Yury Gogotsi

List of Publications by Year
in descending order

904 papers	217,043 citations	21 206 h-index	29 444 g-index
945 all docs	945 docs citations	945 times ranked	83835 citing authors

#	Article	IF	Citations
1	Materials for electrochemical capacitors. Nature Materials, 2008, 7, 845-854.	13.3	14,090
2	Twoâ€Dimensional Nanocrystals Produced by Exfoliation of Ti₃AlC₂. Advanced Materials, 2011, 23, 4248-4253.	11.1	7,931
3	2D metal carbides and nitrides (MXenes) for energy storage. Nature Reviews Materials, 2017, 2, .	23.3	5,261
4	Where Do Batteries End and Supercapacitors Begin?. Science, 2014, 343, 1210-1211.	6.0	4,605
5	25th Anniversary Article: MXenes: A New Family of Twoâ€Dimensional Materials. Advanced Materials, 2014, 26, 992-1005.	11.1	4,547
6	Conductive two-dimensional titanium carbide â€˜clayâ€™ with high volumetric capacitance. Nature, 2014, 516, 78-81.	13.7	4,306
7	Electromagnetic interference shielding with 2D transition metal carbides (MXenes). Science, 2016, 353, 1137-1140.	6.0	3,688
8	Two-Dimensional Transition Metal Carbides. ACS Nano, 2012, 6, 1322-1331.	7.3	3,453
9	Anomalous Increase in Carbon Capacitance at Pore Sizes Less Than 1 Nanometer. Science, 2006, 313, 1760-1763.	6.0	3,404
10	Cation Intercalation and High Volumetric Capacitance of Two-Dimensional Titanium Carbide. Science, 2013, 341, 1502-1505.	6.0	3,329
11	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti₃C₂T_{<i>x</i>} MXene). Chemistry of Materials, 2017, 29, 7633-7644.	3.2	3,129
12	Ultrahigh-power micrometre-sized supercapacitors based on onion-like carbon. Nature Nanotechnology, 2010, 5, 651-654.	15.6	2,451
13	The properties and applications of nanodiamonds. Nature Nanotechnology, 2012, 7, 11-23.	15.6	2,327
14	Intercalation and delamination of layered carbides and carbonitrides. Nature Communications, 2013, 4, 1716.	5.8	2,095
15	Relation between the Ion Size and Pore Size for an Electric Double-Layer Capacitor. Journal of the American Chemical Society, 2008, 130, 2730-2731.	6.6	2,066
16	True Performance Metrics in Electrochemical Energy Storage. Science, 2011, 334, 917-918.	6.0	2,057
17	Flexible and conductive MXene films and nanocomposites with high capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16676-16681.	3.3	1,713
18	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. Nature Energy, 2017, 2, .	19.8	1,626

#	ARTICLE	IF	CITATIONS
19	New Two-Dimensional Niobium and Vanadium Carbides as Promising Materials for Li-Ion Batteries. Journal of the American Chemical Society, 2013, 135, 15966-15969.	6.6	1,609
20	The Rise of MXenes. ACS Nano, 2019, 13, 8491-8494.	7.3	1,399
21	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). ACS Nano, 2015, 9, 9507-9516.	7.3	1,395
22	X-ray photoelectron spectroscopy of select multi-layered transition metal carbides (MXenes). Applied Surface Science, 2016, 362, 406-417.	3.1	1,369
23	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. Advanced Functional Materials, 2017, 27, 1701264.	7.8	1,354
24	Capacitive Energy Storage in Nanostructured Carbonâ€"Electrolyte Systems. Accounts of Chemical Research, 2013, 46, 1094-1103.	7.6	1,281
25	Multidimensional materials and device architectures for future hybrid energy storage. Nature Communications, 2016, 7, 12647.	5.8	1,281
26	MXene: a promising transition metal carbide anode for lithium-ion batteries. Electrochemistry Communications, 2012, 16, 61-64.	2.3	1,252
