

# Kathleen Maleski

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

13,687  
citations

87888

38  
h-index

206112

48  
g-index

50  
all docs

50  
docs citations

50  
times ranked

10432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene). Chemistry of Materials, 2017, 29, 7633-7644.	6.7	3,129
2	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. Advanced Functional Materials, 2017, 27, 1701264.	14.9	1,354
3	Metallic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. ACS Nano, 2018, 12, 986-993.	14.6	1,153
4	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. Nano Energy, 2016, 26, 513-523.	16.0	710
5	Dispersions of Two-Dimensional Titanium Carbide MXene in Organic Solvents. Chemistry of Materials, 2017, 29, 1632-1640.	6.7	667
6	Synthesis of Mo <sub>4</sub> AlC <sub>4</sub> MAX Phase and Two-Dimensional Mo <sub>4</sub> VC <sub>4</sub> MXene with Five Atomic Layers of Transition Metals. ACS Nano, 2020, 14, 204-217.	14.6	429
7	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive Ti <sub>3</sub> C <sub>2</sub> MXene. ACS Nano, 2021, 15, 6420-6429.	14.6	417
8	Layer-by-Layer Assembly of Cross-Functional Semi-transparent MXene-Carbon Nanotubes Composite Films for Next-Generation Electromagnetic Interference Shielding. Advanced Functional Materials, 2018, 28, 1803360.	14.9	407
9	Saturable Absorption in 2D Ti <sub>3</sub> C <sub>2</sub> MXene Thin Films for Passive Photonic Diodes. Advanced Materials, 2018, 30, 1705714.	21.0	332
10	Nanodiamonds suppress the growth of lithium dendrites. Nature Communications, 2017, 8, 336.	12.8	327
11	Selective Etching of Silicon from Ti <sub>3</sub> SiC <sub>2</sub> (MAX) To Obtain 2D Titanium Carbide (MXene). Angewandte Chemie - International Edition, 2018, 57, 5444-5448.	13.8	299
12	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. ACS Nano, 2018, 12, 2685-2694.	14.6	288
13	Two-Dimensional Titanium Carbide (MXene) as Surface-Enhanced Raman Scattering Substrate. Journal of Physical Chemistry C, 2017, 121, 19983-19988.	3.1	281
14	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. ACS Nano, 2020, 14, 3576-3586.	14.6	277
15	An investigation into the factors governing the oxidation of two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene. Nanoscale, 2019, 11, 8387-8393.	5.6	276
16	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. ACS Applied Materials & Interfaces, 2018, 10, 24491-24498.	8.0	275
17	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. Nano Energy, 2018, 44, 103-110.	16.0	273
18	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. ACS Applied Nano Materials, 2019, 2, 3368-3376.	5.0	210

#	ARTICLE	IF	CITATIONS
19	Tailoring Electronic and Optical Properties of MXenes through Forming Solid Solutions. <i>Journal of the American Chemical Society</i> , 2020, 142, 19110-19118.	13.7	198
20	Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> MXene for High-Resolution Neural Interfaces. <i>ACS Nano</i> , 2018, 12, 10419-10429.	14.6	173
21	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> , 2019, 7, 5635-5642.	10.3	173
22	Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. <i>Chemistry of Materials</i> , 2019, 31, 2941-2951.	6.7	160
23	Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. <i>ACS Sensors</i> , 2019, 4, 1365-1372.	7.8	154
24	Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dip-Coating. <i>Advanced Functional Materials</i> , 2019, 29, 1809223.	14.9	148
25	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. <i>ACS Energy Letters</i> , 2018, 3, 2094-2100.	17.4	145
26	Selective Etching of Silicon from Ti <sub>3</sub> SiC <sub>2</sub> (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie</i> , 2018, 130, 5542-5546.	2.0	127
27	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. <i>Matter</i> , 2020, 3, 546-557.	10.0	127
28	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e2000919.	21.0	122
29	The Broad Chromatic Range of Two-Dimensional Transition Metal Carbides. <i>Advanced Optical Materials</i> , 2021, 9, 2001563.	7.3	118
30	On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1901061.	19.5	113
31	Direct Writing of Additive-Free MXene in Water Ink for Electronics and Energy Storage. <i>Advanced Materials Technologies</i> , 2019, 4, 1800256.	5.8	112
32	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , 2019, 31, e1902393.	21.0	93
33	Interfacial Assembly of Ultrathin, Functional MXene Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32320-32327.	8.0	91
34	Mechanically strong and electrically conductive multilayer MXene nanocomposites. <i>Nanoscale</i> , 2019, 11, 20295-20300.	5.6	81
35	2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. <i>Batteries and Supercaps</i> , 2018, 1, 33-38.	4.7	72
36	Microsupercapacitor with a 500-nm gap between MXene/CNT electrodes. <i>Nano Energy</i> , 2021, 81, 105616.	16.0	61

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37	Sculpting Liquids with Two-Dimensional Materials: The Assembly of Ti <sub>3</sub> C <sub>2</sub> MXene Sheets at Liquid-Liquid Interfaces. ACS Nano, 2019, 13, 12385-12392.	14.6	52
38	Tunable electrochromic behavior of titanium-based MXenes. Nanoscale, 2020, 12, 14204-14212.	5.6	42
39	A Gel-Free Ti <sub>3</sub> C <sub>2</sub> MXene-Based Electrode Array for High-Density, High-Resolution Surface Electromyography. Advanced Materials Technologies, 2020, 5, 2000325.	5.8	39
40	An aqueous 2.1 V pseudocapacitor with MXene and V-MnO <sub>2</sub> electrodes. Nano Research, 2022, 15, 535-541.	10.4	31
41	2D Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> MX) in Accommodating Intraocular Lens Design. Advanced Functional Materials, 2020, 30, 2000841.	14.9	26
42	Intercalation-Induced Reversible Electrochromic Behavior of Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> MXene in Organic Electrolytes. ChemElectroChem, 2021, 8, 151-156.	3.4	21
43	Charge Dynamics in TiO <sub>2</sub> /MXene Composites. Journal of Physical Chemistry C, 2021, 125, 10473-10482.	3.1	20
44	Top-Down MXene Synthesis (Selective Etching). , 2019, , 69-87.		16
45	Fabrication of Ti <sub>3</sub> C <sub>2</sub> MXene Microelectrode Arrays for In Vivo Neural Recording. Journal of Visualized Experiments, 2020, , .	0.3	15
46	Delamination of MXenes using bovine serum albumin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128580.	4.7	15
47	Processing of Onion-like Carbon for Electrochemical Capacitors. ECS Journal of Solid State Science and Technology, 2017, 6, M3103-M3108.	1.8	14
48	Optical Properties of MXenes. , 2019, , 327-346.		12
49	Shifts in valence states in bimetallic MXenes revealed by electron energy-loss spectroscopy (EELS). 2D Materials, 2022, 9, 025004.	4.4	11
50	Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304.	3.0	1