

Babak Anasori

List of Publications by Year in descending order

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docs citations

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times ranked

21574
citing authors

#	ARTICLE	IF	CITATIONS
1	2D metal carbides and nitrides (MXenes) for energy storage. Nature Reviews Materials, 2017, 2, .	23.3	5,261
2	Electromagnetic interference shielding with 2D transition metal carbides (MXenes). Science, 2016, 353, 1137-1140.	6.0	3,688
3	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti_3C_2Tx MXene). Chemistry of Materials, 2017, 29, 7633-7644.	3.2	3,129
4	The Rise of MXenes. ACS Nano, 2019, 13, 8491-8494.	7.3	1,399
5	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). ACS Nano, 2015, 9, 9507-9516.	7.3	1,395
6	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. Advanced Functional Materials, 2017, 27, 1701264.	7.8	1,354
7	Metallic Ti_3C_2Tx MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. ACS Nano, 2018, 12, 986-993.	7.3	1,153
8	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). Chemistry of Materials, 2017, 29, 4848-4856.	3.2	1,120
9	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. ACS Energy Letters, 2016, 1, 589-594.	8.8	1,100
10	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. Nature, 2018, 557, 409-412.	13.7	965
11	Synthesis of two-dimensional titanium nitride Ti_4N_3 (MXene). Nanoscale, 2016, 8, 11385-11391.	2.8	878
12	Pseudocapacitive Electrodes Produced by Oxidant-Free Polymerization of Pyrrole between the Layers of 2D Titanium Carbide (MXene). Advanced Materials, 2016, 28, 1517-1522.	11.1	850
13	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-ion Storage. Advanced Materials, 2017, 29, 1702410.	11.1	757
14	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. Advanced Materials, 2017, 29, 1702678.	11.1	756
15	Control of MXenes'™ electronic properties through termination and intercalation. Nature Communications, 2019, 10, 522.	5.8	721
16	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. Nano Energy, 2016, 26, 513-523.	8.2	710
17	Additive-free MXene inks and direct printing of micro-supercapacitors. Nature Communications, 2019, 10, 1795.	5.8	649
18	Elastic properties of 2D Ti_3C_2Tx MXene monolayers and bilayers. Science Advances, 2018, 4, eaat0491.	4.7	637

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19	Fabrication of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Transparent Thin Films with Tunable Optoelectronic Properties. <i>Advanced Electronic Materials</i> , 2016, 2, 1600050.	2.6	587
20	All-MXene (2D titanium carbide) solid-state microsupercapacitors for on-chip energy storage. <i>Energy and Environmental Science</i> , 2016, 9, 2847-2854.	15.6	551
21	MoS_2 MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1846-1850.	7.2	520
22	Beyond $\text{Ti}_3\text{C}_2\text{T}_x$: MXenes for Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020, 14, 5008-5016.	7.3	489
23	Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers. <i>Advanced Materials</i> , 2017, 29, 1702496.	11.1	475
24	Self-Assembly of Transition Metal Oxide Nanostructures on MXene Nanosheets for Fast and Stable Lithium Storage. <i>Advanced Materials</i> , 2018, 30, e1707334.	11.1	467
25	Porous Two-Dimensional Transition Metal Carbide (MXene) Flakes for High-Performance Li-Ion Storage. <i>ChemElectroChem</i> , 2016, 3, 689-693.	1.7	452
26	Synthesis of Mo_4VAlC_4 MAX Phase and Two-Dimensional Mo_4VC_4 MXene with Five Atomic Layers of Transition Metals. <i>ACS Nano</i> , 2020, 14, 204-217.	7.3	429
27	Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. <i>Advanced Functional Materials</i> , 2018, 28, 1705506.	7.8	427
28	Control of electronic properties of 2D carbides (MXenes) by manipulating their transition metal layers. <i>Nanoscale Horizons</i> , 2016, 1, 227-234.	4.1	394
29	MXene-Bonded Activated Carbon as a Flexible Electrode for High-Performance Supercapacitors. <i>ACS Energy Letters</i> , 2018, 3, 1597-1603.	8.8	389
30	2D titanium carbide (MXene) for wireless communication. <i>Science Advances</i> , 2018, 4, eaau0920.	4.7	381
31	Rational Design of Two-Dimensional Transition Metal Carbide/Nitride (MXene) Hybrids and Nanocomposites for Catalytic Energy Storage and Conversion. <i>ACS Nano</i> , 2020, 14, 10834-10864.	7.3	349
32	Saturable Absorption in 2D Ti_3C_2 MXene Thin Films for Passive Photonic Diodes. <i>Advanced Materials</i> , 2018, 30, 1705714.	11.1	332
33	2D molybdenum and vanadium nitrides synthesized by ammoniation of 2D transition metal carbides (MXenes). <i>Nanoscale</i> , 2017, 9, 17722-17730.	2.8	327
34	Asymmetric Flexible MXene-Reduced Graphene Oxide Micro-Supercapacitor. <i>Advanced Electronic Materials</i> , 2018, 4, 1700339.	2.6	324
35	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20038-20045.	4.0	323
36	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. <i>Advanced Functional Materials</i> , 2020, 30, 1910504.	7.8	308