27	Ultralight and Highly Compressible Graphene Aerogels. Advanced Materials, 2013, 25, 2219-2223.	11.1	1,249
28	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. Nature Catalysis, 2018, 1, 985-992.	16.1	1,236
29	Energy Storage in Nanomaterials â€" Capacitive, Pseudocapacitive, or Battery-like?. ACS Nano, 2018, 12, 2081-2083.	7.3	1,215
30	The world of two-dimensional carbides and nitrides (MXenes). Science, 2021, 372, .	6.0	1,209
31	Monolithic Carbide-Derived Carbon Films for Micro-Supercapacitors. Science, 2010, 328, 480-483.	6.0	1,206
32	Perspectives for electrochemical capacitors and related devices. Nature Materials, 2020, 19, 1151-1163.	13.3	1,187
33	Transparent Conductive Two-Dimensional Titanium Carbide Epitaxial Thin Films. Chemistry of Materials, 2014, 26, 2374-2381.	3.2	1,173
34	Ti₃C₂ MXene as a High Capacity Electrode Material for Metal (Li, Na, K, Ca) Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 11173-11179.	4.0	1,165
35	Role of Surface Structure on Li-Ion Energy Storage Capacity of Two-Dimensional Transition-Metal Carbides. Journal of the American Chemical Society, 2014, 136, 6385-6394.	6.6	1,164
36	Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti₃C₂ MXene Flakes. Advanced Electronic Materials, 2016, 2, 1600255.	2.6	1,160

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37	Metallic Ti₃C₂T_{<i>x</i>} MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. ACS Nano, 2018, 12, 986-993.	7.3	1,153
38	Flexible MXene/Carbon Nanotube Composite Paper with High Volumetric Capacitance. Advanced Materials, 2015, 27, 339-345.	11.1	1,125
39	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). Chemistry of Materials, 2017, 29, 4848-4856.	3.2	1,120
40	Energy storage: The future enabled by nanomaterials. Science, 2019, 366, .	6.0	1,119
41	Capacitive energy storage in micro-scale devices: recent advances in design and fabrication of micro-supercapacitors. Energy and Environmental Science, 2014, 7, 867.	15.6	1,112
42	Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. ACS Energy Letters, 2016, 1, 589-594.	8.8	1,100
43	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
44	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. Nature, 2018, 557, 409-412.	13.7	965
45	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). Advanced Functional Materials, 2016, 26, 3118-3127.	7.8	945
46	Antibacterial Activity of Ti₃C₂T_{<i>x</i>} MXene. ACS Nano, 2016, 10, 3674-3684.	7.3	904
47	Synthesis of two-dimensional titanium nitride Ti₄N₃(MXene). Nanoscale, 2016, 8, 11385-11391.	2.8	878
48	On the molecular origin of supercapacitance in nanoporous carbon electrodes. Nature Materials, 2012, 11, 306-310.	13.3	861
49	Pseudocapacitive Electrodes Produced by Oxidantâ€Free Polymerization of Pyrrole between the Layers of 2D Titanium Carbide (MXene). Advanced Materials, 2016, 28, 1517-1522.	11.1	850
50	Electronic and Optical Properties of 2D Transition Metal Carbides and Nitrides (MXenes). Advanced Materials, 2018, 30, e1804779.	11.1	850
51	Anomalous absorption of electromagnetic waves by 2D transition metal carbonitride Ti ₃ CNT <i> _x </i> (MXene). Science, 2020, 369, 446-450.	6.0	844
52	MXene molecular sieving membranes for highly efficient gas separation. Nature Communications, 2018, 9, 155.	5.8	825
53	Prediction and Characterization of MXene Nanosheet Anodes for Non-Lithium-Ion Batteries. ACS Nano, 2014, 8, 9606-9615.	7.3	814
