

Ekaterina Pomerantseva

List of Publications by Year in descending order

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47
papers

4,321
citations

331670

21
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289244

40
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47
all docs

47
docs citations

47
times ranked

6409
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transformation and electrochemical charge storage properties of vanadium oxide/carbon composite electrodes synthesized via integration with dopamine. <i>Journal of the American Ceramic Society</i> , 2023, 106, 120-132.	3.8	9
2	Composite Li-ion battery cathodes formed via integration of carbon nanotubes or graphene nanoplatelets into chemical preintercalation synthesis of bilayered vanadium oxides. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163929.	5.5	12
3	Hierarchically structured MoO ₂ /dopamine-derived carbon spheres as intercalation electrodes for lithium-ion batteries. <i>Materials Today Chemistry</i> , 2022, 24, 100783.	3.5	7
4	The Dopamine Assisted Synthesis of MoO ₃ /Carbon Electrodes With Enhanced Capacitance in Aqueous Electrolyte. <i>Frontiers in Chemistry</i> , 2022, 10, 873462.	3.6	3
5	Chemical preintercalation synthesis approach for the formation of new layered tungsten oxides. <i>Journal of Materials Science</i> , 2022, 57, 7814-7826.	3.7	2
6	Revealing the Atomic Structures of Exposed Lateral Surfaces for Polymorphic Manganese Dioxide Nanowires. <i>Small Structures</i> , 2021, 2, 2000091.	12.0	18
7	Free-standing bilayered vanadium oxide films synthesized by liquid exfoliation of chemically preintercalated δ -Li _x V ₂ O ₅ ·nH ₂ O. <i>Materials Advances</i> , 2021, 2, 2711-2718.	5.4	3
8	Effect of 1D diffusion channel size and ionic content on Li ⁺ ion and Na ⁺ ion diffusion in tunnel manganese oxides. <i>Materialia</i> , 2021, 15, 101013.	2.7	2
9	Synthesis strategies toward improved ordering of [MnO ₆] octahedra in tunnel structured 2 \times 1 \times 3 and 2 \times 1 \times 4 MnO ₂ . <i>Scripta Materialia</i> , 2021, 195, 113713.	5.2	8
10	Annealing-Assisted Enhancement of Electrochemical Stability of Na-Preintercalated Bilayered Vanadium Oxide Electrodes in Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 1063-1075.	5.1	20
11	MXene-Derived Bilayered Vanadium Oxides with Enhanced Stability in Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 10892-10901.	5.1	21
12	Rational Design of Titanium Carbide MXene Electrode Architectures for Hybrid Capacitive Deionization. <i>Energy and Environmental Materials</i> , 2020, 3, 398-404.	12.8	42
13	The effect of chemically preintercalated alkali ions on the structure of layered titanates and their electrochemistry in aqueous energy storage systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18220-18231.	10.3	8
14	Improving Electronic Conductivity of Layered Oxides through the Formation of Two-Dimensional Heterointerface for Intercalation Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 3835-3844.	5.1	21
15	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. <i>Nano Energy</i> , 2019, 64, 103961.	16.0	78
16	Creation of controllable cationic and anionic defects in tunnel manganese oxide nanowires for enhanced oxygen evolution reaction. <i>Polyhedron</i> , 2019, 171, 32-40.	2.2	5
17	Tunable nanomechanical performance regimes in ceramic nanowires. <i>Nanotechnology</i> , 2019, 30, 47LT02.	2.6	6
18	Brittle fracture to recoverable plasticity: polytypism-dependent nanomechanics in todorokite-like nanobelts. <i>Nanoscale Advances</i> , 2019, 1, 357-366.	4.6	9

