Daria Mikhailova

List of Publications by Year in descending order

65 papers	1,262 citations	393982 19 h-index	395343 33 g-index
65 all docs	65 docs citations	65 times ranked	1904 citing authors

#	Article	IF	Citations
1	Superior high-temperature rate performance of LiFePO4 cathode: The stabilizing effect of a multicomponent gel biopolymer binder. Journal of Power Sources, 2022, 521, 230955.	4.0	10
2	Designing hierarchical MnO/polypyrrole heterostructures to couple polysulfides adsorption and electrocatalysis in lithium-sulfur batteries. Journal of Power Sources, 2022, 520, 230885.	4.0	16
3	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
4	Recent Advances in Stabilization of Sodium Metal Anode in Contact with Organic Liquid and Solidâ€State Electrolytes. Energy Technology, 2022, 10, .	1.8	11
5	Structural and Electrochemical Properties of Layered P2-Na0.8Co0.8Ti0.2O2 Cathode in Sodium-Ion Batteries. Energies, 2022, 15, 3371.	1.6	3
6	Dendrite-free and corrosion-resistant sodium metal anode for enhanced sodium batteries. Applied Surface Science, 2022, 600, 154168.	3.1	15
7	The crystal growth and properties of novel magnetic double molybdate RbFe₅(MoO₄)₇with mixed Fe³⁺/Fe²⁺states and 1D negative thermal expansion. CrystEngComm, 2021, 23, 3297-3307.	1.3	7
8	A facile method to stabilize sodium metal anodes towards high-performance sodium batteries. Journal of Materials Chemistry A, 2021, 9, 9038-9047.	5.2	34
9	Operation Mechanism in Hybrid Mgâ€“Li Batteries with TiNb₂O₇ Allowing Stable High-Rate Cycling. ACS Applied Materials & Interfaces, 2021, 13, 6309-6321.	4.0	13
10	A Highly Conductive Gel Polymer Electrolyte for Liâ€“Mg Hybrid Batteries. ACS Applied Energy Materials, 2021, 4, 1906-1914.	2.5	3
11	A Facile Chemical Method Enabling Uniform Zn Deposition for Improved Aqueous Zn-Ion Batteries. Nanomaterials, 2021, 11, 764.	1.9	25
12	Studies of Li2Fe0.9M0.1SO Antiperovskite Materials for Lithiumâ€“Ion Batteries: The Role of Partial Fe2+ to M2+ Substitution. Frontiers in Energy Research, 2021, 9, .	1.2	10
13	Uniform Zn Deposition Achieved by Ag Coating for Improved Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 16869-16875.	4.0	129
14	Activated Carbon Derived from Cellulose and Cellulose Acetate Microspheres as Electrode Materials for Symmetric Supercapacitors in Aqueous Electrolytes. Energy & Fuels, 2021, 35, 12653-12665.	2.5	20
15	Diethylzinc-Assisted Atomic Surface Reduction to Stabilize Li and Mn-Rich NCM. ACS Applied Materials & Interfaces, 2021, 13, 44470-44478.	4.0	3
16	Tuning the electrochemical properties by anionic substitution of Li-rich antiperovskite (Li₂Fe)S_{1â^’x}Se_xO cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23095-23105.	5.2	7
17	Synthesis of (Li2Fe1â€“yMny)SO Antiperovskites with Comprehensive Investigations of (Li2Fe0.5Mn0.5)SO as Cathode in Li-ion Batteries. Inorganic Chemistry, 2020, 59, 15626-15635.	1.9	10
18	In-Depth Study of Li₄Ti₅O₁₂ Performing beyond Conventional Operating Conditions. ACS Applied Materials & Interfaces, 2020, 12, 37227-37238.	4.0	12