54	Control of sp2/sp3Carbon Ratio and Surface Chemistry of Nanodiamond Powders by Selective Oxidation in Air. Journal of the American Chemical Society, 2006, 128, 11635-11642.	6.6	809

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55	Energy Storage Data Reporting in Perspectiveâ€”Guidelines for Interpreting the Performance of Electrochemical Energy Storage Systems. Advanced Energy Materials, 2019, 9, 1902007.	10.2	793
56	Atomic Defects in Monolayer Titanium Carbide (Ti₃C₂T_{<i>x</i>}) MXene. ACS Nano, 2016, 10, 9193-9200.	7.3	785
57	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Naâ€Ion Storage. Advanced Materials, 2017, 29, 1702410.	11.1	757
58	All Pseudocapacitive MXeneâ€RuO₂ Asymmetric Supercapacitors. Advanced Energy Materials, 2018, 8, 1703043.	10.2	757
59	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. Advanced Materials, 2017, 29, 1702678.	11.1	756
60	Amineâ€Assisted Delamination of Nb₂C MXene for Liâ€Ion Energy Storage Devices. Advanced Materials, 2015, 27, 3501-3506.	11.1	749
61	Two-dimensional heterostructures for energy storage. Nature Energy, 2017, 2, .	19.8	747
62	Charge- and Size-Selective Ion Sieving Through Ti₃C₂T_{<i>x</i>} MXene Membranes. Journal of Physical Chemistry Letters, 2015, 6, 4026-4031.	2.1	743
63	Control of MXenesâ€™ electronic properties through termination and intercalation. Nature Communications, 2019, 10, 522.	5.8	721
64	Electrospinning of Continuous Carbon Nanotube-Filled Nanofiber Yarns. Advanced Materials, 2003, 15, 1161-1165.	11.1	716
65	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
66	NMR reveals the surface functionalisation of Ti₃C₂MXene. Physical Chemistry Chemical Physics, 2016, 18, 5099-5102.	1.3	689
67	Highly Conductive Optical Quality Solutionâ€Processed Films of 2D Titanium Carbide. Advanced Functional Materials, 2016, 26, 4162-4168.	7.8	680
68	Raman Spectroscopy Analysis of the Structure and Surface Chemistry of Ti₃C₂T<i>_x</i> MXene. Chemistry of Materials, 2020, 32, 3480-3488.	3.2	677
69	Dispersions of Two-Dimensional Titanium Carbide MXene in Organic Solvents. Chemistry of Materials, 2017, 29, 1632-1640.	3.2	667
70	Electrochemical performance of carbon onions, nanodiamonds, carbon black and multiwalled nanotubes in electrical double layer capacitors. Carbon, 2007, 45, 2511-2518.	5.4	659
71	Boron nitride colloidal solutions, ultralight aerogels and freestanding membranes through one-step exfoliation and functionalization. Nature Communications, 2015, 6, 8849.	5.8	658
72	Nanoporous carbide-derived carbon with tunable pore size. Nature Materials, 2003, 2, 591-594.	13.3	653

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73	Additive-free MXene inks and direct printing of micro-supercapacitors. Nature Communications, 2019, 10, 1795.	5.8	649
74	Elastic properties of 2D Ti ₃ C ₂ T _{<i>x</i>} MXene monolayers and bilayers. Science Advances, 2018, 4, eaat0491.	4.7	637
75	On-chip and freestanding elastic carbon films for micro-supercapacitors. Science, 2016, 351, 691-695.	6.0	623
76	One-step synthesis of nanocrystalline transition metal oxides on thin sheets of disordered graphitic carbon by oxidation of MXenes. Chemical Communications, 2014, 50, 7420-7423.	2.2	614
77	Scalable Manufacturing of Freeâ€Standing, Strong Ti₃C₂T<i>_x</i> MXene Films with Outstanding Conductivity. Advanced Materials, 2020, 32, e2001093.	11.1	613