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37	Tuning the Basal Plane Functionalization of Two-Dimensional Metal Carbides (MXenes) To Control Hydrogen Evolution Activity. ACS Applied Energy Materials, 2018, 1, 173-180.	2.5	304
38	High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. Chemistry of Materials, 2019, 31, 3324-3332.	3.2	296
39	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. Nano Energy, 2016, 30, 603-613.	8.2	293
40	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. ACS Nano, 2018, 12, 2685-2694.	7.3	288
41	A Critical Review of the Oxidation of Ti_2AlC , Ti_3AlC_2 and Cr_2AlC in Air. Materials Research Letters, 2013, 1, 115-125.	4.1	286
42	2D MXenes: Tunable Mechanical and Tribological Properties. Advanced Materials, 2021, 33, e2007973.	11.1	278
43	Ti_3C_2Tx MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. ACS Nano, 2020, 14, 3576-3586.	7.3	277
44	Tunable Magnetism and Transport Properties in Nitride MXenes. ACS Nano, 2017, 11, 7648-7655.	7.3	276
45	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. ACS Applied Materials & Interfaces, 2018, 10, 24491-24498.	4.0	275
46	Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. Chemistry of Materials, 2017, 29, 6472-6479.	3.2	270
47	Capacitance of Ti_3C_2Tx MXene in ionic liquid electrolyte. Journal of Power Sources, 2016, 326, 575-579.	4.0	250
48	Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. Advanced Optical Materials, 2019, 7, 1900267.	3.6	245
49	Experimental and theoretical characterization of ordered MAX phases Mo_2TiAlC_2 and $Mo_2Ti_2AlC_3$. Journal of Applied Physics, 2015, 118, .	1.1	217
50	MXene-Bonded Flexible Hard Carbon Film as Anode for Stable Na/K-ion Storage. Advanced Functional Materials, 2019, 29, 1906282.	7.8	214
51	Electrode material-ionic liquid coupling for electrochemical energy storage. Nature Reviews Materials, 2020, 5, 787-808.	23.3	210
52	Antimicrobial Mode-of-Action of Colloidal Ti_3C_2Tx MXene Nanosheets. ACS Sustainable Chemistry and Engineering, 2018, 6, 16586-16596.	3.2	205
53	Two-Dimensional Titanium Carbide MXene As a Cathode Material for Hybrid Magnesium/Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4296-4300.	4.0	188
54	Prediction of Synthesis of 2D Metal Carbides and Nitrides (MXenes) and Their Precursors with Positive and Unlabeled Machine Learning. ACS Nano, 2019, 13, 3031-3041.	7.3	187

