

# Babak Anasori

## List of Publications by Citations

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157  
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76  
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164  
ext. papers

36,406  
ext. citations

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L-index

#	Paper	IF	Citations
157	2D metal carbides and nitrides (MXenes) for energy storage. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	3469
156	Electromagnetic interference shielding with 2D transition metal carbides (MXenes). <i>Science</i> , <b>2016</b> , 353, 1137-40	33.3	2432
155	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene). <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7633-7644	9.6	1689
154	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701264	15.6	934
153	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). <i>ACS Nano</i> , <b>2015</b> , 9, 9507-16	16.7	923
152	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 589-594	20.1	752
151	Metallic TiCT MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. <i>ACS Nano</i> , <b>2018</b> , 12, 986-993	16.7	664
150	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4848-4856	9.6	652
149	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. <i>Nature</i> , <b>2018</b> , 557, 409-412	50.4	627
148	Pseudocapacitive Electrodes Produced by Oxidant-Free Polymerization of Pyrrole between the Layers of 2D Titanium Carbide (MXene). <i>Advanced Materials</i> , <b>2016</b> , 28, 1517-22	24	614
147	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702678	24	538
146	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. <i>Nano Energy</i> , <b>2016</b> , 26, 513-523	17.1	505
145	Synthesis of two-dimensional titanium nitride Ti <sub>4</sub> N <sub>3</sub> (MXene). <i>Nanoscale</i> , <b>2016</b> , 8, 11385-91	7.7	487
144	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-Ion Storage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702410	24	465
143	All-MXene (2D titanium carbide) solid-state microsupercapacitors for on-chip energy storage. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2847-2854	35.4	428
142	Additive-free MXene inks and direct printing of micro-supercapacitors. <i>Nature Communications</i> , <b>2019</b> , 10, 1795	17.4	407
141	Fabrication of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Transparent Thin Films with Tunable Optoelectronic Properties. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600050	6.4	407

140	Control of MXenes' electronic properties through termination and intercalation. <i>Nature Communications</i> , <b>2019</b> , 10, 522	17.4	380
139	Elastic properties of 2D TiCT MXene monolayers and bilayers. <i>Science Advances</i> , <b>2018</b> , 4, eaat0491	14.3	380
138	MoS <sub>2</sub> -on-MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1846-1850	16.4	375
137	Self-Assembly of Transition Metal Oxide Nanostructures on MXene Nanosheets for Fast and Stable Lithium Storage. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707334	24	324
136	Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705506	15.6	322
135	Porous Two-Dimensional Transition Metal Carbide (MXene) Flakes for High-Performance Li-Ion Storage. <i>ChemElectroChem</i> , <b>2016</b> , 3, 689-693	4.3	298
134	Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702496	24	295
133	MXene-Bonded Activated Carbon as a Flexible Electrode for High-Performance Supercapacitors. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1597-1603	20.1	265
132	Asymmetric Flexible MXene-Reduced Graphene Oxide Micro-Supercapacitor. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700339	6.4	244
131	Control of electronic properties of 2D carbides (MXenes) by manipulating their transition metal layers. <i>Nanoscale Horizons</i> , <b>2016</b> , 1, 227-234	10.8	242
130	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20038-20045	9.5	229
129	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. <i>Nano Energy</i> , <b>2016</b> , 30, 603-613	17.1	229
128	2D titanium carbide (MXene) for wireless communication. <i>Science Advances</i> , <b>2018</b> , 4, eaau0920	14.3	219
127	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. <i>ACS Nano</i> , <b>2020</b> , 14, 5008-5016	16.7	218
126	A Critical Review of the Oxidation of Ti <sub>2</sub> AlC, Ti <sub>3</sub> AlC <sub>2</sub> and Cr <sub>2</sub> AlC in Air. <i>Materials Research Letters</i> , <b>2013</b> , 1, 115-125	7.4	217
125	Saturable Absorption in 2D Ti C MXene Thin Films for Passive Photonic Diodes. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705714	24	213
124	Synthesis of MoVAIC MAX Phase and Two-Dimensional MoVC MXene with Five Atomic Layers of Transition Metals. <i>ACS Nano</i> , <b>2020</b> , 14, 204-217	16.7	198
123	Tuning the Basal Plane Functionalization of Two-Dimensional Metal Carbides (MXenes) To Control Hydrogen Evolution Activity. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 173-180	6.1	192