78	Dye adsorption and decomposition on two-dimensional titanium carbide in aqueous media. Journal of Materials Chemistry A, 2014, 2, 14334-14338.	5.2	602
79	Effect of pore size and surface area of carbide derived carbons on specific capacitance. Journal of Power Sources, 2006, 158, 765-772.	4.0	591
80	Synthesis of Two-Dimensional Materials by Selective Extraction. Accounts of Chemical Research, 2015, 48, 128-135.	7.6	590
81	Fabrication of Ti₃C₂T<i>_x</i> MXene Transparent Thin Films with Tunable Optoelectronic Properties. Advanced Electronic Materials, 2016, 2, 1600050.	2.6	587
82	Carbideâ€Derived Carbons â€“ From Porous Networks to Nanotubes and Graphene. Advanced Functional Materials, 2011, 21, 810-833.	7.8	585
83	Desolvation of Ions in Subnanometer Pores and Its Effect on Capacitance and Doubleâ€Layer Theory. Angewandte Chemie - International Edition, 2008, 47, 3392-3395.	7.2	569
84	Effect of pore size on carbon dioxide sorption by carbide derived carbon. Energy and Environmental Science, 2011, 4, 3059.	15.6	558
85	All-MXene (2D titanium carbide) solid-state microsupercapacitors for on-chip energy storage. Energy and Environmental Science, 2016, 9, 2847-2854.	15.6	551
86	Synthesis of Twoâ€Dimensional Materials for Capacitive Energy Storage. Advanced Materials, 2016, 28, 6104-6135.	11.1	548
87	Monitoring oxidation of multiwalled carbon nanotubes by Raman spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 728-736.	1.2	537
88	Best Practices for Reporting Electrocatalytic Performance of Nanomaterials. ACS Nano, 2018, 12, 9635-9638.	7.3	537
89	Probing the Mechanism of High Capacitance in 2D Titanium Carbide Using In Situ Xâ€Ray Absorption Spectroscopy. Advanced Energy Materials, 2015, 5, 1500589.	10.2	521
90	MoS₂â€onâ€MXene Heterostructures as Highly Reversible Anode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 1846-1850.	7.2	520

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91	Ion-Exchange and Cation Solvation Reactions in Ti₃C₂ MXene. Chemistry of Materials, 2016, 28, 3507-3514.	3.2	499
92	Knitted and screen printed carbon-fiber supercapacitors for applications in wearable electronics. Energy and Environmental Science, 2013, 6, 2698.	15.6	494
93	Beyond Ti₃C₂T_{<i>x</i>}: MXenes for Electromagnetic Interference Shielding. ACS Nano, 2020, 14, 5008-5016.	7.3	489
94	Carbon coated textiles for flexible energy storage. Energy and Environmental Science, 2011, 4, 5060.	15.6	486
95	Synthesis and characterization of two-dimensional Nb₄C₃ (MXene). Chemical Communications, 2014, 50, 9517-9520.	2.2	481
96	Metallic MXene Saturable Absorber for Femtosecond Modeâ€Locked Lasers. Advanced Materials, 2017, 29, 1702496.	11.1	475
97	Textile energy storage in perspective. Journal of Materials Chemistry A, 2014, 2, 10776.	5.2	474
98	Scalable Synthesis of Ti₃C₂T_{<i>x</i>} MXene. Advanced Engineering Materials, 2020, 22, 1901241.	1.6	468
99	Selfâ€Assembly of Transition Metal Oxide Nanostructures on MXene Nanosheets for Fast and Stable Lithium Storage. Advanced Materials, 2018, 30, e1707334.	11.1	467
100	Electrospun MXene/carbon nanofibers as supercapacitor electrodes. Journal of Materials Chemistry A, 2019, 7, 269-277.	5.2	464
101	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. ACS Nano, 2020, 14, 6383-6406.	7.3	455
102	Porous Twoâ€Dimensional Transition Metal Carbide (MXene) Flakes for Highâ€Performance Liâ€Ion Storage. ChemElectroChem, 2016, 3, 689-693.	1.7	452