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55	Layer-by-layer assembly of MXene and carbon nanotubes on electrospun polymer films for flexible energy storage. <i>Nanoscale</i> , 2018, 10, 6005-6013.	2.8	184
56	2H-MoS ₂ on Mo ₂ CT _x MXene Nanohybrid for Efficient and Durable Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2020, 14, 16140-16155.	7.3	180
57	Lithium-ion capacitors with 2D Nb ₂ CT _x (MXene) and carbon nanotube electrodes. <i>Journal of Power Sources</i> , 2016, 326, 686-694.	4.0	175
58	MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. <i>ACS Nano</i> , 2018, 12, 10518-10528.	7.3	174
59	Two-Dimensional Ti ₃ C ₂ MXene for High-Resolution Neural Interfaces. <i>ACS Nano</i> , 2018, 12, 10419-10429.	7.3	173
60	Na ⁺ Ion Intercalation and Charge Storage Mechanism in 2D Vanadium Carbide. <i>Advanced Energy Materials</i> , 2017, 7, 1700959.	10.2	168
61	Reduced graphene oxide as a multi-functional conductive binder for supercapacitor electrodes. <i>Energy Storage Materials</i> , 2018, 12, 128-136.	9.5	167
62	Rational Design of Two-Dimensional Metallic and Semiconducting Spintronic Materials Based on Ordered Double-Transition-Metal MXenes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 422-428.	2.1	165
63	High-Entropy 2D Carbide MXenes: TiVNbMoC ₃ and TiVCrMoC ₃ . <i>ACS Nano</i> , 2021, 15, 12815-12825.	7.3	162
64	Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. <i>Chemistry of Materials</i> , 2019, 31, 2941-2951.	3.2	160
65	Enhanced Terahertz Shielding of MXenes with Nanostructured Metamaterials. <i>Advanced Optical Materials</i> , 2018, 6, 1701076.	3.6	157
66	Inkjet Printing of Self-Assembled 2D Titanium Carbide and Protein Electrodes for Stimuli-Responsive Electromagnetic Shielding. <i>Advanced Functional Materials</i> , 2018, 28, 1801972.	7.8	157
67	Mo ₂ TiAlC ₂ : A new ordered layered ternary carbide. <i>Scripta Materialia</i> , 2015, 101, 5-7.	2.6	153
68	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. <i>Advanced Materials</i> , 2018, 30, e1801846.	11.1	149
69	High-Throughput Survey of Ordering Configurations in MXene Alloys Across Compositions and Temperatures. <i>ACS Nano</i> , 2017, 11, 4407-4418.	7.3	146
70	Vertically aligned MoS ₂ on Ti ₃ C ₂ (MXene) as an improved HER catalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16882-16889.	5.2	146
71	Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5260-5265.	5.2	142
72	Mo ₂ Ga ₂ C: a new ternary nanolaminated carbide. <i>Chemical Communications</i> , 2015, 51, 6560-6563.	2.2	141

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73	Double transition-metal MXenes: Atomistic design of two-dimensional carbides and nitrides. MRS Bulletin, 2020, 45, 850-861.	1.7	138
74	Electrochemical and in-situ X-ray diffraction studies of Ti ₃ C ₂ T _x MXene in ionic liquid electrolyte. Electrochemistry Communications, 2016, 72, 50-53.	2.3	134
75	Surface Modification of a MXene by an Aminosilane Coupling Agent. Advanced Materials Interfaces, 2020, 7, 1902008.	1.9	134
76	Porous Ti ₃ C ₂ T _x MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. ACS Applied Nano Materials, 2018, 1, 505-511.	2.4	132
77	Surface-Engineered MXenes: Electric Field Control of Magnetism and Enhanced Magnetic Anisotropy. ACS Nano, 2019, 13, 2831-2839.	7.3	126
78	In situ atomistic insight into the growth mechanisms of single layer 2D transition metal carbides. Nature Communications, 2018, 9, 2266.	5.8	125
79	Superior Wear-Resistance of Ti ₃ C ₂ T _x Multilayer Coatings. ACS Nano, 2021, 15, 8216-8224.	7.3	125
80	Two-Dimensional Titanium and Molybdenum Carbide MXenes as Electrocatalysts for CO ₂ Reduction. IScience, 2020, 23, 101181.	1.9	123
81	Ultra-microporous carbons encapsulate small sulfur molecules for high performance lithium-sulfur battery. Nano Energy, 2017, 33, 402-409.	8.2	120
82	Antimicrobial Properties of 2D MnO ₂ and MoS ₂ Nanomaterials Vertically Aligned on Graphene Materials and Ti ₃ C ₂ MXene. Langmuir, 2018, 34, 7192-7200.	1.6	111
83	Effects of Applied Potential and Water Intercalation on the Surface Chemistry of Ti ₂ C and Mo ₂ C MXenes. Journal of Physical Chemistry C, 2016, 120, 28432-28440.	1.5	104
84	Effect of glycine functionalization of 2D titanium carbide (MXene) on charge storage. Journal of Materials Chemistry A, 2018, 6, 4617-4622.	5.2	103
85	Voltage-Gated Ions Sieving through 2D MXene Ti ₃ C ₂ T _x Membranes. ACS Applied Nano Materials, 2018, 1, 3644-3652.	2.4	102
86	Tuning Noncollinear Spin Structure and Anisotropy in Ferromagnetic Nitride MXenes. ACS Nano, 2018, 12, 6319-6325.	7.3	101
87	Ti ₃ C ₂ MXene-polymer nanocomposites and their applications. Journal of Materials Chemistry A, 2021, 9, 8051-8098.	5.2	92
88	Scalable Manufacturing of Large and Flexible Sheets of MXene/Graphene Heterostructures. Advanced Materials Technologies, 2019, 4, 1800639.	3.0	90
89	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides "solid solution MXenes. Journal of Materials Chemistry A, 2020, 8, 8957-8968.	5.2	90
90	Magnesium-Ion Storage Capability of MXenes. ACS Applied Energy Materials, 2019, 2, 1572-1578.	2.5	89