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19	LiV₃O₈-Based Functional Separator Coating as Effective Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 2893-2899.	2.5	27
20	TiNb₂O₇ and VNb₉O₂₅ of ReO₃ Type in Hybrid Mgâ€“Li Batteries: Electrochemical and Interfacial Insights. Journal of Physical Chemistry C, 2020, 124, 25239-25248.	1.5	5
21	Polypyrrole Wrapped V2O5 Nanowires Composite for Advanced Aqueous Zinc-Ion Batteries. Frontiers in Energy Research, 2020, 8, .	1.2	30
22	Ordered Ti-Fe-O nanotubes as additive-free anodes for lithium ion batteries. Applied Materials Today, 2020, 20, 100676.	2.3	5
23	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
24	Comparison of Layered Li(Li0.2Rh0.8)O2 and LiRhO2 upon Li Removal: Stabilizing Effect of Li Substitution. Inorganic Chemistry, 2020, 59, 9108-9115.	1.9	0
25	3D Ni/Na metal anode for improved sodium metal batteries. Materials Letters, 2020, 275, 128206.	1.3	35
26	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
27	Operando Studies on the NaNi_{0.5}Ti_{0.5}O₂ Cathode for Na-Ion Batteries: Elucidating Titanium as a Structure Stabilizer. ACS Applied Materials & Interfaces, 2019, 11, 33923-33930.	4.0	23
28	Studies on Full Na-Ion Batteries with a Hard Carbon Anode and Oxide Cathode Materials. ECS Meeting Abstracts, 2019, , .	0.0	0
29	Lattice Analysis By Synchrotron Powder Diffraction on High Voltage Spinel LiNi0.5Mn1.5O4. ECS Meeting Abstracts, 2019, , .	0.0	0
30	Self-Ordered TiO2 Nanotubes Prepared By Anodization in Fluorine-Free Electrolyte As Additive-Free Anode for Lithium-Ion Microbatteries. ECS Meeting Abstracts, 2019, , .	0.0	1
31	Application of the Hybrid-Ion Battery Concept to Selected Oxide Systems. ECS Meeting Abstracts, 2019, , .	0.0	0
32	Synthesis and Investigation of Surface-Modified Silicon Nanoparticles As Advanced Anodes for Li-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
33	Surface and Electrochemical Studies on Silicon Diphosphide as Easy-to-Handle Anode Material for Lithium-Based Batteriesâ€”the Phosphorus Path. ACS Applied Materials & Interfaces, 2018, 10, 7096-7106.	4.0	39
34	Electrochemical and structural investigations of different polymorphs of TiO2 in magnesium and hybrid lithium/magnesium batteries. Electrochimica Acta, 2018, 277, 20-29.	2.6	35
35	Electrochemical behavior of LiV3O8 positive electrode in hybrid Li,Naâ€“ion batteries. Journal of Power Sources, 2018, 373, 1-10.	4.0	15
36	Silicon monophosphide as a possible lithium battery anode material. Journal of Materials Chemistry A, 2018, 6, 19974-19978.	5.2	26

