

# Maria R Lukatskaya

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47 papers	19,097 citations	28 h-index	52 g-index
52 ext. papers	23,151 ext. citations	15.9 avg, IF	7.3 L-index

#	Paper	IF	Citations
47	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4501-4513	3.4	16
46	Can Anions Be Inserted into MXene?. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12552-12559	16.4	19
45	Bottom-Up Design of Configurable Oligomer-Derived Conducting Metallopolymers for High-Power Electrochemical Energy Storage. <i>ACS Nano</i> , <b>2021</b> , 15, 15422-15428	16.7	1
44	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7315-7336	9.6	10
43	Understanding the Mechanism of High Capacitance in Nickel Hexaaminobenzene-Based Conductive Metal-Organic Frameworks in Aqueous Electrolytes. <i>ACS Nano</i> , <b>2020</b> , 14, 15919-15925	16.7	16
42	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23180-23187	16.4	12
41	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23380-23387	3.6	6
40	Understanding the MXene Pseudocapacitance. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1223-1228	6.4	133
39	Robust and conductive two-dimensional metal-organic frameworks with exceptionally high volumetric and areal capacitance. <i>Nature Energy</i> , <b>2018</b> , 3, 30-36	62.3	528
38	Concentrated mixed cation acetate/water-in-salt solutions as green and low-cost high voltage electrolytes for aqueous batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2876-2883	35.4	198
37	2D metal carbides and nitrides (MXenes) for energy storage. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	3469
36	In Situ Monitoring of Gravimetric and Viscoelastic Changes in 2D Intercalation Electrodes. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1407-1415	20.1	48
35	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	1071
34	Multidimensional materials and device architectures for future hybrid energy storage. <i>Nature Communications</i> , <b>2016</b> , 7, 12647	17.4	992
33	Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti <sub>3</sub> C <sub>2</sub> MXene Flakes. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600255	6.4	649
32	NMR reveals the surface functionalisation of Ti <sub>3</sub> C <sub>2</sub> MXene. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5099-102	3.6	491
31	The effect of hydrazine intercalation on the structure and capacitance of 2D titanium carbide (MXene). <i>Nanoscale</i> , <b>2016</b> , 8, 9128-33	7.7	161

30	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3118-3127	15.6	640
29	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). <i>Advanced Electronic Materials</i> , <b>2016</b> , 2,	6.4	9
28	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3937-3943	9.6	172
27	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 589-594	20.1	752
26	Synthesis of carbon/sulfur nanolaminates by electrochemical extraction of titanium from Ti <sub>3</sub> BC. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4810-4	16.4	81
25	Amine-Assisted Delamination of Nb <sub>2</sub> C MXene for Li-Ion Energy Storage Devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 3501-6	24	555
24	Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti <sub>2</sub> SC. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4892-4896	3.6	19
23	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. <i>Nano Energy</i> , <b>2015</b> , 17, 27-35	17.1	135
22	Flexible MXene/carbon nanotube composite paper with high volumetric capacitance. <i>Advanced Materials</i> , <b>2015</b> , 27, 339-45	24	860
21	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 121-129	8.9	64
20	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartz-Crystal Admittance and In Situ Electronic Conductance Measurements. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1400815	21.8	225
19	Innentitelbild: Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti <sub>2</sub> SC (Angew. Chem. 16/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4764-4764	3.6	
18	Probing the Mechanism of High Capacitance in 2D Titanium Carbide Using In Situ X-Ray Absorption Spectroscopy. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500589	21.8	374
17	Room-temperature carbide-derived carbon synthesis by electrochemical etching of MAX phases. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 4877-80	16.4	86
16	Stable colloidal solutions of strontium hexaferrite hard magnetic nanoparticles. <i>Chemical Communications</i> , <b>2014</b> , 50, 14581-4	5.8	15
15	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> . <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14339	13	211
14	One-step synthesis of nanocrystalline transition metal oxides on thin sheets of disordered graphitic carbon by oxidation of MXenes. <i>Chemical Communications</i> , <b>2014</b> , 50, 7420-3	5.8	427
13	Transparent Conductive Two-Dimensional Titanium Carbide Epitaxial Thin Films. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2374-2381	9.6	778

12	Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4977-4980	3.6	23
11	Innentitelbild: Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases (Angew. Chem. 19/2014). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4820-4820	3.6	
10	High capacitance of surface-modified 2D titanium carbide in acidic electrolyte. <i>Electrochemistry Communications</i> , <b>2014</b> , 48, 118-122	5.1	308
9	Conductive two-dimensional titanium carbide 'clay' with high volumetric capacitance. <i>Nature</i> , <b>2014</b> , 516, 78-81	50.4	2849
8	Cation intercalation and high volumetric capacitance of two-dimensional titanium carbide. <i>Science</i> , <b>2013</b> , 341, 1502-5	33.3	2510
7	Development of a green supercapacitor composed entirely of environmentally friendly materials. <i>ChemSusChem</i> , <b>2013</b> , 6, 2269-80	8.3	113
6	Adsorption of proteins in channels of carbon nanotubes: Effect of surface chemistry. <i>Materials Express</i> , <b>2013</b> , 3, 1-10	1.3	15
5	Three-dimensional nanostructures from porous anodic alumina. <i>MRS Communications</i> , <b>2012</b> , 2, 51-54	2.7	1
4	Separation and liquid chromatography using a single carbon nanotube. <i>Scientific Reports</i> , <b>2012</b> , 2, 510	4.9	17
3	Controlled way to prepare quasi-1D nanostructures with complex chemical composition in porous anodic alumina. <i>Chemical Communications</i> , <b>2011</b> , 47, 2396-8	5.8	22
2	Cobalt-containing nanocomposites based on zeolites of MFI framework type. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 3866-3869	2.8	9
1	Water or Anion? Uncovering the Zn <sup>2+</sup> Solvation Environment in Mixed Zn(TFSI) <sub>2</sub> and LiTFSI Water-in-Salt Electrolytes. <i>ACS Energy Letters</i> , 3458-3463	20.1	5