

# Kathleen Maleski

## 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.

50  
papers

7,814  
citations

34  
h-index

50  
g-index

50  
ext. papers

10,519  
ext. citations

11.8  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
50	Shifts in valence states in bimetallic MXenes revealed by electron energy-loss spectroscopy (EELS). <i>2D Materials</i> , <b>2022</b> , 9, 025004	5.9	1
49	Delamination of MXenes using Bovine Serum Albumin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128580	5.1	4
48	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive TiC MXene. <i>ACS Nano</i> , <b>2021</b> , 15, 6420-6429	16.7	116
47	Charge Dynamics in TiO <sub>2</sub> /MXene Composites. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 10473-10482	3.8	4
46	The Broad Chromatic Range of Two-Dimensional Transition Metal Carbides. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001563	8.1	33
45	Intercalation-Induced Reversible Electrochromic Behavior of Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene in Organic Electrolytes. <i>ChemElectroChem</i> , <b>2021</b> , 8, 151-156	4.3	9
44	Microsupercapacitor with a 500 nm gap between MXene/CNT electrodes. <i>Nano Energy</i> , <b>2021</b> , 81, 105616	7.1	25
43	2D Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) in Accommodating Intraocular Lens Design. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000841	15.6	9
42	A gel-free TiCT-based electrode array for high-density, high-resolution surface electromyography. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000325	6.8	16
41	Tunable electrochromic behavior of titanium-based MXenes. <i>Nanoscale</i> , <b>2020</b> , 12, 14204-14212	7.7	19
40	Fabrication of Ti <sub>3</sub> C <sub>2</sub> MXene Microelectrode Arrays for In Vivo Neural Recording. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	8
39	TiCT MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. <i>ACS Nano</i> , <b>2020</b> , 14, 3576-3586	16.7	130
38	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000919	24	59
37	Dynamically controlled random lasing with colloidal titanium carbide MXene. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2304	2.6	1
36	Synthesis of MoVAIC MAX Phase and Two-Dimensional MoVC MXene with Five Atomic Layers of Transition Metals. <i>ACS Nano</i> , <b>2020</b> , 14, 204-217	16.7	198
35	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. <i>Matter</i> , <b>2020</b> , 3, 546-557	12.7	62
34	Tailoring Electronic and Optical Properties of MXenes through Forming Solid Solutions. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19110-19118	16.4	58

33	SnO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene electron transport layers for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5635-5642	13	111
32	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902393	21	59
31	On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901061	21.8	64
30	Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. <i>ACS Sensors</i> , <b>2019</b> , 4, 1365-1372	9.2	84
29	Effect of Ti <sub>3</sub> AlC <sub>2</sub> MAX Phase on Structure and Properties of Resultant Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 3368-3376	5.6	92
28	Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dip-Coating. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809223	15.6	80
27	Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2941-2951	9.6	98
26	An investigation into the factors governing the oxidation of two-dimensional TiC MXene. <i>Nanoscale</i> , <b>2019</b> , 11, 8387-8393	7.7	146
25	Interfacial Assembly of Ultrathin, Functional MXene Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32320-32327	9.5	46
24	Sculpting Liquids with Two-Dimensional Materials: The Assembly of TiCT MXene Sheets at Liquid-Liquid Interfaces. <i>ACS Nano</i> , <b>2019</b> , 13, 12385-12392	16.7	30
23	Optical Properties of MXenes <b>2019</b> , 327-346		7
22	Top-Down MXene Synthesis (Selective Etching) <b>2019</b> , 69-87		6
21	Mechanically strong and electrically conductive multilayer MXene nanocomposites. <i>Nanoscale</i> , <b>2019</b> , 11, 20295-20300	7.7	52
20	Direct Writing of Additive-Free MXene-in-Water Ink for Electronics and Energy Storage. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800256	6.8	78
19	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. <i>ACS Nano</i> , <b>2018</b> , 12, 2685-2694	16.7	155
18	Selective Etching of Silicon from Ti SiC (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5444-5448	16.4	185
17	Metallic TiCT MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. <i>ACS Nano</i> , <b>2018</b> , 12, 986-993	16.7	664
16	Saturable Absorption in 2D Ti C MXene Thin Films for Passive Photonic Diodes. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705714	24	213

15	2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 33-38	5.6	52
14	Selective Etching of Silicon from Ti <sub>3</sub> SiC <sub>2</sub> (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 5542-5546	3.6	56
13	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24491-24498	9.5	150
12	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2094-2100	20.1	103
11	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. <i>Nano Energy</i> , <b>2018</b> , 44, 103-110	17.1	178
10	Layer-by-Layer Assembly of Cross-Functional Semi-transparent MXene-Carbon Nanotubes Composite Films for Next-Generation Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803360	15.6	270
9	Two-Dimensional TiC MXene for High-Resolution Neural Interfaces. <i>ACS Nano</i> , <b>2018</b> , 12, 10419-10429	16.7	82
8	Dispersions of Two-Dimensional Titanium Carbide MXene in Organic Solvents. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1632-1640	9.6	421
7	Processing of Onion-like Carbon for Electrochemical Capacitors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, M3103-M3108	2	10
6	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene). <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7633-7644	9.6	1689
5	Two-Dimensional Titanium Carbide (MXene) as Surface-Enhanced Raman Scattering Substrate. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19983-19988	3.8	179
4	Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , <b>2017</b> , 8, 336	17.4	257
3	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701264	15.6	934
2	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. <i>Nano Energy</i> , <b>2016</b> , 26, 513-523	17.1	505
1	An aqueous 2.1 V pseudocapacitor with MXene and V-MnO <sub>2</sub> electrodes. <i>Nano Research</i> , <b>2016</b> , 9, 10	10	6