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37	Irreversible Made Reversible: Increasing the Electrochemical Capacity by Understanding the Structural Transformations of Na_xCo_{0.5}Ti_{0.5}O₂. ACS Applied Materials & Interfaces, 2018, 10, 36108-36119.	4.0	10
38	Operando Studies of Antiperovskite Lithium Battery Cathode Material (Li₂Fe)SO. ACS Applied Energy Materials, 2018, 1, 6593-6599.	2.5	15
39	Synthesis, Characterization, and Electrochemistry of Layered Chalcogenides LiCuCh (Ch) Tj ETQq1 1 0.784314 rgBT /Over	1.9	2
40	Probing the Jeff=0 ground state and the Van Vleck paramagnetism of the Ir5+ ions in layered Sr2Co0.5Ir0.5O4. Physical Review B, 2018, 97, .	1.1	16
41	Composition-dependent charge transfer and phase separation in the V_{1â^'x}Re_xO₂solid solution. Dalton Transactions, 2017, 46, 1606-1617.	1.6	3
42	Delithiation/relithiation process of LiCoMnO4 spinel as 5ÂV electrode material. Journal of Power Sources, 2017, 371, 55-64.	4.0	16
43	Intricacies of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Co</mml:mi></mml:mrow><mml:mrow><m spin state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:r Physical Review B, 2017, 95, .	1.1	14
44	Correction: Composition-dependent charge transfer and phase separation in the V1â^'xRexO2 solid solution. Dalton Transactions, 2017, 46, 16711-16711.	1.6	0
45	Relation between the Co-O bond lengths and the spin state of Co in layered Cobaltates: a high-pressure study. Scientific Reports, 2017, 7, 3656.	1.6	25
46	Charge Transfer and Structural Anomaly in Stoichiometric Layered Perovskite Sr₂Co_{0.5}Ir_{0.5}O₄. European Journal of Inorganic Chemistry, 2017, 2017, 587-595.	1.0	16
47	Lifetime vs. rate capability: Understanding the role of FEC and VC in high-energy Li-ion batteries with nano-silicon anodes. Energy Storage Materials, 2017, 6, 26-35.	9.5	166
48	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO2 upon Li Extraction and Insertion. Inorganic Chemistry, 2016, 55, 7079-7089.	1.9	20
49	Copper(II) perrhenate Cu(C3H7OH)2(ReO4)2: Synthesis from isopropanol and CuReO4, structure and properties. Journal of Solid State Chemistry, 2015, 232, 264-269.	1.4	0
50	3d-Transition metal doped spinels as high-voltage cathode materials for rechargeable lithium-ion batteries. Progress in Solid State Chemistry, 2014, 42, 128-148.	3.9	35
51	Possible Piezoelectric Materials CsMZr_{0.5}(MoO₄)₃ (M = Al, Sc, V, Cr, Fe, Ga, In) and CsCrTi_{0.5}(MoO₄)₃: Structure and Physical Properties. Journal of Physical Chemistry C, 2014, 118, 1763-1773.	1.5	24
52	Oxygen-driven competition between low-dimensional structures of Sr₃CoMO₆and Sr₃CoMO_{7â^'Î´}with M = Ru, Ir. Dalton Transactions, 2014, 43, 13883.	1.6	10
53	Structure, Magnetism, and Valence States of Cobalt and Platinum in Quasi-One-Dimensional Oxides A₃CoPtO₆ with A = Ca, Sr. Journal of Physical Chemistry C, 2014, 118, 5463-5469.	1.5	9
54	Structure and properties of Î±-NaFeO2-type ternary sodium iridates. Journal of Solid State Chemistry, 2014, 210, 195-205.	1.4	18

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55	Structural Changes in the LiCrMnO4Cathode Material during Electrochemical Li Extraction and Insertion. Journal of the Electrochemical Society, 2013, 160, A3082-A3089.	1.3	16
56	Thermal stability of Li1-Î”M0.5Mn1.5O4 (M = Fe, Co, Ni) cathodes in different states of delithiation Î”. RSC Advances, 2013, , .	1.7	2
57	Magnetism and spin-orbit coupling in Ir-based double perovskites La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>CoIrO<mml:math	1.1	56
58	Magnetic properties and crystal structure of Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>CoIrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>and Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	30
59	XPS investigations of electrolyte/electrode interactions for various Li-ion battery materials. Analytical and Bioanalytical Chemistry, 2011, 400, 691-696.	1.9	48
60	Orthomolybdates in the Csâ€“Fe^{II,III}â€“Moâ€“O System: Cs₄Fe(MoO₄)₃, Cs₂Fe₂(MoO₄)₃ and CsFe₅(MoO₄)₇. European Journal of Inorganic Chemistry, 2011, 2011, 2832-2841.	1.0	15
61	Solid Solution Sr₂Sc_{1+<i>x</i>}Re_{1â€“<i>x</i>}O₆ with a PerovskiteÂâ€Like Structure: Phase Transitions and Magnetic Properties. European Journal of Inorganic Chemistry, 2010, 2010, 1196-1206.	1.0	1
62	Temperature and composition dependence of crystal structures and magnetic and electronic properties of the double perovskites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn Physical Review B, 2010, 82, .	1.1	74
63	The Role of Oxygen Stoichiometry on Phase Stability, Structure, and Magnetic Properties of Sr2CoIrO6â^’Î´. Inorganic Chemistry, 2010, 49, 10348-10356.	1.9	15
64	CrxRe1â^’xO2 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
65	Metallic Reâ€“Re bond formation in different MRe2O6 (MFe, Co, Ni) rutile-like polymorphs: The role of temperature in high-pressure synthesis. Journal of Solid State Chemistry, 2009, 182, 364-373.	1.4	5