

Daria Mikhailova

List of Publications by Year in descending order

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papers

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393982

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docs citations

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times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	Lifetime vs. rate capability: Understanding the role of FEC and VC in high-energy Li-ion batteries with nano-silicon anodes. <i>Energy Storage Materials</i> , 2017, 6, 26-35.	9.5	166
2	Uniform Zn Deposition Achieved by Ag Coating for Improved Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16869-16875.	4.0	129
3	Temperature and composition dependence of crystal structures and magnetic and electronic properties of the double perovskites $\text{La}_{1-x}\text{Sr}_x\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2010, 82, 080407.	1.1	74
4	Magnetism and spin-orbit coupling in Ir-based double perovskites $\text{La}_{1-x}\text{Sr}_x\text{Ir}_2\text{O}_7$. <i>Physical Review B</i> , 2010, 82, 080408.	1.1	56
5	XPS investigations of electrolyte/electrode interactions for various Li-ion battery materials. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 691-696.	1.9	48
6	Surface and Electrochemical Studies on Silicon Diphosphide as Easy-to-Handle Anode Material for Lithium-Based Batteries—The Phosphorus Path. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7096-7106.	4.0	39
7	3d-Transition metal doped spinels as high-voltage cathode materials for rechargeable lithium-ion batteries. <i>Progress in Solid State Chemistry</i> , 2014, 42, 128-148.	3.9	35
8	Electrochemical and structural investigations of different polymorphs of TiO ₂ in magnesium and hybrid lithium/magnesium batteries. <i>Electrochimica Acta</i> , 2018, 277, 20-29.	2.6	35
9	3D Ni/Na metal anode for improved sodium metal batteries. <i>Materials Letters</i> , 2020, 275, 128206.	1.3	35
10	A facile method to stabilize sodium metal anodes towards high-performance sodium batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9038-9047.	5.2	34
11	Magnetic properties and crystal structure of Sr _{1-x} Co ₂ O ₇ and Sr _{1-x} Co ₂ O ₆ . <i>Physical Review B</i> , 2010, 82, 080409.	1.1	30
12	Polypyrrole Wrapped V ₂ O ₅ Nanowires Composite for Advanced Aqueous Zinc-Ion Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	30
13	Li ₃ O ₈ -Based Functional Separator Coating as Effective Polysulfide Mediator for Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 2893-2899.	2.5	27
14	Silicon monophosphide as a possible lithium battery anode material. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19974-19978.	5.2	26
15	Relation between the Co-O bond lengths and the spin state of Co in layered Cobaltates: a high-pressure study. <i>Scientific Reports</i> , 2017, 7, 3656.	1.6	25
16	A Facile Chemical Method Enabling Uniform Zn Deposition for Improved Aqueous Zn-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 764.	1.9	25
17	Possible Piezoelectric Materials CsM _{0.5} (MoO ₄) ₃ (M = Al, Sc, V, Cr, Fe, Ga, In) and CsCrTi _{0.5} (MoO ₄) ₃ . Structure and Physical Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1763-1773.	1.5	24
18	Operando Studies on the NaNi _{0.5} Ti _{0.5} O ₂ Cathode for Na-Ion Batteries: Elucidating Titanium as a Structure Stabilizer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33923-33930.	4.0	23

