

# Michael Ghidiu

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

8,055  
citations

279798

23  
h-index

434195

31  
g-index

33  
all docs

33  
docs citations

33  
times ranked

8066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductive two-dimensional titanium carbide "clay"™ with high volumetric capacitance. <i>Nature</i> , 2014, 516, 78-81.	27.8	4,306
2	NMR reveals the surface functionalisation of Ti <sub>3</sub> C <sub>2</sub> MXene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5099-5102.	2.8	689
3	Highly Conductive Optical Quality Solution-Processed Films of 2D Titanium Carbide. <i>Advanced Functional Materials</i> , 2016, 26, 4162-4168.	14.9	680
4	Ion-Exchange and Cation Solvation Reactions in Ti <sub>3</sub> C <sub>2</sub> MXene. <i>Chemistry of Materials</i> , 2016, 28, 3507-3514.	6.7	499
5	Layered Orthorhombic Nb <sub>2</sub> O <sub>5</sub> @Nb <sub>4</sub> C <sub>3</sub> T <sub>x</sub> and TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Hierarchical Composites for High Performance Li-ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 4143-4151.	14.9	309
6	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. <i>Nano Energy</i> , 2016, 30, 603-613.	16.0	293
7	Two-Dimensional Nb-Based M <sub>4</sub> C <sub>3</sub> Solid Solutions (MXenes). <i>Journal of the American Ceramic Society</i> , 2016, 99, 660-666.	3.8	234
8	Alkylammonium Cation Intercalation into Ti <sub>3</sub> C <sub>2</sub> (MXene): Effects on Properties and Ion-Exchange Capacity Estimation. <i>Chemistry of Materials</i> , 2017, 29, 1099-1106.	6.7	188
9	Solution-based synthesis of lithium thiophosphate superionic conductors for solid-state batteries: a chemistry perspective. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17735-17753.	10.3	82
10	Pressure-induced shear and interlayer expansion in Ti <sub>3</sub> C <sub>2</sub> MXene in the presence of water. <i>Science Advances</i> , 2018, 4, ea06850.	10.3	75
11	Rapid Crystallization and Kinetic Freezing of Site-Disorder in the Lithium Superionic Argyrodite Li <sub>6</sub> PS <sub>5</sub> Br. <i>Chemistry of Materials</i> , 2019, 31, 10178-10185.	6.7	72
12	Synthesis, Electrochemistry, and Photophysics of a Family of Phlorin Macrocycles That Display Cooperative Fluoride Binding. <i>Journal of the American Chemical Society</i> , 2013, 135, 6601-6607.	13.7	61
13	Engineering the Site-Disorder and Lithium Distribution in the Lithium Superionic Argyrodite Li <sub>6</sub> PS <sub>5</sub> Br. <i>Advanced Energy Materials</i> , 2021, 11, 2003369.	19.5	57
14	Impact of Solvent Treatment of the Superionic Argyrodite Li <sub>6</sub> PS <sub>5</sub> Cl on Solid-State Battery Performance. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000077.	5.8	55
15	Changing the Static and Dynamic Lattice Effects for the Improvement of the Ionic Transport Properties within the Argyrodite Li <sub>6</sub> PS <sub>5</sub> SeI. <i>ACS Applied Energy Materials</i> , 2020, 3, 9-18.	5.1	52
16	The {110} reflection in X-ray diffraction of MXene films: Misinterpretation and measurement via non-standard orientation. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5395-5399.	3.8	49
17	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 411-422.	5.1	46
18	Effect of Cationic Exchange on the Hydration and Swelling Behavior of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20044-20050.	3.1	45

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19	Anion Adsorption, Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Multilayers, and Their Effect on Claylike Swelling. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23172-23179.	3.1	42
20	On the underestimated influence of synthetic conditions in solid ionic conductors. <i>Chemical Science</i> , 2021, 12, 6238-6263.	7.4	37
21	Thermal versus Photochemical Reductive Elimination of Aryl Chlorides from NHC-Gold Complexes. <i>Organometallics</i> , 2013, 32, 5026-5029.	2.3	35
22	On the Lithium Distribution in Halide Superionic Argyrodites by Halide Incorporation in Li <sub>7</sub> PS <sub>6</sub> Cl. <i>ACS Applied Energy Materials</i> , 2021, 4, 7309-7315.	5.1	30
23	On the interactions of Ti <sub>2</sub> AlC, Ti <sub>3</sub> AlC <sub>2</sub> , Ti <sub>3</sub> SiC <sub>2</sub> and Cr <sub>2</sub> AlC with silicon carbide and pyrolytic carbon at 1300 Å°C. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4107-4114.	5.7	24
24	Factors Controlling the Spectroscopic Properties and Supramolecular Chemistry of an Electron Deficient 5,5-Dimethylphlorin Architecture. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14124-14132.	3.1	22
25	Two-Dimensional Substitution Series Na <sub>3</sub> P <sub>1</sub> Sb <sub>1</sub> S <sub>4</sub> Se: Beyond Static Description of Structural Bottlenecks for Na <sup>+</sup> Transport. <i>Chemistry of Materials</i> , 2022, 34, 2410-2421.	6.7	15
26	On the interactions of Ti <sub>2</sub> AlC, Ti <sub>3</sub> AlC <sub>2</sub> , Ti <sub>3</sub> SiC <sub>2</sub> and Cr <sub>2</sub> AlC with pure sodium at 550 Å°C and 750 Å°C. <i>Corrosion Science</i> , 2016, 111, 568-573.	6.6	13
27	Pyridine Complexes as Tailored Precursors for Rapid Synthesis of Thiophosphate Superionic Conductors. <i>Batteries and Supercaps</i> , 2021, 4, 607-611.	4.7	7
28	Sn Substitution in the Lithium Superionic Argyrodite Li <sub>6</sub> PCh <sub>5</sub> I (Ch = S and Se). <i>Inorganic Chemistry</i> , 2021, 60, 18975-18980.	4.0	7
29	Chemical and Electrochemical Intercalation of Ions and Molecules into MXenes. , 2019, , 161-175.		2