2015, 176, 327-333.	2.6	8
187	Assessment of a Shallow Water Model using a Linear Turbulence Model for Obstruction-Induced Discontinuous Flows. <i>Eurasian Chemico-Technological Journal</i> , 2015, 14, 155.	0.3	3
188	Advanced Numerical Solver for Dam-Break Flow Application. <i>Eurasian Chemico-Technological Journal</i> , 2015, 14, 73.	0.3	1
189	Three-dimensional carbon fiber as current collector for lithium/sulfur batteries. <i>Ionics</i> , 2014, 20, 803-808.	1.2	47
190	Poly(vinylidene fluoride-co-hexafluoropropylene)/poly(methylmethacrylate)/nanoclay composite gel polymer electrolyte for lithium/sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1111-1116.	1.2	70
191	Preparation of novel network nanostructured sulfur composite cathode with enhanced stable cycle performance. <i>Journal of Power Sources</i> , 2014, 270, 326-331.	4.0	43
192	Synthesis of Hierarchical Porous Sulfur/Polypyrrole/Multiwalled Carbon Nanotube Composite Cathode for Lithium Batteries. <i>Electrochimica Acta</i> , 2014, 143, 49-55.	2.6	64
193	A simple approach to synthesize nanosized sulfur/graphene oxide materials for high-performance lithium/sulfur batteries. <i>Ionics</i> , 2014, 20, 1047-1050.	1.2	41
194	A novel lithium/sulfur battery based on sulfur/graphene nanosheet composite cathode and gel polymer electrolyte. <i>Nanoscale Research Letters</i> , 2014, 9, 137.	3.1	39
195	Building on a traditional chemical engineering curriculum using computational fluid dynamics. <i>Education for Chemical Engineers</i> , 2014, 9, e85-e93.	2.8	13
196	Effect of Graphene on Sulfur/Polyacrylonitrile Nanocomposite Cathode in High Performance Lithium/Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1194-A1198.	1.3	66
197	Effect of nanosized Mg _{0.6} Ni _{0.4} O prepared by self-propagating high temperature synthesis on sulfur cathode performance in Li/S batteries. <i>Powder Technology</i> , 2013, 235, 248-255.	2.1	72
198	Ternary sulfur/polyacrylonitrile/Mg _{0.6} Ni _{0.4} O composite cathodes for high performance lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 295-301.	5.2	213

#	ARTICLE	IF	CITATIONS
199	Electrochemical performance of lithium gel polymer battery with nanostructured sulfur/carbon composite cathode. <i>Solid State Ionics</i> , 2013, 234, 40-45.	1.3	86
200	Rechargeable hybrid aqueous batteries. <i>Journal of Power Sources</i> , 2012, 216, 222-226.	4.0	197
201	One-step synthesis of branched sulfur/polypyrrole nanocomposite cathode for lithium rechargeable batteries. <i>Journal of Power Sources</i> , 2012, 208, 1-8.	4.0	121
202	Preparation of LiNi _{0.5} Mn _{1.5} O ₄ 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> , 2011, 44, 179-186.	0.3	3
203	Synthesis of spherical LiMnPO ₄ /C composite microparticles. <i>Materials Research Bulletin</i> , 2011, 46, 1311-1314.	2.7	12
204	LiMnPO ₄ Olivine as a Cathode for Lithium Batteries. <i>Open Materials Science Journal</i> , 2011, 5, 222-227.	0.2	9
205	Preparation of carbon coated LiMnPO ₄ powders by a combination of spray pyrolysis with dry ball-milling followed by heat treatment. <i>Advanced Powder Technology</i> , 2010, 21, 187-196.	2.0	72
206	Physical and electrochemical properties of LiMnPO ₄ /C composite cathode prepared with different conductive carbons. <i>Journal of Power Sources</i> , 2010, 195, 7445-7451.	4.0	148
207	Electrochemical performance of nanocomposite LiMnPO ₄ /C cathode materials for lithium batteries. <i>Electrochemistry Communications</i> , 2010, 12, 75-78.	2.3	133
208	LiMg _[sub x] Mn _[sub 1-^x] 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> , 2010, 157, A430.	1.3	70
209	Lithium AlPO ₄ composite polymer battery with nanostructured LiMn ₂ O ₄ cathode. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 295-302.	1.2	7
210	SYNTHESIS OF NANOSTRUCTURED LiM _{0.15} Mn _{1.85} O ₄ (M=Al, Mn, Co, Al, AND Fe) PARTICLES BY SPRAY PYROLYSIS IN A FLUIDIZED BED REACTOR. <i>Chemical Engineering Communications</i> , 2008, 195, 1292-1301.	1.5	1
211	A Nonflammable Lithium Polymer Battery with High Performance for Elevated Temperature Applications. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, A208.	2.2	12
212	Battery performance of nanostructured lithium manganese oxide synthesized by ultrasonic spray pyrolysis at elevated temperature. <i>Journal of Solid State Electrochemistry</i> , 2007, 12, 57-62.	1.2	20
213	Spray pyrolysis synthesis of nanostructured LiF _x Mn _{2-x} O ₄ cathode materials for lithium-ion batteries. <i>Powder Technology</i> , 2005, 159, 55-62.	2.1	32
214	Electrochemical performance of nanostructured LiM _x Mn _{2-x} O ₄ (M=Co and Al) powders at high charge/discharge operations. <i>Solid State Ionics</i> , 2005, 176, 1027-1034.	1.3	79
215	Electrochemical Performance of Lithium Polymer Battery Based on PC/Polymer Borate Ester Plasticizers. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A30.	2.2	5
216	Stability of Lithium Polymer Battery Based on Substituted Spinel Cathode and PEG-Borate Ester/PC Plasticized Polymer Electrolyte. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1533.	1.3	15

#	ARTICLE	IF	CITATIONS
217	Effect of Additions of Organic Sulfonates on the Conductivity of Lithium Conducting Polymer Electrolytes. <i>Electrochemistry</i> , 2001, 69, 312-313.	0.6	0
218	Synthesis and Electrochemical Performance of Polypyrrole-Coated Sulfur/Multi-Walled Carbon Nanotube Composite Cathode Materials for Lithium/Sulfur Batteries. <i>Materials Science Forum</i> , 0, 847, 33-38.	0.3	0
219	Effectiveness of a Helix Tube to Water Cool a Battery Module. , 0, , .		0
220	Solid-State Nanobatteries. <i>ACS Symposium Series</i> , 0, , 201-248.	0.5	1