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19	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO ₂ upon Li Extraction and Insertion. <i>Inorganic Chemistry</i> , 2016, 55, 7079-7089.	1.9	20
20	Activated Carbon Derived from Cellulose and Cellulose Acetate Microspheres as Electrode Materials for Symmetric Supercapacitors in Aqueous Electrolytes. <i>Energy & Fuels</i> , 2021, 35, 12653-12665.	2.5	20
21	Structure and properties of $\text{Li}_{1-x}\text{Na}_x\text{FeO}_2$ -type ternary sodium iridates. <i>Journal of Solid State Chemistry</i> , 2014, 210, 195-205.	1.4	18
22	Structural Changes in the LiCrMnO ₄ Cathode Material during Electrochemical Li Extraction and Insertion. <i>Journal of the Electrochemical Society</i> , 2013, 160, A3082-A3089.	1.3	16
23	Delithiation/relithiation process of LiCoMnO ₄ spinel as 5V electrode material. <i>Journal of Power Sources</i> , 2017, 371, 55-64.	4.0	16
24	Charge Transfer and Structural Anomaly in Stoichiometric Layered Perovskite Sr ₂ Co _{0.5} Ir _{0.5} O ₄ . <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 587-595.	1.0	16
25	Probing the $J_{\text{eff}}=0$ ground state and the Van Vleck paramagnetism of the Ir ⁵⁺ ions in layered Sr ₂ Co _{0.5} Ir _{0.5} O ₄ . <i>Physical Review B</i> , 2018, 97, .	1.1	16
26	Designing hierarchical MnO/polyppyrrrole heterostructures to couple polysulfides adsorption and electrocatalysis in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2022, 520, 230885.	4.0	16
27	The Role of Oxygen Stoichiometry on Phase Stability, Structure, and Magnetic Properties of Sr ₂ CoIrO ₆ . <i>Inorganic Chemistry</i> , 2010, 49, 10348-10356.	1.9	15
28	Orthomolybdates in the Cs ₄ Fe ^{II,III} Mo ^{VI} O System: Cs ₄ Fe(MoO ₄) ₃ , Cs ₂ Fe ₂ (MoO ₄) ₃ and Cs ₅ (MoO ₄) ₇ . <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2832-2841.	1.0	15
29	Electrochemical behavior of LiV ₃ O ₈ positive electrode in hybrid Li,Na-ion batteries. <i>Journal of Power Sources</i> , 2018, 373, 1-10.	4.0	15
30	Operando Studies of Antiperovskite Lithium Battery Cathode Material (Li ₂ Fe)SO ₄ . <i>ACS Applied Energy Materials</i> , 2018, 1, 6593-6599.	2.5	15
31	Dendrite-free and corrosion-resistant sodium metal anode for enhanced sodium batteries. <i>Applied Surface Science</i> , 2022, 600, 154168.	3.1	15
32	Intricacies of the spin state in $\text{Cs}_2\text{Fe}(\text{MoO}_4)_3$. <i>Physical Review B</i> , 2017, 95, .	1.1	14
33	Operation Mechanism in Hybrid Mg-Li Batteries with TiNb ₂ O ₇ Allowing Stable High-Rate Cycling. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6309-6321.	4.0	13
34	In-Depth Study of Li ₄ Ti ₅ O ₁₂ Performing beyond Conventional Operating Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37227-37238.	4.0	12
35	Recent Advances in Stabilization of Sodium Metal Anode in Contact with Organic Liquid and Solid-State Electrolytes. <i>Energy Technology</i> , 2022, 10, .	1.8	11
36	Oxygen-driven competition between low-dimensional structures of Sr ₃ CoMo ₆ and Sr ₃ CoMo ₇ with M = Ru, Ir. <i>Dalton Transactions</i> , 2014, 43, 13883.	1.6	10

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37	Irreversible Made Reversible: Increasing the Electrochemical Capacity by Understanding the Structural Transformations of $\text{Na}_{0.5}\text{Co}_{0.5}\text{Ti}_{0.5}\text{O}_2$. ACS Applied Materials & Interfaces, 2018, 10, 36108-36119.	4.0	10
38	Synthesis of $(\text{Li}_2\text{Fe}_{1-y}\text{Mn}_y)\text{SO}$ Antiperovskites with Comprehensive Investigations of $(\text{Li}_2\text{Fe}_{0.5}\text{Mn}_{0.5})\text{SO}$ as Cathode in Li-ion Batteries. Inorganic Chemistry, 2020, 59, 15626-15635.	1.9	10
39	Studies of $\text{Li}_2\text{Fe}_{0.9}\text{Mn}_{0.1}\text{SO}$ Antiperovskite Materials for Lithium-ion Batteries: The Role of Partial Fe^{2+} to M^{2+} Substitution. Frontiers in Energy Research, 2021, 9, .	1.2	10
40	Superior high-temperature rate performance of LiFePO_4 cathode: The stabilizing effect of a multicomponent gel biopolymer binder. Journal of Power Sources, 2022, 521, 230955.	4.0	10
41	Na^{+} /vacancy disordered manganese-based oxide cathode with ultralow strain enabled by tuning charge distribution. Journal of Materials Chemistry A, 2022, 10, 10391-10399.	5.2	10
42	Structure, Magnetism, and Valence States of Cobalt and Platinum in Quasi-One-Dimensional Oxides A_3CoPtO_6 with $\text{A} = \text{Ca}, \text{Sr}$. Journal of Physical Chemistry C, 2014, 118, 5463-5469.	1.5	9
43	Mixed phase sodium manganese oxide as cathode for enhanced aqueous zinc-ion storage. Chinese Journal of Chemical Engineering, 2020, 28, 2214-2220.	1.7	9
44	$\text{Cr}_x\text{Re}_{1-x}\text{O}_2$ oxides with different rutile-like structures: changes in the electronic configuration and resulting physical properties. Journal of Solid State Chemistry, 2009, 182, 1506-1514.	1.4	8
45	The crystal growth and properties of novel magnetic double molybdate $\text{RbFe}_5(\text{MoO}_4)_7$ with mixed $\text{Fe}^{3+}/\text{Fe}^{2+}$ states and 1D negative thermal expansion. CrystEngComm, 2021, 23, 3297-3307.	1.3	7
46	Tuning the electrochemical properties by anionic substitution of Li-rich antiperovskite $(\text{Li}_2\text{Fe})\text{S}_2\text{SeO}$ cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23095-23105.	5.2	7
47	Metallic Re bond formation in different MRe_2O_6 ($\text{MFe}, \text{Co}, \text{Ni}$) rutile-like polymorphs: The role of temperature in high-pressure synthesis. Journal of Solid State Chemistry, 2009, 182, 364-373.	1.4	5
48	TiNb_2O_7 and $\text{VNb}_9\text{O}_{25}$ of ReO_3 Type in Hybrid Mg - Li Batteries: Electrochemical and Interfacial Insights. Journal of Physical Chemistry C, 2020, 124, 25239-25248.	1.5	5
49	Ordered Ti-Fe-O nanotubes as additive-free anodes for lithium ion batteries. Applied Materials Today, 2020, 20, 100676.	2.3	5
50	Highly Efficient Multicomponent Gel Biopolymer Binder Enables Ultrafast Cycling and Applicability in Diverse Battery Formats. ACS Applied Materials & Interfaces, 2020, 12, 53827-53840.	4.0	5
51	Composition-dependent charge transfer and phase separation in the $\text{V}_x\text{Re}_x\text{O}_2$ solid solution. Dalton Transactions, 2017, 46, 1606-1617.	1.6	3
52	A Highly Conductive Gel Polymer Electrolyte for Li - Mg Hybrid Batteries. ACS Applied Energy Materials, 2021, 4, 1906-1914.	2.5	3
53	Diethylzinc-Assisted Atomic Surface Reduction to Stabilize Li and Mn-Rich NCM. ACS Applied Materials & Interfaces, 2021, 13, 44470-44478.	4.0	3
54	Structural and Electrochemical Properties of Layered $\text{P}_2\text{-Na}_{0.8}\text{Co}_{0.8}\text{Ti}_{0.2}\text{O}_2$ Cathode in Sodium-Ion Batteries. Energies, 2022, 15, 3371.	1.6	3

