

# Michael Ghidiu

## List of Publications by Year in descending order

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29  
papers

8,055  
citations

279701

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33  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Substitution Series Na <sub>3</sub> P <sub>1</sub> Sb <sub>x</sub> S <sub>4</sub> Se <sub>y</sub> : Beyond Static Description of Structural Bottlenecks for Na <sup>+</sup> Transport. Chemistry of Materials, 2022, 34, 2410-2421.	3.2	15
2	Pyridine Complexes as Tailored Precursors for Rapid Synthesis of Thiophosphate Superionic Conductors. Batteries and Supercaps, 2021, 4, 607-611.	2.4	7
3	Impact of Solvent Treatment of the Superionic Argyrodite Li <sub>6</sub> PS <sub>5</sub> Cl on Solid-State Battery Performance. Advanced Energy and Sustainability Research, 2021, 2, 2000077.	2.8	55
4	On the Lithium Distribution in Halide Superionic Argyrodites by Halide Incorporation in Li <sub>7</sub> PS <sub>6</sub> Cl. ACS Applied Energy Materials, 2021, 4, 7309-7315.	2.5	30
5	On the underestimated influence of synthetic conditions in solid ionic conductors. Chemical Science, 2021, 12, 6238-6263.	3.7	37
6	Engineering the Site-Disorder and Lithium Distribution in the Lithium Superionic Argyrodite Li <sub>6</sub> PS <sub>5</sub> Br. Advanced Energy Materials, 2021, 11, 2003369.	10.2	57
7	Sn Substitution in the Lithium Superionic Argyrodite Li <sub>6</sub> PCh <sub>5</sub> I (Ch = S and Se). Inorganic Chemistry, 2021, 60, 18975-18980.	1.9	7
8	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. ACS Applied Energy Materials, 2020, 3, 9-18.	2.5	52
9	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. ACS Applied Energy Materials, 2020, 3, 411-422.	2.5	46
10	Effect of Cationic Exchange on the Hydration and Swelling Behavior of Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXenes. Journal of Physical Chemistry C, 2019, 123, 20044-20050.	1.5	45
11	Solution-based synthesis of lithium thiophosphate superionic conductors for solid-state batteries: a chemistry perspective. Journal of Materials Chemistry A, 2019, 7, 17735-17753.	5.2	82
12	Rapid Crystallization and Kinetic Freezing of Site-Disorder in the Lithium Superionic Argyrodite Li <sub>6</sub> PS <sub>5</sub> Br. Chemistry of Materials, 2019, 31, 10178-10185.	3.2	72
13	Chemical and Electrochemical Intercalation of Ions and Molecules into MXenes. , 2019, , 161-175.		2
14	Pressure-induced shear and interlayer expansion in Ti <sub>3</sub> C <sub>2</sub> MXene in the presence of water. Science Advances, 2018, 4, eaao6850.	4.7	75
15	Anion Adsorption, Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Multilayers, and Their Effect on Claylike Swelling. Journal of Physical Chemistry C, 2018, 122, 23172-23179.	1.5	42
16	Alkylammonium Cation Intercalation into Ti <sub>3</sub> C <sub>2</sub> (MXene): Effects on Properties and Ion-Exchange Capacity Estimation. Chemistry of Materials, 2017, 29, 1099-1106.	3.2	188
17	The {110} reflection in X-ray diffraction of MXene films: Misinterpretation and measurement via non-standard orientation. Journal of the American Ceramic Society, 2017, 100, 5395-5399.	1.9	49
18	Highly Conductive Optical Quality Solution-Processed Films of 2D Titanium Carbide. Advanced Functional Materials, 2016, 26, 4162-4168.	7.8	680

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19	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.	3.2	499
20	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. <i>Nano Energy</i> , 2016, 30, 603-613.	8.2	293
21	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.	7.8	309
22	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.	1.9	234
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 pure sodium at 550 Å°C and 750 Å°C. <i>Corrosion Science</i> , 2016, 111, 568-573.	3.0	13
24	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.	1.3	689
25	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.	2.8	24
26	Conductive two-dimensional titanium carbide ~clay™ with high volumetric capacitance. <i>Nature</i> , 2014, 516, 78-81.	13.7	4,306
27	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.	1.5	22
28	Thermal versus Photochemical Reductive Elimination of Aryl Chlorides from NHC-Gold Complexes. <i>Organometallics</i> , 2013, 32, 5026-5029.	1.1	35
29	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.	6.6	61