

Nurzhan Umirov

List of Publications by Year in descending order

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31
papers

513
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840776

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32
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32
times ranked

897
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithium dendritic growth inhibitor enabling high capacity, dendrite-free, and high current operation for rechargeable lithium batteries. <i>Energy Storage Materials</i> , 2022, 46, 76-89.	18.0	14
2	Facile fabrication of polyacrylonitrile-derived porous carbon beads via electron beam irradiation as anode materials for Li-ion batteries. <i>International Journal of Energy Research</i> , 2021, 45, 9530-9540.	4.5	6
3	Understanding of Open-circuit voltage and Volume Change depending on the Electrochemical Properties of Anode Materials for Li-ion battery. <i>Han-gug Jeonji Haghoeji</i> , 2021, 1, 1-5.	0.1	1
4	Li-incorporated porous carbon monoliths derived from carboxymethyl cellulose as anode material for high power lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 506, 230050.	7.8	10
5	Grain size effect of nanocrystalline-Si embedded in buffering alloy-matrix as anode for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160558.	5.5	5
6	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.	2.7	1
7	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
8	Novel silane-treated polyacrylonitrile as a promising negative electrode binder for LIBs. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152481.	5.5	12
9	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.	4.1	1
10	Pragmatic Approach to Design Silicon Alloy Anode by the Equilibrium Method. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17406-17414.	8.0	10
11	Analysis of intrinsic properties of Li ₄ Ti ₅ O ₁₂ using single-particle technique. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113514.	3.8	19
12	Microalgae-derived hollow carbon-MoS ₂ composite as anode for lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 106-114.	5.8	25
13	The Electrochemical Performances of n-Type Extended Lattice Spaced Si Negative Electrodes for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 389.	3.6	15
14	Microstructure and electrochemical properties of rapidly solidified Si-Ni alloys as anode for lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 351-360.	5.8	27
15	Thermal and Structural Stabilities of Li _x CoO ₂ cathode for Li Secondary Battery Studied by a Temperature Programmed Reduction. <i>Eurasian Chemico-Technological Journal</i> , 2019, , 3.	0.6	9
16	Novel silicon nanowire film on copper foil as high performance anode for lithium-ion batteries. <i>Ionics</i> , 2018, 24, 373-378.	2.4	22
17	Fundamental Approach to Capacity Prediction of Si-Alloys as Anode Material for Li-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2018, 9, 51-59.	2.2	9
18	(Invited) Microstructure and Capacity Design of Si-Silicide Alloys As a High-Performance Anode for Li Secondary Batteries. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0

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19	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.	4.8	33
20	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.	4.0	5
21	Solid Electrolytes for Thin Film Li-Ion Batteries with Novel Si and SiC Based Anodes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
22	High performance freestanding composite cathode for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016, 217, 242-248.	5.2	50
23	Effect of Antifreeze Additives on Low Temperature Performance of Lithium-Ion Aqueous Battery. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
24	High Performance Sulfur-Composite Cathode for Lithium-Ion Sulfur Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
25	A Free-Standing Sulfur/Nitrogen-Doped Carbon Nanotube Electrode for High-Performance Lithium/Sulfur Batteries. <i>Nanoscale Research Letters</i> , 2015, 10, 450.	5.7	51
26	High Performance Zn/LiFePO ₄ Aqueous Rechargeable Battery for Large Scale Applications. <i>Electrochimica Acta</i> , 2015, 152, 505-511.	5.2	118
27	Nickel Hexacyanoferrate Nanoparticles as a Low Cost Cathode Material for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2015, 184, 58-63.	5.2	64
28	Free-Standing and Flexible Carbon Membrane for Lithium-Sulphur Batteries. <i>ECS Meeting Abstracts</i> , 2015, , .	0.0	0
29	Investigation of Using Sulfur-Containing Gases in Low-Temperature Fuel Cell at Sulfuric Acid Production Site. <i>Eurasian Chemico-Technological Journal</i> , 2014, 16, .	0.6	1
30	Rechargeable Aqueous Lithium-Ion Battery Zn/LiFePO ₄ for Large Scale Energy Storage. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
31	Relationship between Mechanical and Electrochemical Property in Silicon Alloy Designed by Grain Size as Anode for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 0, , .	2.9	3