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55	Thermal stability of $\text{Li}_{1-x}\text{M}_{0.5}\text{Mn}_{1.5}\text{O}_4$ (M = Fe, Co, Ni) cathodes in different states of delithiation x . RSC Advances, 2013, , .	1.7	2
56	Synthesis, Characterization, and Electrochemistry of Layered Chalcogenides LiCu_xCh_y ($\text{Ch} = \text{S}, \text{Se}, \text{Te}$). Journal of Electrochemical Society, 2019, , .	1.95	2
57	Solid Solution $\text{Sr}_{2-x}\text{Sc}_{1+x}\text{Re}_6\text{O}_{26}$ with a Perovskite-Like Structure: Phase Transitions and Magnetic Properties. European Journal of Inorganic Chemistry, 2010, 2010, 1196-1206.	1.0	1
58	Self-Ordered TiO_2 Nanotubes Prepared By Anodization in Fluorine-Free Electrolyte As Additive-Free Anode for Lithium-Ion Microbatteries. ECS Meeting Abstracts, 2019, , .	0.0	1
59	Copper(II) perrhenate $\text{Cu}(\text{C}_3\text{H}_7\text{OH})_2(\text{ReO}_4)_2$: Synthesis from isopropanol and CuReO_4 , structure and properties. Journal of Solid State Chemistry, 2015, 232, 264-269.	1.4	0
60	Correction: Composition-dependent charge transfer and phase separation in the $\text{V}_{1-x}\text{Re}_x\text{O}_2$ solid solution. Dalton Transactions, 2017, 46, 16711-16711.	1.6	0
61	Comparison of Layered $\text{Li}(\text{Li}_{0.2}\text{Rh}_{0.8})\text{O}_2$ and LiRhO_2 upon Li Removal: Stabilizing Effect of Li Substitution. Inorganic Chemistry, 2020, 59, 9108-9115.	1.9	0
62	Studies on Full Na-Ion Batteries with a Hard Carbon Anode and Oxide Cathode Materials. ECS Meeting Abstracts, 2019, , .	0.0	0
63	Lattice Analysis By Synchrotron Powder Diffraction on High Voltage Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$. ECS Meeting Abstracts, 2019, , .	0.0	0
64	Application of the Hybrid-Ion Battery Concept to Selected Oxide Systems. ECS Meeting Abstracts, 2019, , .	0.0	0
65	Synthesis and Investigation of Surface-Modified Silicon Nanoparticles As Advanced Anodes for Li-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0