122	2D molybdenum and vanadium nitrides synthesized by ammoniation of 2D transition metal carbides (MXenes). <i>Nanoscale</i> , <b>2017</b> , 9, 17722-17730	7.7	192
121	Tunable Magnetism and Transport Properties in Nitride MXenes. <i>ACS Nano</i> , <b>2017</b> , 11, 7648-7655	16.7	190
120	Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6472-6479	9.6	163
119	Capacitance of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene in ionic liquid electrolyte. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 575-579	8.9	163
118	High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3324-3332	9.6	162
117	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. <i>ACS Nano</i> , <b>2018</b> , 12, 2685-2694	16.7	155
116	Rational Design of Two-Dimensional Transition Metal Carbide/Nitride (MXene) Hybrids and Nanocomposites for Catalytic Energy Storage and Conversion. <i>ACS Nano</i> , <b>2020</b> , 14, 10834-10864	16.7	152
115	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24491-24498	9.5	150
114	Two-Dimensional Titanium Carbide MXene As a Cathode Material for Hybrid Magnesium/Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4296-4300	9.5	149
113	Experimental and theoretical characterization of ordered MAX phases Mo <sub>2</sub> TiAlC <sub>2</sub> and Mo <sub>2</sub> Ti <sub>2</sub> AlC <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 094304	2.5	149
112	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910504	15.6	147
111	Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900267	8.1	138
110	Lithium-ion capacitors with 2D Nb <sub>2</sub> CT <sub>x</sub> (MXene) [carbon nanotube electrodes. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 686-694	8.9	138
109	TiCT MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. <i>ACS Nano</i> , <b>2020</b> , 14, 3576-3586	16.7	130
108	Reduced graphene oxide as a multi-functional conductive binder for supercapacitor electrodes. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 128-136	19.4	127
107	Layer-by-layer assembly of MXene and carbon nanotubes on electrospun polymer films for flexible energy storage. <i>Nanoscale</i> , <b>2018</b> , 10, 6005-6013	7.7	124
106	MXene-Bonded Flexible Hard Carbon Film as Anode for Stable Na/K-Ion Storage. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1906282	15.6	118
105	Rational Design of Two-Dimensional Metallic and Semiconducting Spintronic Materials Based on Ordered Double-Transition-Metal MXenes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 422-428	6.4	115

104	Na-Ion Intercalation and Charge Storage Mechanism in 2D Vanadium Carbide. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700959	21.8	113
103	Inkjet Printing of Self-Assembled 2D Titanium Carbide and Protein Electrodes for Stimuli-Responsive Electromagnetic Shielding. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801972	15.6	111
102	Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5260-5265	13	107
101	Mo <sub>2</sub> TiAlC <sub>2</sub> : A new ordered layered ternary carbide. <i>Scripta Materialia</i> , <b>2015</b> , 101, 5-7	5.6	104
100	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801846	11.8	104
99	MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. <i>ACS Nano</i> , <b>2018</b> , 12, 10518-10528	16.7	102
98	Enhanced Terahertz Shielding of MXenes with Nano-Metamaterials. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701076	8.1	100
97	Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2941-2951	9.6	98
96	High-Throughput Survey of Ordering Configurations in MXene Alloys Across Compositions and Temperatures. <i>ACS Nano</i> , <b>2017</b> , 11, 4407-4418	16.7	97
95	Mo <sub>2</sub> AlC: a new ternary nanolaminated carbide. <i>Chemical Communications</i> , <b>2015</b> , 51, 6560-3	5.8	96
94	Prediction of Synthesis of 2D Metal Carbides and Nitrides (MXenes) and Their Precursors with Positive and Unlabeled Machine Learning. <i>ACS Nano</i> , <b>2019</b> , 13, 3031-3041	16.7	95
93	Ultra-microporous carbons encapsulate small sulfur molecules for high performance lithium-sulfur battery. <i>Nano Energy</i> , <b>2017</b> , 33, 402-409	17.1	93
92	Electrochemical and in-situ X-ray diffraction studies of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , <b>2016</b> , 72, 50-53	5.1	92
91	Antimicrobial Mode-of-Action of Colloidal Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 16586-16596	8.3	92
90	Vertically aligned MoS <sub>2</sub> on Ti <sub>3</sub> C <sub>2</sub> (MXene) as an improved HER catalyst. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16882-16889	13	89
89	In situ atomistic insight into the growth mechanisms of single layer 2D transition metal carbides. <i>Nature Communications</i> , <b>2018</b> , 9, 2266	17.4	89
88	Electrode material in ionic liquid coupling for electrochemical energy storage. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 787-808	73.3	89
87	Porous Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 505-511	5.6	88