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91	Electrochemical in Situ Tracking of Volumetric Changes in Two-Dimensional Metal Carbides (MXenes) in Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32089-32093.	4.0	87
92	Role of acid mixtures etching on the surface chemistry and sodium ion storage in Ti_3C_2Tx MXene. <i>Chemical Communications</i> , 2020, 56, 6090-6093.	2.2	76
93	2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. <i>Batteries and Supercaps</i> , 2018, 1, 33-38.	2.4	72
94	Influence of operating conditions on the desalination performance of a symmetric pre-conditioned Ti_3C_2T MXene membrane capacitive deionization system. <i>Desalination</i> , 2020, 477, 114267.	4.0	71
95	Electrically conductive 3D printed Ti_3C_2T MXene-PEG composite constructs for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2022, 139, 179-189.	4.1	70
96	MoS_2 on MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 1864-1868.	1.6	67
97	Reactivity of Zircaloy-4 with Ti_3SiC_2 and Ti_2AlC in the 1100–1300 °C temperature range. <i>Journal of Nuclear Materials</i> , 2015, 460, 122-129.	1.3	65
98	Interface binding and mechanical properties of MXene-epoxy nanocomposites. <i>Composites Science and Technology</i> , 2020, 192, 108124.	3.8	64
99	Solid Solubility and Magnetism upon Mn Incorporation in the Bulk Ternary Carbides Cr_2AlC and Cr_2GaC . <i>Materials Research Letters</i> , 2015, 3, 16-22.	4.1	62
100	Nanoindentation of monolayer Ti_3C_2T MXenes via atomistic simulations: The role of composition and defects on strength. <i>Computational Materials Science</i> , 2019, 157, 168-174.	1.4	61
101	Enhanced Ionic Accessibility of Flexible MXene Electrodes Produced by Natural Sedimentation. <i>Nano-Micro Letters</i> , 2020, 12, 89.	14.4	61
102	Oxidized Ti_3C_2 MXene nanosheets for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2018, 42, 16446-16450.	1.4	60
103	Fabrication and mechanical properties of pressureless melt infiltrated magnesium alloy composites reinforced with TiC and Ti_2AlC particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 511-522.	2.6	59
104	Effect of Synthesis on Performance of MXene/Iron Oxide Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , 2018, 34, 11325-11334.	1.6	58
105	Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , 2016, 1, 1094-1099.	8.8	57
106	Micromechanical response of two-dimensional transition metal carbonitride (MXene) reinforced epoxy composites. <i>Composites Part B: Engineering</i> , 2020, 182, 107603.	5.9	55
107	Sculpting Liquids with Two-Dimensional Materials: The Assembly of Ti_3C_2Tx MXene Sheets at Liquid-Liquid Interfaces. <i>ACS Nano</i> , 2019, 13, 12385-12392.	7.3	52
108	Evidence of a magnetic transition in atomically thin Cr_2Ti_2Tx MXene. <i>Nanoscale Horizons</i> , 2020, 5, 1557-1565.	4.1	51

