

Maria R Lukatskaya

List of Publications by Citations

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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	2D metal carbides and nitrides (MXenes) for energy storage. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	3469
46	Conductive two-dimensional titanium carbide 'clay' with high volumetric capacitance. <i>Nature</i> , 2014 , 516, 78-81	50.4	2849
45	Cation intercalation and high volumetric capacitance of two-dimensional titanium carbide. <i>Science</i> , 2013 , 341, 1502-5	33.3	2510
44	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. <i>Nature Energy</i> , 2017 , 2,	62.3	1071
43	Multidimensional materials and device architectures for future hybrid energy storage. <i>Nature Communications</i> , 2016 , 7, 12647	17.4	992
42	Flexible MXene/carbon nanotube composite paper with high volumetric capacitance. <i>Advanced Materials</i> , 2015 , 27, 339-45	24	860
41	Transparent Conductive Two-Dimensional Titanium Carbide Epitaxial Thin Films. <i>Chemistry of Materials</i> , 2014 , 26, 2374-2381	9.6	778
40	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Energy Letters</i> , 2016 , 1, 589-594	20.1	752
39	Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti ₃ C ₂ MXene Flakes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600255	6.4	649
38	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). <i>Advanced Functional Materials</i> , 2016 , 26, 3118-3127	15.6	640
37	Amine-Assisted Delamination of Nb ₂ C MXene for Li-Ion Energy Storage Devices. <i>Advanced Materials</i> , 2015 , 27, 3501-6	24	555
36	Robust and conductive two-dimensional metal-organic frameworks with exceptionally high volumetric and areal capacitance. <i>Nature Energy</i> , 2018 , 3, 30-36	62.3	528
35	NMR reveals the surface functionalisation of Ti ₃ C ₂ MXene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5099-102	3.6	491
34	One-step synthesis of nanocrystalline transition metal oxides on thin sheets of disordered graphitic carbon by oxidation of MXenes. <i>Chemical Communications</i> , 2014 , 50, 7420-3	5.8	427
33	Probing the Mechanism of High Capacitance in 2D Titanium Carbide Using In Situ X-Ray Absorption Spectroscopy. <i>Advanced Energy Materials</i> , 2015 , 5, 1500589	21.8	374
32	High capacitance of surface-modified 2D titanium carbide in acidic electrolyte. <i>Electrochemistry Communications</i> , 2014 , 48, 118-122	5.1	308
31	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartz-Crystal Admittance and In Situ Electronic Conductance Measurements. <i>Advanced Energy Materials</i> , 2015 , 5, 1400815	21.8	225

30	In situ environmental transmission electron microscopy study of oxidation of two-dimensional Ti ₃ C ₂ and formation of carbon-supported TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14339	13	211
29	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> , 2018 , 11, 2876-2883	35.4	198
28	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , 2016 , 28, 3937-3943	9.6	172
27	The effect of hydrazine intercalation on the structure and capacitance of 2D titanium carbide (MXene). <i>Nanoscale</i> , 2016 , 8, 9128-33	7.7	161
26	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. <i>Nano Energy</i> , 2015 , 17, 27-35	17.1	135
25	Understanding the MXene Pseudocapacitance. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1223-1228	6.4	133
24	Development of a green supercapacitor composed entirely of environmentally friendly materials. <i>ChemSusChem</i> , 2013 , 6, 2269-80	8.3	113
23	Room-temperature carbide-derived carbon synthesis by electrochemical etching of MAX phases. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4877-80	16.4	86
22	Synthesis of carbon/sulfur nanolaminates by electrochemical extraction of titanium from Ti ₃ SiC ₂ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4810-4	16.4	81
21	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. <i>Journal of Power Sources</i> , 2015 , 274, 121-129	8.9	64
20	In Situ Monitoring of Gravimetric and Viscoelastic Changes in 2D Intercalation Electrodes. <i>ACS Energy Letters</i> , 2017 , 2, 1407-1415	20.1	48
19	Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases. <i>Angewandte Chemie</i> , 2014 , 126, 4977-4980	3.6	23
18	Controlled way to prepare quasi-1D nanostructures with complex chemical composition in porous anodic alumina. <i>Chemical Communications</i> , 2011 , 47, 2396-8	5.8	22
17	Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti ₂ SiC ₂ . <i>Angewandte Chemie</i> , 2015 , 127, 4892-4896	3.6	19
16	Can Anions Be Inserted into MXene?. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12552-12559	16.4	19
15	Separation and liquid chromatography using a single carbon nanotube. <i>Scientific Reports</i> , 2012 , 2, 510	4.9	17
14	Understanding the Mechanism of High Capacitance in Nickel Hexaaminobenzene-Based Conductive Metal-Organic Frameworks in Aqueous Electrolytes. <i>ACS Nano</i> , 2020 , 14, 15919-15925	16.7	16
13	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4501-4513	3.4	16

12	Stable colloidal solutions of strontium hexaferrite hard magnetic nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 14581-4	5.8	15
11	Adsorption of proteins in channels of carbon nanotubes: Effect of surface chemistry. <i>Materials Express</i> , 2013 , 3, 1-10	1.3	15
10	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> , 2020 , 59, 23180-23187	16.4	12
9	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. <i>Chemistry of Materials</i> , 2021 , 33, 7315-7336	9.6	10
8	Cobalt-containing nanocomposites based on zeolites of MFI framework type. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3866-3869	2.8	9
7	MXene Materials: Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti ₃ C ₂ MXene Flakes (Adv. Electron. Mater. 12/2016). <i>Advanced Electronic Materials</i> , 2016 , 2,	6.4	9
6	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie</i> , 2020 , 132, 23380-23387	3.6	6
5	Water or Anion? Uncovering the Zn ²⁺ Solvation Environment in Mixed Zn(TFSI) ₂ and LiTFSI Water-in-Salt Electrolytes. <i>ACS Energy Letters</i> , 3458-3463	20.1	5
4	Three-dimensional nanostructures from porous anodic alumina. <i>MRS Communications</i> , 2012 , 2, 51-54	2.7	1
3	Bottom-Up Design of Configurable Oligomer-Derived Conducting Metallopolymers for High-Power Electrochemical Energy Storage. <i>ACS Nano</i> , 2021 , 15, 15422-15428	16.7	1
2	Innentitelbild: Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases (Angew. Chem. 19/2014). <i>Angewandte Chemie</i> , 2014 , 126, 4820-4820	3.6	
1	Innentitelbild: Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti ₂ SC (Angew. Chem. 16/2015). <i>Angewandte Chemie</i> , 2015 , 127, 4764-4764	3.6	