86	Antimicrobial Properties of 2D MnO and MoS Nanomaterials Vertically Aligned on Graphene Materials and TiC MXene. <i>Langmuir</i> , <b>2018</b> , 34, 7192-7200	4	86
85	2D MXenes: Tunable Mechanical and Tribological Properties. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007973	24	83
84	Two-Dimensional TiC MXene for High-Resolution Neural Interfaces. <i>ACS Nano</i> , <b>2018</b> , 12, 10419-10429	16.7	82
83	Effects of Applied Potential and Water Intercalation on the Surface Chemistry of Ti <sub>2</sub> C and Mo <sub>2</sub> C MXenes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 28432-28440	3.8	80
82	Surface-Engineered MXenes: Electric Field Control of Magnetism and Enhanced Magnetic Anisotropy. <i>ACS Nano</i> , <b>2019</b> , 13, 2831-2839	16.7	75
81	Effect of glycine functionalization of 2D titanium carbide (MXene) on charge storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4617-4622	13	74
80	Tuning Noncollinear Spin Structure and Anisotropy in Ferromagnetic Nitride MXenes. <i>ACS Nano</i> , <b>2018</b> , 12, 6319-6325	16.7	73
79	2H-MoS on MoCT MXene Nanohybrid for Efficient and Durable Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , <b>2020</b> , 14, 16140-16155	16.7	65
78	Surface Modification of a MXene by an Aminosilane Coupling Agent. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1902008	4.6	62
77	Scalable Manufacturing of Large and Flexible Sheets of MXene/Graphene Heterostructures. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800639	6.8	60
76	Electrochemical in Situ Tracking of Volumetric Changes in Two-Dimensional Metal Carbides (MXenes) in Ionic Liquids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32089-32093	9.5	60
75	Voltage-Gated Ions Sieving through 2D MXene Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Membranes. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3644-3652	5.6	58
74	Two-Dimensional Titanium and Molybdenum Carbide MXenes as Electrocatalysts for CO Reduction. <i>IScience</i> , <b>2020</b> , 23, 101181	6.1	56
73	MoS <sub>2</sub> -on-MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1864-1868	3.6	56
72	Solid Solubility and Magnetism upon Mn Incorporation in the Bulk Ternary Carbides Cr <sub>2</sub> AlC and Cr <sub>2</sub> GaC. <i>Materials Research Letters</i> , <b>2015</b> , 3, 16-22	7.4	54
71	Magnesium-Ion Storage Capability of MXenes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1572-1578	6.1	53
70	2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 33-38	5.6	52
69	Reactivity of Zircaloy-4 with Ti <sub>3</sub> SiC <sub>2</sub> and Ti <sub>2</sub> AlC in the 1100–1300 °C temperature range. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 460, 122-129	3.3	47

68	Fabrication and mechanical properties of pressureless melt infiltrated magnesium alloy composites reinforced with TiC and Ti <sub>2</sub> AlC particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 618, 511-522	5.3	42
67	High-Entropy 2D Carbide MXenes: TiVNbMoC and TiVCrMoC. <i>ACS Nano</i> , <b>2021</b> ,	16.7	42
66	Oxidized Ti <sub>3</sub> C <sub>2</sub> MXene nanosheets for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16446-16450	3.6	42
65	Nanocrystalline Mg/MAX composites: Mechanical behavior characterization via acoustic emission monitoring. <i>Acta Materialia</i> , <b>2011</b> , 59, 5716-5727	8.4	39
64	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides & solid solution MXenes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8957-8968	13	38
63	Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1094-1099	20.1	37
62	Double transition-metal MXenes: Atomistic design of two-dimensional carbides and nitrides. <i>MRS Bulletin</i> , <b>2020</b> , 45, 850-861	3.2	37
61	Superior Wear-Resistance of TiCT Multilayer Coatings. <i>ACS Nano</i> , <b>2021</b> , 15, 8216-8224	16.7	37
60	Influence of operating conditions on the desalination performance of a symmetric pre-conditioned Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> -MXene membrane capacitive deionization system. <i>Desalination</i> , <b>2020</b> , 477, 114267	10.3	35
59	Graphene & transition metal oxide hybrid materials. <i>Materials Today</i> , <b>2014</b> , 17, 253-254	21.8	34
58	Effect of Synthesis on Performance of MXene/Iron Oxide Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , <b>2018</b> , 34, 11325-11334	4	34
57	Tensile creep of Ti <sub>2</sub> AlC in air in the temperature range 1000–150°C. <i>Scripta Materialia</i> , <b>2012</b> , 66, 805-808	5.6	32
56	Micromechanical response of two-dimensional transition metal carbonitride (MXene) reinforced epoxy composites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 182, 107603	10	32
55	Colloidal Gelation in Liquid Metals Enables Functional Nanocomposites of 2D Metal Carbides (MXenes) and Lightweight Metals. <i>ACS Nano</i> , <b>2019</b> , 13, 12415-12424	16.7	31
54	Interface binding and mechanical properties of MXene-epoxy nanocomposites. <i>Composites Science and Technology</i> , <b>2020</b> , 192, 108124	8.6	31
53	Sculpting Liquids with Two-Dimensional Materials: The Assembly of TiCT MXene Sheets at Liquid-Liquid Interfaces. <i>ACS Nano</i> , <b>2019</b> , 13, 12385-12392	16.7	30
52	Enhanced Ionic Accessibility of Flexible MXene Electrodes Produced by Natural Sedimentation. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 89	19.5	30
51	Role of acid mixtures etching on the surface chemistry and sodium ion storage in TiCT MXene. <i>Chemical Communications</i> , <b>2020</b> , 56, 6090-6093	5.8	29