103	MoS₂ Nanosheets Vertically Aligned on Carbon Paper: A Freestanding Electrode for Highly Reversible Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502161.	10.2	444
104	Effect of pore size and its dispersity on the energy storage in nanoporous supercapacitors. Energy and Environmental Science, 2012, 5, 6474.	15.6	431
105	First principles study of two-dimensional early transition metal carbides. MRS Communications, 2012, 2, 133-137.	0.8	429
106	Synthesis of Mo₄VAlC₄ MAX Phase and Two-Dimensional Mo₄VC₄ MXene with Five Atomic Layers of Transition Metals. ACS Nano, 2020, 14, 204-217.	7.3	429
107	MXene chemistry, electrochemistry and energy storage applications. Nature Reviews Chemistry, 2022, 6, 389-404.	13.8	429
108	Stamping of Flexible, Coplanar Microâ€Supercapacitors Using MXene Inks. Advanced Functional Materials, 2018, 28, 1705506.	7.8	427

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109	Atomic layer deposition of SnO 2 on MXene for Li-ion battery anodes. Nano Energy, 2017, 34, 249-256.	8.2	423
110	High capacitance of surface-modified 2D titanium carbide in acidic electrolyte. Electrochemistry Communications, 2014, 48, 118-122.	2.3	420
111	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive Ti₃C₂ MXene. ACS Nano, 2021, 15, 6420-6429.	7.3	417
112	Electromagnetic Shielding of Monolayer MXene Assemblies. Advanced Materials, 2020, 32, e1906769.	11.1	410
113	Ten Years of Progress in the Synthesis and Development of MXenes. Advanced Materials, 2021, 33, e2103393.	11.1	410
114	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.	7.8	407
115	Ultrahigh-flux and fouling-resistant membranes based on layered silver/MXene (Ti₃C₂T_x) nanosheets. Journal of Materials Chemistry A, 2018, 6, 3522-3533.	5.2	397
116	H₂O₂assisted room temperature oxidation of Ti₂C MXene for Li-ion battery anodes. Nanoscale, 2016, 8, 7580-7587.	2.8	396
117	Control of electronic properties of 2D carbides (MXenes) by manipulating their transition metal layers. Nanoscale Horizons, 2016, 1, 227-234.	4.1	394
118	Carbon Nanotubes Loaded with Magnetic Particles. Nano Letters, 2005, 5, 879-884.	4.5	393
119	Water treatment and environmental remediation applications of two-dimensional metal carbides (MXenes). Materials Today, 2019, 30, 80-102.	8.3	390
120	MXene-Bonded Activated Carbon as a Flexible Electrode for High-Performance Supercapacitors. ACS Energy Letters, 2018, 3, 1597-1603.	8.8	389
121	Wet Chemistry Route to Hydrophobic Blue Fluorescent Nanodiamond. Journal of the American Chemical Society, 2009, 131, 4594-4595.	6.6	381
122	2D titanium carbide (MXene) for wireless communication. Science Advances, 2018, 4, eaau0920.	4.7	381
123	Carbide-Derived Carbons: Effect of Pore Size on Hydrogen Uptake and Heat of Adsorption. Advanced Functional Materials, 2006, 16, 2288-2293.	7.8	379
124	Scalable salt-templated synthesis of two-dimensional transition metal oxides. Nature Communications, 2016, 7, 11296.	5.8	379
125	Water Desalination Using Capacitive Deionization with Microporous Carbon Electrodes. ACS Applied Materials & Interfaces, 2012, 4, 1194-1199.	4.0	374
126	Resolving the Structure of Ti₃C₂T_{<i>x</i>} MXenes through Multilevel Structural Modeling of the Atomic Pair Distribution Function. Chemistry of Materials, 2016, 28, 349-359.	3.2	374

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127	MXeneâ€onâ€Paper Coplanar Microsupercapacitors. Advanced Energy Materials, 2016, 6, 1601372.	10.2	368