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109	2D Titanium Carbide (MXene) Based Films: Expanding the Frontier of Functional Film Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2105043.	7.8	50
110	All-Printed MXeneâ€“Graphene Nanosheet-Based Bimodal Sensors for Simultaneous Strain and Temperature Sensing. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2341-2348.	2.0	48
111	Nacre-Mimetic, Mechanically Flexible, and Electrically Conductive Silk Fibroin-MXene Composite Foams as Piezoresistive Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34996-35007.	4.0	47
112	Nanocrystalline Mgâ€“MAX composites: Mechanical behavior characterization via acoustic emission monitoring. <i>Acta Materialia</i> , 2011, 59, 5716-5727.	3.8	46
113	Enhancement of $Ti_{3}C_{2}$ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5079-5086.	1.5	46
114	Introduction to 2D Transition Metal Carbides and Nitrides (MXenes). , 2019, , 3-12.		43
115	Colloidal Gelation in Liquid Metals Enables Functional Nanocomposites of 2D Metal Carbides (MXenes) and Lightweight Metals. <i>ACS Nano</i> , 2019, 13, 12415-12424.	7.3	41
116	Electrocatalytic CO_{2} reduction on earth abundant 2D $Mo_{2}C$ and $Ti_{3}C_{2}$ MXenes. <i>Chemical Communications</i> , 2021, 57, 1675-1678.	2.2	40
117	Graphene â€“ transition metal oxide hybrid materials. <i>Materials Today</i> , 2014, 17, 253-254.	8.3	39
118	Tensile creep of $Ti_{2}AlC$ in air in the temperature range 1000â€“1150Å°C. <i>Scripta Materialia</i> , 2012, 66, 805-808.	2.6	37
119	Covalent Surface Modification of $Ti_{3}C_{2}T_{x}$ MXene with Chemically Active Polymeric Ligands Producing Highly Conductive and Ordered Microstructure Films. <i>ACS Nano</i> , 2021, 15, 19600-19612.	7.3	37
120	Temperature-dependent mechanical properties of $Ti_{n+1}C_{n}O_{2}$ ($n = 1, 2$) MXene monolayers: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3414-3424.	1.3	35
121	2D transition metal carbides (MXenes) in metal and ceramic matrix composites. <i>Nano Convergence</i> , 2021, 8, 16.	6.3	33
122	Enhanced electrochemical performance of vanadium carbide MXene composites for supercapacitors. <i>APL Materials</i> , 2022, 10, .	2.2	32
123	Distinguishing electronic contributions of surface and sub-surface transition metal atoms in Ti-based MXenes. <i>2D Materials</i> , 2020, 7, 025015.	2.0	31
124	Oxidized 2D titanium carbide MXene. <i>Materials Today</i> , 2018, 21, 1064-1065.	8.3	30
125	$Al_{2}O_{3}$ â€“self-coatedâ€“iron powder composites via mechanical milling. <i>Journal of Alloys and Compounds</i> , 2015, 653, 61-68.	2.8	29
126	$Ti_{3}C_{2}T$ solid lubricant coatings in rolling bearings with remarkable performance beyond state-of-the-art materials. <i>Applied Materials Today</i> , 2021, 25, 101202.	2.3	28