50	Nanoindentation of monolayer Ti C T MXenes via atomistic simulations: The role of composition and defects on strength. <i>Computational Materials Science</i> , <b>2019</b> , 157, 168-174	3.2	29
49	Introduction to 2D Transition Metal Carbides and Nitrides (MXenes) <b>2019</b> , 3-12		26
48	Electrically conductive 3D printed TiCT MXene-PEG composite constructs for cardiac tissue engineering. <i>Acta Biomaterialia</i> , <b>2020</b> , 139, 179-179	10.8	26
47	Ti3C2 MXene-polymer nanocomposites and their applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8051-8098	13	26
46	In situ neutron diffraction evidence for fully reversible dislocation motion in highly textured polycrystalline Ti2AlC samples. <i>Acta Materialia</i> , <b>2015</b> , 98, 51-63	8.4	25
45	Al2O3 self-coated iron powder composites via mechanical milling. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 653, 61-68	5.7	25
44	Oxidized 2D titanium carbide MXene. <i>Materials Today</i> , <b>2018</b> , 21, 1064-1065	21.8	23
43	Temperature-dependent mechanical properties of TiCO (n = 1, 2) MXene monolayers: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 3414-3424	3.6	22
42	2D metal carbides (MXenes) in fibers. <i>Materials Today</i> , <b>2017</b> , 20, 481-482	21.8	20
41	Electrocatalytic CO reduction on earth abundant 2D MoC and TiC MXenes. <i>Chemical Communications</i> , <b>2021</b> , 57, 1675-1678	5.8	19
40	Spherical nanoindentation study of the deformation micromechanisms of LiTaO3 single crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 023516	2.5	18
39	Evidence of a magnetic transition in atomically thin CrTiCT MXene. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1557-1565	5.8	18
38	Enhancement of Ti3C2 MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5079-5086	3.8	17
37	Energy damping in magnesium alloy composites reinforced with TiC or Ti2AlC particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 653, 53-62	5.3	17
36	Distinguishing electronic contributions of surface and sub-surface transition metal atoms in Ti-based MXenes. <i>2D Materials</i> , <b>2020</b> , 7, 025015	5.9	17
35	On the interactions of Ti2AlC, Ti3AlC2, Ti3SiC2 and Cr2AlC with silicon carbide and pyrolytic carbon at 1300 °C. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 4107-4114	6	16
34	Reactions Between Ti2AlC, B4C, and Al and Phase Equilibria at 1000 °C in the Al-Ti-B-C Quaternary System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2015</b> , 36, 169-182	1	14
33	Nacre-Mimetic, Mechanically Flexible, and Electrically Conductive Silk Fibroin-MXene Composite Foams as Piezoresistive Pressure Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34996-35007	9.5	13



