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List of Publications by Year in descending order

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papers

14,482
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57758

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docs citations

80
times ranked

9495
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous Electrolytes, MXene-Based Supercapacitors and Their Self-Discharge. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100147.	5.8	11
2	MXene-based symmetric supercapacitors with high voltage and high energy density. <i>Materials Reports Energy</i> , 2022, 2, 100078.	3.2	10
3	Investigation of 2D Boridene from First Principles and Experiments. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	31
4	Effect of vacancies on the electrochemical behavior of Mo-based MXenes in aqueous supercapacitors. <i>Journal of Power Sources</i> , 2022, 525, 231064.	7.8	13
5	High-Entropy Laminate Metal Carbide (MAX Phase) and Its Two-Dimensional Derivative MXene. <i>Chemistry of Materials</i> , 2022, 34, 2098-2106.	6.7	60
6	Exploring the electrochemical behavior of Mo _{1.33} CTz MXene in aqueous sulfates electrolytes: Effect of intercalating cations on the stored charge. <i>Journal of Power Sources</i> , 2022, 531, 231302.	7.8	6
7	Colorless-to-colorful switching of electrochromic MXene by reversible ion insertion. <i>Nano Research</i> , 2022, 15, 3587-3593.	10.4	16
8	MXene//MnO ₂ Asymmetric Supercapacitors with High Voltages and High Energy Densities. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	4
9	MXene-based Zn-ion hybrid supercapacitors: Effects of anion carriers and MXene surface coatings on the capacities and life span. <i>Journal of Energy Storage</i> , 2022, 52, 104823.	8.1	12
10	Hydrogen Evolution Reaction for Vacancy-Ordered α -MXenes and the Impact of Proton Absorption into the Vacancies. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000158.	5.3	27
11	Tailored synthesis approach of (Mo _{2/3} Y _{1/3}) ₂ AlC <i>i</i> -MAX and its two-dimensional derivative Mo _{1.33} CT _z MXene: enhancing the yield, quality, and performance in supercapacitor applications. <i>Nanoscale</i> , 2021, 13, 311-319.	5.6	22
12	Fabrication of Mo _{1.33} CT _z (MXene) α -cellulose freestanding electrodes for supercapacitor applications. <i>Materials Advances</i> , 2021, 2, 743-753.	5.4	15
13	Boosting the volumetric capacitance of MoO _{3-x} free-standing films with Ti ₃ C ₂ MXene. <i>Electrochimica Acta</i> , 2021, 370, 137665.	5.2	34
14	Ultrafast, One-Step, Salt-Solution-Based Acoustic Synthesis of Ti ₃ C ₂ MXene. <i>ACS Nano</i> , 2021, 15, 4287-4293.	14.6	103
15	MXene manganese oxides aqueous asymmetric supercapacitors with high mass loadings, high cell voltages and slow self-discharge. <i>Energy Storage Materials</i> , 2021, 38, 438-446.	18.0	40
16	Acoustomicrofluidic Synthesis of Pristine Ultrathin Ti ₃ C ₂ T _z MXene Nanosheets and Quantum Dots. <i>ACS Nano</i> , 2021, 15, 12099-12108.	14.6	46
17	Boridene: Two-dimensional Mo _{4/3} B _{2-x} with ordered metal vacancies obtained by chemical exfoliation. <i>Science</i> , 2021, 373, 801-805.	12.6	126
18	Out-of-Plane Ordered Laminate Borides and Their 2D Ti-Based Derivative from Chemical Exfoliation. <i>Advanced Materials</i> , 2021, 33, e2008361.	21.0	14