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127	In situ neutron diffraction evidence for fully reversible dislocation motion in highly textured polycrystalline Ti ₂ AlC samples. <i>Acta Materialia</i> , 2015, 98, 51-63.	3.8	27
128	High-temperature stability and phase transformations of titanium carbide (Ti ₃ C ₂ T _x) MXene. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 224002.	0.7	26
129	On the interactions of Ti ₂ AlC, Ti ₃ AlC ₂ , Ti ₃ SiC ₂ and Cr ₂ AlC with silicon carbide and pyrolytic carbon at 1300 Å°C. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4107-4114.	2.8	24
130	Energy damping in magnesium alloy composites reinforced with TiC or Ti ₂ AlC particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 653, 53-62.	2.6	24
131	2D metal carbides (MXenes) in fibers. <i>Materials Today</i> , 2017, 20, 481-482.	8.3	24
132	Spherical nanoindentation study of the deformation micromechanisms of LiTaO ₃ single crystals. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	21
133	Reactions Between Ti ₂ AlC, B ₄ C, and Al and Phase Equilibria at 1000Å°C in the Al-Ti-B-C Quaternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2015, 36, 169-182.	0.5	17
134	Synthesis and characterization of the mechanical properties of Ti ₃ SiC ₂ /Mg and Cr ₂ AlC/Mg alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 705, 182-188.	2.6	17
135	Fabrication, biodegradation behavior and cytotoxicity of Mg-nanodiamond composites for implant application. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 110.	1.7	15
136	Fabrication of Ti ₃ C ₂ MXene Microelectrode Arrays for In Vivo Neural Recording. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	15
137	In Situ Nâ€Doped Graphene and Mo Nanoribbon Formation from Mo ₂ Ti ₂ C ₃ MXene Monolayers. <i>Small</i> , 2020, 16, e1907115.	5.2	14
138	Mechanical and elastic properties of fine-grained polycrystalline scandia and erbia as determined by indentation techniques. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1703-1712.	2.8	11
139	Microscale deformation of (001) and (100) rutile single crystals under spherical nanoindentation. <i>Journal of Materials Research</i> , 2012, 27, 53-63.	1.2	11
140	A Tungsten-Based Nanolaminated Ternary Carbide: (W,Ti) ₄ C ₄ . <i>Inorganic Chemistry</i> , 2019, 58, 1100-1106.	1.9	9
141	Reconstruction of fatigue crack growth in AA2024-T3 and AA2198-T8 fastened lap joints. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 82, 33-50.	2.1	8
142	Microelectronics: Stamping of Flexible, Coplanar Microâ€Supercapacitors Using MXene Inks (Adv. Funct.) Tj ETQq0,0,0 rgBT /Overlock 1	7.8	8
143	Direct Correlation of MXene Surface Chemistry and Electronic Properties. <i>Microscopy and Microanalysis</i> , 2018, 24, 1606-1607.	0.2	8
144	Reversible dislocation motion and microcracking in plastically anisotropic solids under cyclic spherical nanoindentation. <i>MRS Communications</i> , 2013, 3, 245-248.	0.8	7

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145	Atomic Defects and Edge Structure in Single-layer Ti_3C_2Tx MXene. Microscopy and Microanalysis, 2017, 23, 1704-1705.	0.2	7
146	van der Waals epitaxy of highly (111)-oriented BaTiO ₃ on MXene. Nanoscale, 2019, 11, 622-630.	2.8	7
147	Self-assembly and in-situ characterization of Ti_3C_2T in Al: A step toward additive manufacturing of MXene-metal composites. Applied Materials Today, 2022, 27, 101451.	2.3	7
148	Fatigue Crack Growth in Aluminum Lithium Riveted Lap Joints. Procedia Engineering, 2014, 74, 413-416.	1.2	6
149	On the oxidation of Ti_2GeC in air. Journal of Alloys and Compounds, 2013, 580, 550-557.	2.8	5
150	Electrically Conductive MXene-Coated Glass Fibers for Damage Monitoring in Fiber-Reinforced Composites. Journal of Carbon Research, 2020, 6, 64.	1.4	5
151	Low-temperature annealing of 2D Ti_3C_2Tx MXene films using electron wind force in ambient conditions. Journal of Materials Research, 2021, 36, 3398-3406.	1.2	4
152	Nanocrystalline Mg-Matrix Composites with Ultrahigh Damping Properties. , 2011, , 463-468.		3
153	2D Materials: Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers (Adv. Mater.) Tj ETQq1 10.784314rgBT /O	11.1	1
154	Understanding and supporting the needs of early-career materials scientists. MRS Bulletin, 2020, 45, 969-971.	1.7	1
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