32	All-Printed MXene/Graphene Nanosheet-Based Bimodal Sensors for Simultaneous Strain and Temperature Sensing. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2341-2348	4	12
31	Synthesis and characterization of the mechanical properties of Ti <sub>3</sub> SiC <sub>2</sub> /Mg and Cr <sub>2</sub> AlC/Mg alloy composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 705, 182-188	5.3	11
30	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> solid lubricant coatings in rolling bearings with remarkable performance beyond state-of-the-art materials. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101202	6.6	11
29	Mechanical and elastic properties of fine-grained polycrystalline scandia and erbia as determined by indentation techniques. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 1703-1712	6	10
28	2D transition metal carbides (MXenes) in metal and ceramic matrix composites. <i>Nano Convergence</i> , <b>2021</b> , 8, 16	9.2	10
27	Fabrication, biodegradation behavior and cytotoxicity of Mg-nanodiamond composites for implant application. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 110	4.5	9
26	Fabrication of Ti <sub>3</sub> C <sub>2</sub> MXene Microelectrode Arrays for In Vivo Neural Recording. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	8
25	Microscale deformation of (001) and (100) rutile single crystals under spherical nanoindentation. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 53-63	2.5	8
24	High-temperature stability and phase transformations of titanium carbide (TiC) MXene. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	8
23	2D Titanium Carbide (MXene) Based Films: Expanding the Frontier of Functional Film Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105043	15.6	8
22	Reconstruction of fatigue crack growth in AA2024-T3 and AA2198-T8 fastened lap joints. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 82, 33-50	3.7	7
21	van der Waals epitaxy of highly (111)-oriented BaTiO <sub>3</sub> on MXene. <i>Nanoscale</i> , <b>2019</b> , 11, 622-630	7.7	6
20	In Situ N-Doped Graphene and Mo Nanoribbon Formation from Mo Ti C MXene Monolayers. <i>Small</i> , <b>2020</b> , 16, e1907115	11	6
19	Atomic Defects and Edge Structure in Single-layer Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1704-1705	0.5	6
18	Reversible dislocation motion and microcracking in plastically anisotropic solids under cyclic spherical nanoindentation. <i>MRS Communications</i> , <b>2013</b> , 3, 245-248	2.7	6
17	Covalent Surface Modification of TiC MXene with Chemically Active Polymeric Ligands Producing Highly Conductive and Ordered Microstructure Films. <i>ACS Nano</i> , <b>2021</b> ,	16.7	6
16	Microelectronics: Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks (Adv. Funct. Mater. 9/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870059	15.6	5
15	Direct Correlation of MXene Surface Chemistry and Electronic Properties. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1606-1607	0.5	5

14	A Tungsten-Based Nanolaminated Ternary Carbide: (W,Ti)C. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1100-1106	5.1	5
13	On the oxidation of Ti <sub>2</sub> GeC in air. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, 550-557	5.7	4
12	Fatigue Crack Growth in Aluminum Lithium Riveted Lap Joints. <i>Procedia Engineering</i> , <b>2014</b> , 74, 413-416		4
11	Nanocrystalline Mg-Matrix Composites with Ultrahigh Damping Properties <b>2011</b> , 463-468		4
10	Enhanced electrochemical performance of vanadium carbide MXene composites for supercapacitors. <i>APL Materials</i> , <b>2022</b> , 10, 060901	5.7	3
9	Nanocrystalline Mg-Matrix Composites with Ultrahigh Damping Properties <b>2011</b> , 463-468		2
8	2D Materials: Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers (Adv. Mater. 40/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	1
7	Low-temperature annealing of 2D Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene films using electron wind force in ambient conditions. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 3398	2.5	1
6	Electrically Conductive MXene-Coated Glass Fibers for Damage Monitoring in Fiber-Reinforced Composites. <i>Journal of Carbon Research</i> , <b>2020</b> , 6, 64	3.3	0
5	Self-assembly and in-situ characterization of Ti <sub>3</sub> C <sub>2</sub> T in Al: A step toward additive manufacturing of MXene-metal composites. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101451	6.6	0
4	Understanding and supporting the needs of early-career materials scientists. <i>MRS Bulletin</i> , <b>2020</b> , 45, 969-971	3.2	
3	On the Effect of Ti <sub>2</sub> AlC on the Formation of Thermally Stable Mg Nano Grains <b>2012</b> , 409-412		
2	On the Effect of Ti <sub>2</sub> AlC on the Formation of Thermally Stable Mg Nano Grains 409-412		
1	Double transition-metal MXenes: Atomistic design of two-dimensional carbides and nitrides - ADDENDUM. <i>MRS Bulletin</i> , <b>2020</b> , 1-1	3.2	