

Kathleen Maleski

List of Publications by Year in descending order

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papers

13,687
citations

87888

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all docs

50
docs citations

50
times ranked

10432
citing authors

#	ARTICLE	IF	CITATIONS
1	An aqueous 2.1 V pseudocapacitor with MXene and V-MnO ₂ electrodes. Nano Research, 2022, 15, 535-541.	10.4	31
2	Shifts in valence states in bimetallic MXenes revealed by electron energy-loss spectroscopy (EELS). 2D Materials, 2022, 9, 025004.	4.4	11
3	Delamination of MXenes using bovine serum albumin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128580.	4.7	15
4	The Broad Chromatic Range of Two-Dimensional Transition Metal Carbides. Advanced Optical Materials, 2021, 9, 2001563.	7.3	118
5	Intercalation-Induced Reversible Electrochromic Behavior of Two-Dimensional Ti ₃ C ₂ T _x MXene in Organic Electrolytes. ChemElectroChem, 2021, 8, 151-156.	3.4	21
6	Microsupercapacitor with a 500 Ånm gap between MXene/CNT electrodes. Nano Energy, 2021, 81, 105616.	16.0	61
7	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive Ti ₃ C ₂ MXene. ACS Nano, 2021, 15, 6420-6429.	14.6	417
8	Charge Dynamics in TiO ₂ /MXene Composites. Journal of Physical Chemistry C, 2021, 125, 10473-10482.	3.1	20
9	Synthesis of Mo ₄ AlC ₄ MAX Phase and Two-Dimensional Mo ₄ VC ₄ MXene with Five Atomic Layers of Transition Metals. ACS Nano, 2020, 14, 204-217.	14.6	429
10	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. Matter, 2020, 3, 546-557.	10.0	127
11	Tailoring Electronic and Optical Properties of MXenes through Forming Solid Solutions. Journal of the American Chemical Society, 2020, 142, 19110-19118.	13.7	198
12	2D Titanium Carbide (Ti ₃ C ₂ T _x) in Accommodating Intraocular Lens Design. Advanced Functional Materials, 2020, 30, 2000841.	14.9	26
13	A Gel-Free Ti ₃ C ₂ T _x -Based Electrode Array for High-Density, High-Resolution Surface Electromyography. Advanced Materials Technologies, 2020, 5, 2000325.	5.8	39
14	Tunable electrochromic behavior of titanium-based MXenes. Nanoscale, 2020, 12, 14204-14212.	5.6	42
15	Fabrication of Ti ₃ C ₂ MXene Microelectrode Arrays for In Vivo Neural Recording. Journal of Visualized Experiments, 2020, , .	0.3	15
16	Ti ₃ C ₂ MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. ACS Nano, 2020, 14, 3576-3586.	14.6	277
17	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. Advanced Materials, 2020, 32, e2000919.	21.0	122
18	Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304.	3.0	1

#	ARTICLE	IF	CITATIONS
19	Interfacial Assembly of Ultrathin, Functional MXene Films. ACS Applied Materials & Interfaces, 2019, 11, 32320-32327.	8.0	91
20	Sculpting Liquids with Two-Dimensional Materials: The Assembly of $\text{Ti}_3\text{C}_2\text{Tx}$ MXene Sheets at Liquid-Liquid Interfaces. ACS Nano, 2019, 13, 12385-12392.	14.6	52
21	Optical Properties of MXenes. , 2019, , 327-346.		12
22	Top-Down MXene Synthesis (Selective Etching). , 2019, , 69-87.		16
23	$\text{SnO}_2/\text{Ti}_3\text{C}_2$ MXene electron transport layers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 5635-5642.	10.3	173
24	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. Advanced Materials, 2019, 31, e1902393.	21.0	93
25	On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. Advanced Energy Materials, 2019, 9, 1901061.	19.5	113
26	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
27	Effect of Ti_3AlC_2 MAX Phase on Structure and Properties of Resultant $\text{Ti}_3\text{C}_2\text{Tx}$ MXene. ACS Applied Nano Materials, 2019, 2, 3368-3376.	5.0	210
28	Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dip-Coating. Advanced Functional Materials, 2019, 29, 1809223.	14.9	148
29	Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. Chemistry of Materials, 2019, 31, 2941-2951.	6.7	160
30	An investigation into the factors governing the oxidation of two-dimensional Ti_3C_2 MXene. Nanoscale, 2019, 11, 8387-8393.	5.6	276
31	Mechanically strong and electrically conductive multilayer MXene nanocomposites. Nanoscale, 2019, 11, 20295-20300.	5.6	81
32	Direct Writing of Additive-Free MXene in Water Ink for Electronics and Energy Storage. Advanced Materials Technologies, 2019, 4, 1800256.	5.8	112
33	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. ACS Nano, 2018, 12, 2685-2694.	14.6	288
34	Selective Etching of Silicon from Ti_3SiC_2 (MAX) To Obtain 2D Titanium Carbide (MXene). Angewandte Chemie - International Edition, 2018, 57, 5444-5448.	13.8	299
35	Metallic $\text{Ti}_3\text{C}_2\text{Tx}$ MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. ACS Nano, 2018, 12, 986-993.	14.6	1,153
36	Saturable Absorption in 2D Ti_3C_2 MXene Thin Films for Passive Photonic Diodes. Advanced Materials, 2018, 30, 1705714.	21.0	332

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37	2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. Batteries and Supercaps, 2018, 1, 33-38.	4.7	72
38	Selective Etching of Silicon from Ti ₃ SiC ₂ (MAX) To Obtain 2D Titanium Carbide (MXene). Angewandte Chemie, 2018, 130, 5542-5546.	2.0	127
39	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. Nano Energy, 2018, 44, 103-110.	16.0	273
40	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
41	Two-Dimensional Ti ₃ C ₂ MXene for High-Resolution Neural Interfaces. ACS Nano, 2018, 12, 10419-10429.	14.6	173
42	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. ACS Applied Materials & Interfaces, 2018, 10, 24491-24498.	8.0	275
43	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. ACS Energy Letters, 2018, 3, 2094-2100.	17.4	145
44	Dispersions of Two-Dimensional Titanium Carbide MXene in Organic Solvents. Chemistry of Materials, 2017, 29, 1632-1640.	6.7	667
45	Processing of Onion-like Carbon for Electrochemical Capacitors. ECS Journal of Solid State Science and Technology, 2017, 6, M3103-M3108.	1.8	14
46	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti ₃ C ₂ T _x MXene). Chemistry of Materials, 2017, 29, 7633-7644.	6.7	3,129
47	Two-Dimensional Titanium Carbide (MXene) as Surface-Enhanced Raman Scattering Substrate. Journal of Physical Chemistry C, 2017, 121, 19983-19988.	3.1	281
48	Nanodiamonds suppress the growth of lithium dendrites. Nature Communications, 2017, 8, 336.	12.8	327
49	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. Advanced Functional Materials, 2017, 27, 1701264.	14.9	1,354
50	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