Kathleen Maleski

List of Publications by Year
in descending order

50 papers	13,687 citations	87886 38 h-index	206102 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 (Ti₃C₂T_x 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 Ti₃C₂T_x 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 Mo₄VAlC₄ MAX Phase and Two-Dimensional Mo₄VC₄ 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 Ti₃C₂ MXene. ACS Nano, 2021, 15, 6420-6429.	14.6	417
8	Layerâ€byâ€Layer Assembly of Crossâ€Functional Semiâ€transparent MXeneâ€Carbon Nanotubes Composite Films for Nextâ€Generation Electromagnetic Interference Shielding. Advanced Functional Materials, 2018, 28, 1803360.	14.9	407
9	Saturable Absorption in 2D Ti₃C₂ 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 Ti₃SiC₂ (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	Ti₃C₂T_x 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 Ti₃C₂MXene. 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 Ti₃AlC₂ MAX Phase on Structure and Properties of Resultant Ti₃C₂T_x MXene. ACS Applied Nano Materials, 2019, 2, 3368-3376.	5.0	210

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19	Tailoring Electronic and Optical Properties of MXenes through Forming Solid Solutions. Journal of the American Chemical Society, 2020, 142, 19110-19118.	13.7	198
20	Two-Dimensional Ti₃C₂ MXene for High-Resolution Neural Interfaces. ACS Nano, 2018, 12, 10419-10429.	14.6	173
21	SnO₂â€“Ti₃C₂ MXene electron transport layers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 5635-5642.	10.3	173
22	Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. Chemistry of Materials, 2019, 31, 2941-2951.	6.7	160
23	Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. ACS Sensors, 2019, 4, 1365-1372.	7.8	154
24	Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dipâ€Coating. Advanced Functional Materials, 2019, 29, 1809223.	14.9	148
25	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. ACS Energy Letters, 2018, 3, 2094-2100.	17.4	145
26	Selective Etching of Silicon from Ti₃SiC₂ (MAX) To Obtain 2D Titanium Carbide (MXene). Angewandte Chemie, 2018, 130, 5542-5546.	2.0	127
27	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. Matter, 2020, 3, 546-557.	10.0	127
28	A 2D Titanium Carbide MXene Flexible Electrode for Highâ€Efficiency Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2000919.	21.0	122
29	The Broad Chromatic Range of Twoâ€Dimensional Transition Metal Carbides. Advanced Optical Materials, 2021, 9, 2001563.	7.3	118
30	Onâ€Chip MXene Microsupercapacitors for ACâ€Line Filtering Applications. Advanced Energy Materials, 2019, 9, 1901061.	19.5	113
31	Direct Writing of Additiveâ€Free MXeneâ€inâ€Water Ink for Electronics and Energy Storage. Advanced Materials Technologies, 2019, 4, 1800256.	5.8	112
32	Twoâ€Dimensional Arrays of Transition Metal Nitride Nanocrystals. Advanced Materials, 2019, 31, e1902393.	21.0	93
33	Interfacial Assembly of Ultrathin, Functional MXene Films. ACS Applied Materials & Interfaces, 2019, 11, 32320-32327.	8.0	91
34	Mechanically strong and electrically conductive multilayer MXene nanocomposites. Nanoscale, 2019, 11, 20295-20300.	5.6	81
35	2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. Batteries and Supercaps, 2018, 1, 33-38.	4.7	72
36	Microsupercapacitor with a 500Ânm gap between MXene/CNT electrodes. Nano Energy, 2021, 81, 105616.	16.0	61

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37	Sculpting Liquids with Two-Dimensional Materials: The Assembly of Ti₃C₂T_x MXene Sheets at Liquidâ€“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 Gelâ€Free Ti₃C₂T_xâ€Based Electrode Array for Highâ€Density, Highâ€Resolution Surface Electromyography. Advanced Materials Technologies, 2020, 5, 2000325.	5.8	39
40	An aqueous 2.1 V pseudocapacitor with MXene and V-MnO2 electrodes. Nano Research, 2022, 15, 535-541.	10.4	31
41	2D Titanium Carbide (Ti₃C₂T_x) in Accommodating Intraocular Lens Design. Advanced Functional Materials, 2020, 30, 2000841.	14.9	26
42	Intercalationâ€Induced Reversible Electrochromic Behavior of Twoâ€Dimensional Ti₃C₂T_x MXene in Organic Electrolytes. ChemElectroChem, 2021, 8, 151-156.	3.4	21
43	Charge Dynamics in TiO₂/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 Ti₃C₂ 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