128	Influences from solvents on charge storage in titanium carbide MXenes. Nature Energy, 2019, 4, 241-248.	19.8	363
129	Capacitive Energy Storage from âˆ’50 to 100 Â°C Using an Ionic Liquid Electrolyte. Journal of Physical Chemistry Letters, 2011, 2, 2396-2401.	2.1	361
130	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. ACS Nano, 2017, 11, 2180-2186.	7.3	359
131	Surface Termination Dependent Work Function and Electronic Properties of Ti₃C₂T_{<i>x</i>} MXene. Chemistry of Materials, 2019, 31, 6590-6597.	3.2	359
132	Two-Dimensional Vanadium Carbide (MXene) as Positive Electrode for Sodium-Ion Capacitors. Journal of Physical Chemistry Letters, 2015, 6, 2305-2309.	2.1	358
133	Phase transformations of silicon caused by contact loading. Journal of Applied Physics, 1997, 81, 3057-3063.	1.1	354
134	Effect of phase transformations on the shape of the unloading curve in the nanoindentation of silicon. Applied Physics Letters, 2000, 76, 2214-2216.	1.5	352
135	Fluorescent PLLA-nanodiamond composites for bone tissue engineering. Biomaterials, 2011, 32, 87-94.	5.7	352
136	Titanium carbide derived nanoporous carbon for energy-related applications. Carbon, 2006, 44, 2489-2497.	5.4	351
137	Kinetics of aluminum extraction from Ti3AlC2 in hydrofluoric acid. Materials Chemistry and Physics, 2013, 139, 147-152.	2.0	348
138	A Non-Aqueous Asymmetric Cell with a Ti₂C-Based Two-Dimensional Negative Electrode. Journal of the Electrochemical Society, 2012, 159, A1368-A1373.	1.3	332
139	Saturable Absorption in 2D Ti₃C₂ MXene Thin Films for Passive Photonic Diodes. Advanced Materials, 2018, 30, 1705714.	11.1	332
140	Nanodiamonds suppress the growth of lithium dendrites. Nature Communications, 2017, 8, 336.	5.8	327
141	2D molybdenum and vanadium nitrides synthesized by ammoniation of 2D transition metal carbides (MXenes). Nanoscale, 2017, 9, 17722-17730.	2.8	327
142	Porous Cryo-Dried MXene for Efficient Capacitive Deionization. Joule, 2018, 2, 778-787.	11.7	326
143	Asymmetric Flexible MXeneâ€Reduced Graphene Oxide Microâ€Supercapacitor. Advanced Electronic Materials, 2018, 4, 1700339.	2.6	324
144	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. ACS Applied Materials & Interfaces, 2017, 9, 20038-20045.	4.0	323

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145	Tailoring of Nanoscale Porosity in Carbide-Derived Carbons for Hydrogen Storage. Journal of the American Chemical Society, 2005, 127, 16006-16007.	6.6	318
146	One-step Solution Processing of Ag, Au and Pd@MXene Hybrids for SERS. Scientific Reports, 2016, 6, 32049.	1.6	316
147	Outstanding performance of activated graphene based supercapacitors in ionic liquid electrolyte from â˜’50 to 80Â°C. Nano Energy, 2013, 2, 403-411.	8.2	314
148	Layered Orthorhombic Nb₂O₅@Nb₄C₃T<i>_x</i> and TiO₂@Ti₃C₂T<i>_x</i> Hierarchical Composites for High Performance Liâ€•ion Batteries. Advanced Functional Materials, 2016, 26, 4143-4151.	7.8	309
149	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. Advanced Functional Materials, 2020, 30, 1910504.	7.8	308
150	Efficient Antibacterial Membrane based on Two-Dimensional Ti3C2Tx (MXene) Nanosheets. Scientific Reports, 2017, 7, 1598.	1.6	305
151	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
152	Transition metal carbides go 2D. Nature Materials, 2015, 14, 1079-1080.	13.3	301
153	Selective Etching of Silicon from Ti₃SiC₂ (MAX) To Obtain 2D Titanium Carbide (MXene). Angewandte Chemie - International Edition, 2018, 57, 5444-5448.	7.2	299