#	ARTICLE	IF	CITATIONS
19	Deciphering the Atomic Patterns Leading to MnO ₂ Polymorphism. <i>CheM</i> , 2019, 5, 1793-1805.	11.7	46
20	Energy storage: The future enabled by nanomaterials. <i>Science</i> , 2019, 366, .	12.6	1,119
21	Improved electrochemical cycling stability of intercalation battery electrodes via control of material morphology. <i>Ionics</i> , 2019, 25, 493-502.	2.4	8
22	Influence of operating conditions and cathode parameters on desalination performance of hybrid CDI systems. <i>Desalination</i> , 2019, 452, 1-8.	8.2	36
23	Ordering Heterogeneity of [MnO ₆] Octahedra in Tunnel-Structured MnO ₂ and Its Influence on Ion Storage. <i>Joule</i> , 2019, 3, 471-484.	24.0	123
24	Effect of annealing on electrochemical stability of chemically preintercalated bilayered vanadium oxide cathodes in batteries. , 2019, , .		0
25	HCDI performance of Na-2x3 and Na-2x4 nanowires for water desalination. , 2019, , .		0
26	Mesoporous MXene powders synthesized by acid induced crumpling and their use as Na-ion battery anodes. <i>Materials Research Letters</i> , 2018, 6, 230-235.	8.7	115
27	Alkali-induced crumpling of Ti ₃ C ₂ T _x (MXene) to form 3D porous networks for sodium ion storage. <i>Chemical Communications</i> , 2018, 54, 4533-4536.	4.1	135
28	Chemically Preintercalated Bilayered K _x V ₂ O ₅ ·nH ₂ O Nanobelts as a High-Performing Cathode Material for K-Ion Batteries. <i>ACS Energy Letters</i> , 2018, 3, 562-567.	17.4	104
29	Tunnel structured manganese oxide nanowires as redox active electrodes for hybrid capacitive deionization. <i>Nano Energy</i> , 2018, 44, 476-488.	16.0	145
30	Prediction of optimal structural water concentration for maximized performance in tunnel manganese oxide electrodes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9480-9487.	2.8	12
31	Bilayered vanadium oxides by chemical pre-intercalation of alkali and alkali-earth ions as battery electrodes. <i>Energy Storage Materials</i> , 2018, 11, 30-37.	18.0	108
32	Ion Removal Performance, Structural/Compositional Dynamics, and Electrochemical Stability of Layered Manganese Oxide Electrodes in Hybrid Capacitive Deionization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32313-32322.	8.0	67
33	Voltage-Gated Ions Sieving through 2D MXene Ti ₃ C ₂ T _x Membranes. <i>ACS Applied Nano Materials</i> , 2018, 1, 3644-3652.	5.0	102
34	High-Capacity All-Solid-State Sodium Metal Battery with Hybrid Polymer Electrolytes. <i>Advanced Energy Materials</i> , 2018, 8, 1801885.	19.5	87
35	Tunnel Intergrowth Structures in Manganese Dioxide and Their Influence on Ion Storage. <i>Microscopy and Microanalysis</i> , 2018, 24, 1500-1501.	0.4	1
36	Layered manganese oxides as electrodes for water desalination via hybrid capacitive deionization. , 2018, , .		0

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37	Synthesis of hybrid layered electrode materials via chemical pre-intercalation of linear organic molecules. , 2018, , .		2
38	Emerging nanostructured electrode materials for water electrolysis and rechargeable beyond Li-ion batteries. Advances in Physics: X, 2017, 2, 211-253.	4.1	25
39	Two-dimensional heterostructures for energy storage. Nature Energy, 2017, 2, .	39.5	747
40	Bilayered vanadium oxide as the host material for reversible beyond lithium ion intercalation. Advanced Materials Letters, 2017, 8, 679-688.	0.6	20
41	Reversible intercalation of lithium and sodium ions into layered and tunnel structured manganese oxides: one-dimensional versus two-dimensional diffusion. , 2017, , .		2
42	The ion dependent change in the mechanism of charge storage of chemically preintercalated bilayered vanadium oxide electrodes. , 2017, , .		2
43	Effect of aging and hydrothermal treatment on electrochemical performance of chemically pre-intercalated Na ⁺ /V ⁵⁺ /O nanowires for Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 7754-7761.	10.3	44
44	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. Nano Energy, 2016, 26, 513-523.	16.0	710
45	Acid-leached δ -MnO ₂ nanowires for electrochemical energy storage. , 2014, , .		2
46	The role of vacancies and defects in Na _{0.44} MnO ₂ nanowire catalysts for lithium ⁺ /oxygen batteries. Energy and Environmental Science, 2012, 5, 9558.	30.8	169
47	Hierarchical Three-Dimensional Microbattery Electrodes Combining Bottom-Up Self-Assembly and Top-Down Micromachining. ACS Nano, 2012, 6, 6422-6432.	14.6	116