

# Boris Dyatkin

## 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.

46  
papers

3,123  
citations

22  
h-index

51  
g-index

51  
ext. papers

3,634  
ext. citations

5.8  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
46	MXene: a promising transition metal carbide anode for lithium-ion batteries. <i>Electrochemistry Communications</i> , <b>2012</b> , 16, 61-64	5.1	963
45	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
44	Kinetics of aluminum extraction from Ti <sub>3</sub> AlC <sub>2</sub> in hydrofluoric acid. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 139, 147-152	4.4	227
43	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
42	Effect of Metal Ion Intercalation on the Structure of MXene and Water Dynamics on its Internal Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8859-63	9.5	164
41	Ion dynamics in porous carbon electrodes in supercapacitors using in situ infrared spectroelectrochemistry. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12818-26	16.4	142
40	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. <i>Carbon</i> , <b>2014</b> , 77, 155-164	10.4	132
39	Development of a green supercapacitor composed entirely of environmentally friendly materials. <i>ChemSusChem</i> , <b>2013</b> , 6, 2269-80	8.3	113
38	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
37	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
36	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
35	High capacitance of coarse-grained carbide derived carbon electrodes. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 32-41	8.9	50
34	Effects of structural disorder and surface chemistry on electric conductivity and capacitance of porous carbon electrodes. <i>Faraday Discussions</i> , <b>2014</b> , 172, 139-62	3.6	48
33	Polymer single crystal-decorated superhydrophobic buckypaper with controlled wetting and conductivity. <i>ACS Nano</i> , <b>2012</b> , 6, 1204-13	16.7	45
32	High-density freestanding graphene/carbide-derived carbon film electrodes for electrochemical capacitors. <i>Carbon</i> , <b>2017</b> , 118, 642-649	10.4	41
31	Mixed Ionic Liquid Improves Electrolyte Dynamics in Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10476-10481	3.8	40
30	Effect of nanostructured carbon support on copper electrocatalytic activity toward CO <sub>2</sub> electroreduction to hydrocarbon fuels. <i>Catalysis Today</i> , <b>2017</b> , 288, 2-10	5.3	35

29	Influence of Surface Oxidation on Ion Dynamics and Capacitance in Porous and Nonporous Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 8730-8741	3.8	34
28	Synthesis of carbon core-shell pore structures and their performance as supercapacitors. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 218, 130-136	5.3	32
27	Ionic liquid structure, dynamics, and electrosorption in carbon electrodes with bimodal pores and heterogeneous surfaces. <i>Carbon</i> , <b>2018</b> , 129, 104-118	10.4	30
26	In situ synthesis of cotton-derived Ni/C catalysts with controllable structures and enhanced catalytic performance. <i>Green Chemistry</i> , <b>2016</b> , 18, 3594-3599	10	29
25	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
24	Capacitance, charge dynamics, and electrolyte-surface interactions in functionalized carbide-derived carbon electrodes. <i>Progress in Natural Science: Materials International</i> , <b>2015</b> , 25, 631-641 <sup>3.6</sup>	3.6	22
23	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
22	Electrolyte cation length influences electrosorption and dynamics in porous carbon supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 882-893	6.7	15
21	Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	12
20	Molecular Investigation of Oxidized Graphene: Anatomy of the Double-Layer Structure and Ion Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	9
19	Carbon electrodes for energy storage: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 172, 239-60	3.6	9
18	An Atomistic Carbide-Derived Carbon Model Generated Using ReaxFF-Based Quenched Molecular Dynamics. <i>Journal of Carbon Research</i> , <b>2017</b> , 3, 32	3.3	9
17	Ionic liquid dynamics in nanoporous carbon: A pore-size- and temperature-dependent neutron spectroscopy study on supercapacitor materials. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	8
16	Cation Molecular Structure Affects Mobility and Transport of Electrolytes in Porous Carbons. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A507-A514	3.9	7
15	Electrode Surface Composition of Dual-Intercalation, All-Graphite Batteries. <i>Journal of Carbon Research</i> , <b>2017</b> , 3, 5	3.3	7
14	Side-chain effects on the capacitive behaviour of ionic liquids in microporous electrodes. <i>Molecular Physics</i> , <b>2019</b> , 117, 3603-3613	1.7	5
13	Direct formulation of nanocrystalline silicon carbide/nitride solid ceramics. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 9294-9307	4.3	4
12	The many faces of carbon in electrochemistry: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 172, 117-37 <sup>3.6</sup>	3.6	4

11	Superconducting TaC nanoparticle-containing ceramic nanocomposites thermally transformed from mixed Ta and aromatic molecule precursors. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3353-3361	2.5	4
10	Synthesis and material properties of polymer-derived niobium carbide and niobium nitride nanocrystalline ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 1163-1168	5.1	3
9	Chemical structure and curing dynamics of bisphenol S, PEEKTM-like, and resveratrol phthalonitrile thermoset resins. <i>Journal of Polymer Science</i> , <b>2020</b> , 58, 3419-3431	2.4	2
8	A Combined Theoretical and Experimental Characterization of a Zirconium MOF with Potential Application to Supercapacitors. <i>Applied Magnetic Resonance</i> , 1	0.8	2
7	Highlights from Faraday Discussion 172: Carbon in electrochemistry, Sheffield, UK, July 2014. <i>Chemical Communications</i> , <b>2015</b> , 51, 2199-207	5.8	1
6	Influence of molecular weight on thermal and mechanical properties of bisphenol A-based phthalonitrile resins. <i>Journal of Applied Polymer Science</i> , 51783	2.9	1
5	Microwave-assisted pressureless sintering of silicon-reinforced boron carbide composites. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 292, 121659	3.3	0
4	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	
3	Advocacy, public service, and outreach: Why scientists must step up. <i>MRS Bulletin</i> , <b>2017</b> , 42, 333	3.2	
2	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	
1	Synthesis, structure, and properties of polymer-derived, metal-reinforced boron carbide cermet composites. <i>International Journal of Applied Ceramic Technology</i> , <b>2021</b> , 18, 457-471	2	