## Maria R Lukatskaya

List of Publications by Year in descending order

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MADIA D LIIKATSKAVA

#	Article	IF	CITATIONS
1	2D metal carbides and nitrides (MXenes) for energy storage. Nature Reviews Materials, 2017, 2, .	48.7	5,261
2	Conductive two-dimensional titanium carbide †̃clay' with high volumetric capacitance. Nature, 2014, 516, 78-81.	27.8	4,306
3	Cation Intercalation and High Volumetric Capacitance of Two-Dimensional Titanium Carbide. Science, 2013, 341, 1502-1505.	12.6	3,329
4	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. Nature Energy, 2017, 2, .	39.5	1,626
5	Multidimensional materials and device architectures for future hybrid energy storage. Nature Communications, 2016, 7, 12647.	12.8	1,281
6	Transparent Conductive Two-Dimensional Titanium Carbide Epitaxial Thin Films. Chemistry of Materials, 2014, 26, 2374-2381.	6.7	1,173
7	Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti <sub>3</sub> C <sub>2</sub> MXene Flakes. Advanced Electronic Materials, 2016, 2, 1600255.	5.1	1,160
8	Flexible MXene/Carbon Nanotube Composite Paper with High Volumetric Capacitance. Advanced Materials, 2015, 27, 339-345.	21.0	1,125
9	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. ACS Energy Letters, 2016, 1, 589-594.	17.4	1,100
10	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). Advanced Functional Materials, 2016, 26, 3118-3127.	14.9	945
11	Robust and conductive two-dimensional metalâ^'organic frameworks with exceptionally high volumetric and areal capacitance. Nature Energy, 2018, 3, 30-36.	39.5	786
12	Amineâ€Assisted Delamination of Nb <sub>2</sub> C MXene for Liâ€lon Energy Storage Devices. Advanced Materials, 2015, 27, 3501-3506.	21.0	749
13	NMR reveals the surface functionalisation of Ti <sub>3</sub> C <sub>2</sub> MXene. Physical Chemistry Chemical Physics, 2016, 18, 5099-5102.	2.8	689
14	One-step synthesis of nanocrystalline transition metal oxides on thin sheets of disordered graphitic carbon by oxidation of MXenes. Chemical Communications, 2014, 50, 7420-7423.	4.1	614
15	Probing the Mechanism of High Capacitance in 2D Titanium Carbide Using In Situ Xâ€Ray Absorption Spectroscopy. Advanced Energy Materials, 2015, 5, 1500589.	19.5	521
16	High capacitance of surface-modified 2D titanium carbide in acidic electrolyte. Electrochemistry Communications, 2014, 48, 118-122.	4.7	420
17	Concentrated mixed cation acetate "water-in-salt―solutions as green and low-cost high voltage electrolytes for aqueous batteries. Energy and Environmental Science, 2018, 11, 2876-2883.	30.8	315
18	In situ environmental transmission electron microscopy study of oxidation of two-dimensional Ti <sub>3</sub> C <sub>2</sub> and formation of carbon-supported TiO <sub>2</sub> . Journal of Materials Chemistry A, 2014, 2, 14339.	10.3	287

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19	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartzâ€Crystal Admittance and In Situ Electronic Conductance Measurements. Advanced Energy Materials, 2015, 5, 1400815.	19.5	283
20	Understanding the MXene Pseudocapacitance. Journal of Physical Chemistry Letters, 2018, 9, 1223-1228.	4.6	231
21	The effect of hydrazine intercalation on the structure and capacitance of 2D titanium carbide (MXene). Nanoscale, 2016, 8, 9128-9133.	5.6	225
22	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. Chemistry of Materials, 2016, 28, 3937-3943.	6.7	210
23	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. Nano Energy, 2015, 17, 27-35.	16.0	166
24	Development of a Green Supercapacitor Composed Entirely of Environmentally Friendly Materials. ChemSusChem, 2013, 6, 2269-2280.	6.8	155
25	Roomâ€Temperature Carbideâ€Derived Carbon Synthesis by Electrochemical Etching of MAX Phases. Angewandte Chemie - International Edition, 2014, 53, 4877-4880.	13.8	133
26	Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti <sub>2</sub> SC. Angewandte Chemie - International Edition, 2015, 54, 4810-4814.	13.8	100
27	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. Journal of Power Sources, 2015, 274, 121-129.	7.8	66
28	Can Anions Be Inserted into MXene?. Journal of the American Chemical Society, 2021, 143, 12552-12559.	13.7	63
29	In Situ Monitoring of Gravimetric and Viscoelastic Changes in 2D Intercalation Electrodes. ACS Energy Letters, 2017, 2, 1407-1415.	17.4	56
30	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. Journal of Physical Chemistry B, 2021, 125, 4501-4513.	2.6	52
31	Understanding the Mechanism of High Capacitance in Nickel Hexaaminobenzene-Based Conductive Metal–Organic Frameworks in Aqueous Electrolytes. ACS Nano, 2020, 14, 15919-15925.	14.6	46
32	Water or Anion? Uncovering the Zn <sup>2+</sup> Solvation Environment in Mixed Zn(TFSI) <sub>2</sub> and LiTFSI Water-in-Salt Electrolytes. ACS Energy Letters, 2021, 6, 3458-3463.	17.4	45
33	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. Chemistry of Materials, 2021, 33, 7315-7336.	6.7	39
34	Interfacial Speciation Determines Interfacial Chemistry: Xâ€rayâ€Induced Lithium Fluoride Formation from Waterâ€inâ€salt Electrolytes on Solid Surfaces. Angewandte Chemie - International Edition, 2020, 59, 23180-23187.	13.8	28
35	Controlled way to prepare quasi-1D nanostructures with complex chemical composition in porous anodic alumina. Chemical Communications, 2011, 47, 2396-2398.	4.1	24
36	Stable colloidal solutions of strontium hexaferrite hard magnetic nanoparticles. Chemical Communications, 2014, 50, 14581-14584.	4.1	21

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37	Separation and liquid chromatography using a single carbon nanotube. Scientific Reports, 2012, 2, 510.	3.3	19
38	Adsorption of proteins in channels of carbon nanotubes: Effect of surface chemistry. Materials Express, 2013, 3, 1-10.	0.5	18
39	MXene Materials: Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti <sub>3</sub> C <sub>2</sub> MXene Flakes (Adv. Electron. Mater. 12/2016). Advanced Electronic Materials, 2016, 2, .	5.1	18
40	Cobalt-containing nanocomposites based on zeolites of MFI framework type. Journal of Magnetism and Magnetic Materials, 2009, 321, 3866-3869.	2.3	10
41	Interfacial Speciation Determines Interfacial Chemistry: Xâ€rayâ€Induced Lithium Fluoride Formation from Waterâ€inâ€salt Electrolytes on Solid Surfaces. Angewandte Chemie, 2020, 132, 23380-23387.	2.0	9
42	Bottom-Up Design of Configurable Oligomer-Derived Conducting Metallopolymers for High-Power Electrochemical Energy Storage. ACS Nano, 2021, 15, 15422-15428.	14.6	9
43	Three-dimensional nanostructures from porous anodic alumina. MRS Communications, 2012, 2, 51-54.	1.8	1