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19	Enhanced supercapacitive performance of Mo _{1.33} C MXene based asymmetric supercapacitors in lithium chloride electrolyte. <i>Energy Storage Materials</i> , 2021, 41, 203-208.	18.0	30
20	Mixed MXenes: Mo _{1.33} CTz and Ti ₃ C ₂ Tz freestanding composite films for energy storage. <i>Nano Energy</i> , 2021, 88, 106271.	16.0	21
21	Improved charge storage performance of a layered Mo _{1.33} C MXene/MoS ₂ /graphene nanocomposite. <i>Nanoscale Advances</i> , 2021, 3, 6689-6695.	4.6	2
22	Flexible Free-Standing MoO ₃ /Ti ₃ C ₂ Tz MXene Composite Films with High Gravimetric and Volumetric Capacities. <i>Advanced Science</i> , 2021, 8, 2003656.	11.2	59
23	Mo _{1.33} CTz-Ti ₃ C ₂ Tz mixed MXene freestanding films for zinc-ion hybrid supercapacitors. <i>Materials Today Energy</i> , 2021, 22, 100878.	4.7	17
24	Composition Tuning of Nanostructured Binary Copper Selenides through Rapid Chemical Synthesis and Their Thermoelectric Property Evaluation. <i>Nanomaterials</i> , 2020, 10, 854.	4.1	17
25	How Much Oxygen Can a MXene Surface Take Before It Breaks?. <i>Advanced Functional Materials</i> , 2020, 30, 1909005.	14.9	111
26	XPS of cold pressed multilayered and freestanding delaminated 2D thin films of Mo ₂ TiC ₂ Tz and Mo ₂ Ti ₂ C ₃ Tz (MXenes). <i>Applied Surface Science</i> , 2019, 494, 1138-1147.	6.1	58
27	Synthesis of (V _{2/3} Sc _{1/3}) ₂ AlC i-MAX phase and V _{2x} MXene scrolls. <i>Nanoscale</i> , 2019, 11, 14720-14726.	5.6	52
28	Theoretical Analysis, Synthesis, and Characterization of 2D W _{1.33} C (MXene) with Ordered Vacancies. <i>ACS Applied Nano Materials</i> , 2019, 2, 6209-6219.	5.0	37
29	Electronic and optical characterization of 2D Ti ₂ C and Nb ₂ C (MXene) thin films. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 165301.	1.8	74
30	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. <i>Nano Energy</i> , 2019, 60, 734-742.	16.0	124
31	A Tungsten-Based Nanolaminated Ternary Carbide: (W,Ti) ₄ C ₄ . <i>Inorganic Chemistry</i> , 2019, 58, 1100-1106.	4.0	9
32	2D Transition Metal Carbides (MXenes) for Carbon Capture. <i>Advanced Materials</i> , 2019, 31, e1805472.	21.0	184
33	Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of In-plane, Chemically Ordered MAX Phases. <i>Small</i> , 2018, 14, e1703676.	10.0	174
34	W-Based Atomic Laminates and Their 2D Derivative W _{1.33} C MXene with Vacancy Ordering. <i>Advanced Materials</i> , 2018, 30, e1706409.	21.0	240
35	Two-Dimensional Molybdenum Carbide (MXene) with Divacancy Ordering for Brackish and Seawater Desalination via Cation and Anion Intercalation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3739-3747.	6.7	183
36	Chemical bonding in carbide MXene nanosheets. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 27-32.	1.7	64

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37	On the organization and thermal behavior of functional groups on Ti ₃ C ₂ MXene surfaces in vacuum. 2D Materials, 2018, 5, 015002.	4.4	219
38	Sodium hydroxide and vacuum annealing modifications of the surface terminations of a Ti ₃ C ₂ (MXene) epitaxial thin film. RSC Advances, 2018, 8, 36785-36790.	3.6	49
39	Variable range hopping and thermally activated transport in molybdenum-based MXenes. Physical Review B, 2018, 98, .	3.2	66
40	On the Structural Stability of MXene and the Role of Transition Metal Adatoms. Nanoscale, 2018, 10, 10850-10855.	5.6	71
41	Synthesis of Two-Dimensional Nb _{1.33} C (MXene) with Randomly Distributed Vacancies by Etching of the Quaternary Solid Solution (Nb _{2/3} Sc _{1/3}) ₂ AlC MAX Phase. ACS Applied Nano Materials, 2018, 1, 2455-2460.	5.0	154
42	Two-Dimensional Titanium Carbide MXene As a Cathode Material for Hybrid Magnesium/Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4296-4300.	8.0	188
43	Alkylammonium Cation Intercalation into Ti ₃ C ₂ (MXene): Effects on Properties and Ion-Exchange Capacity Estimation. Chemistry of Materials, 2017, 29, 1099-1106.	6.7	188
44	Controlling the conductivity of Ti ₃ C ₂ MXenes by inductively coupled oxygen and hydrogen plasma treatment and humidity. RSC Advances, 2017, 7, 13097-13103.	3.6	79
45	Interaction of Polar and Nonpolar Polyfluorenes with Layers of Two-Dimensional Titanium Carbide (MXene): Intercalation and Pseudocapacitance. Chemistry of Materials, 2017, 29, 2731-2738.	6.7	170
46	Rendering Ti ₃ C ₂ Ti _x (MXene) monolayers visible. Materials Research Letters, 2017, 5, 322-328.	8.7	41
47	First-order Raman scattering in three-layered Mo-based ternaries: MoAlB, Mo ₂ Ga ₂ C and Mo ₂ GaC. Journal of Raman Spectroscopy, 2017, 48, 631-638.	2.5	37
48	Two-dimensional Mo _{1.33} C MXene with divacancy ordering prepared from parent 3D laminate with in-plane chemical ordering. Nature Communications, 2017, 8, 14949.	12.8	525
49	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. Nature Energy, 2017, 2, .	39.5	1,626
50	Structure and thermal expansion of (Cr _x V _{1-x}) _{n+1} AlC _n phases measured by X-ray diffraction. Journal of the European Ceramic Society, 2017, 37, 15-21.	5.7	22
51	Electrode Surface Composition of Dual-Intercalation, All-Graphite Batteries. Journal of Carbon Research, 2017, 3, 5.	2.7	9
52	Investigation of vacancy-ordered $M_{1.33}O_2$ MXene from first principles and x-ray photoelectron spectroscopy. Physical Review Materials, 2017, 1, .	2.4	36
53	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). Advanced Functional Materials, 2016, 26, 3118-3127.	14.9	945
54	Fabrication of Ti ₃ C ₂ Ti _x MXene Transparent Thin Films with Tunable Optoelectronic Properties. Advanced Electronic Materials, 2016, 2, 1600050.	5.1	587

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55	Porous Two-Dimensional Transition Metal Carbide (MXene) Flakes for High-Performance Li-Ion Storage. ChemElectroChem, 2016, 3, 689-693.	3.4	452
56	Electronic properties of freestanding Ti ₃ C ₂ MXene monolayers. Applied Physics Letters, 2016, 108, .	3.3	171
57	Ion-Exchange and Cation Solvation Reactions in Ti ₃ C ₂ MXene. Chemistry of Materials, 2016, 28, 3507-3514.	6.7	499
58	Two-Dimensional Nb-Based M ₄ C ₃ Solid Solutions (MXenes). Journal of the American Ceramic Society, 2016, 99, 660-666.	3.8	234
59	X-ray photoelectron spectroscopy of select multi-layered transition metal carbides (MXenes). Applied Surface Science, 2016, 362, 406-417.	6.1	1,369
60	Synthesis of the new MAX phase Zr ₂ AlC. Journal of the European Ceramic Society, 2016, 36, 1847-1853.	5.7	116
61	Synthesis of the novel Zr ₃ AlC ₂ MAX phase. Journal of the European Ceramic Society, 2016, 36, 943-947.	5.7	98
62	Experimental and theoretical characterization of ordered MAX phases Mo ₂ TiAlC ₂ and Mo ₂ Ti ₂ AlC ₃ . Journal of Applied Physics, 2015, 118, .	2.5	217
63	On the Rapid Synthesis of the Ternary Mo ₂ GaC. Journal of the American Ceramic Society, 2015, 98, 2713-2715.	3.8	23
64	Mo ₂ Ga ₂ C: a new ternary nanolaminated carbide. Chemical Communications, 2015, 51, 6560-6563.	4.1	141
65	Synthesis of two-dimensional molybdenum carbide, Mo ₂ C, from the gallium based atomic laminate Mo ₂ Ga ₂ C. Scripta Materialia, 2015, 108, 147-150.	5.2	329
66	Atomically Resolved Structural and Chemical Investigation of Single MXene Sheets. Nano Letters, 2015, 15, 4955-4960.	9.1	415
67	Mo ₂ TiAlC ₂ : A new ordered layered ternary carbide. Scripta Materialia, 2015, 101, 5-7.	5.2	153
68	New Solid Solution MAX Phases: (Ti _{0.5} , V _{0.5}) ₃ AlC ₂ , (Nb _{0.5} , V _{0.5}) ₂ AlC, (Nb _{0.5} , V _{0.5}) ₃ AlC. Journal of Applied Physics, 2015, 118, 101011.	8.7	111
69	Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases. Angewandte Chemie - International Edition, 2014, 53, 4877-4880.	13.8	133
70	Transparent Conductive Two-Dimensional Titanium Carbide Epitaxial Thin Films. Chemistry of Materials, 2014, 26, 2374-2381.	6.7	1,173
71	New Two-Dimensional Niobium and Vanadium Carbides as Promising Materials for Li-Ion Batteries. Journal of the American Chemical Society, 2013, 135, 15966-15969.	13.7	1,609
72	Electrodeposition and Characterization of Nanocrystalline Ni-Mo Catalysts for Hydrogen Production. Journal of Nanomaterials, 2012, 2012, 1-9.	2.7	49

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73	Surface morphology and electrochemical characterization of electrodeposited Ni-Mo nanocomposites as cathodes for hydrogen evolution. Journal of Alloys and Compounds, 2012, 530, 85-90.	5.5	49