154	High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. Chemistry of Materials, 2019, 31, 3324-3332.	3.2	296
155	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. Nano Energy, 2016, 30, 603-613.	8.2	293
156	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. ACS Nano, 2018, 12, 2685-2694.	7.3	288
157	Characterization of MXenes at every step, from their precursors to single flakes and assembled films. Progress in Materials Science, 2021, 120, 100757.	16.0	288
158	In situ environmental transmission electron microscopy study of oxidation of two-dimensional Ti₃C₂and formation of carbon-supported TiO₂. Journal of Materials Chemistry A, 2014, 2, 14339.	5.2	287
159	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartzâ€Crystal Admittance and In Situ Electronic Conductance Measurements. Advanced Energy Materials, 2015, 5, 1400815.	10.2	283
160	Ultralight and Mechanically Robust Ti₃C₂T<i>_x</i> Hybrid Aerogel Reinforced by Carbon Nanotubes for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2019, 11, 38046-38054.	4.0	283
161	Two-Dimensional Titanium Carbide (MXene) as Surface-Enhanced Raman Scattering Substrate. Journal of Physical Chemistry C, 2017, 121, 19983-19988.	1.5	281
162	Nanodiamond-Polymer Composite Fibers and Coatings. ACS Nano, 2009, 3, 363-369.	7.3	278

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163	Ti₃C₂T_{<i>x</i>} MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. ACS Nano, 2020, 14, 3576-3586.	7.3	277
164	Tunable Magnetism and Transport Properties in Nitride MXenes. ACS Nano, 2017, 11, 7648-7655.	7.3	276
165	An investigation into the factors governing the oxidation of two-dimensional Ti₃C₂MXene. Nanoscale, 2019, 11, 8387-8393.	2.8	276
166	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. ACS Applied Materials & Interfaces, 2018, 10, 24491-24498.	4.0	275
167	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. Nano Energy, 2018, 44, 103-110.	8.2	273
168	Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. Chemistry of Materials, 2017, 29, 6472-6479.	3.2	270
169	Self-Sensing, Ultralight, and Conductive 3D Graphene/Iron Oxide Aerogel Elastomer Deformable in a Magnetic Field. ACS Nano, 2015, 9, 3969-3977.	7.3	266
170	Covalent Incorporation of Aminated Nanodiamond into an Epoxy Polymer Network. ACS Nano, 2011, 5, 7494-7502.	7.3	262
171	MXeneâ€”Conducting Polymer Asymmetric Pseudocapacitors. Advanced Energy Materials, 2019, 9, 1802917.	10.2	262
172	High capacity silicon anodes enabled by MXene viscous aqueous ink. Nature Communications, 2019, 10, 849.	5.8	253
173	Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). ACS Photonics, 2018, 5, 1115-1122.	3.2	252
174	In situ multiphase fluid experiments in hydrothermal carbon nanotubes. Applied Physics Letters, 2001, 79, 1021-1023.	1.5	250
175	The role of microwave absorption on formation of graphene from graphite oxide. Carbon, 2012, 50, 3267-3273.	5.4	250
176	Capacitance of Ti3C2Tx MXene in ionic liquid electrolyte. Journal of Power Sources, 2016, 326, 575-579.	4.0	250
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902	THE STRUCTURAL EFFECTS ON MULTI-WALLED CARBON NANOTUBES BY THERMAL ANNEALING UNDER VACUUM. , 2006, , 45-46.		0
903	Tanks and Truth. ACS Nano, 2022, 16, 4975-4976.	7.3	0
904	Computer Simulation of Hydrogen Capacity of Nanoporous Carbon. Ceramic Engineering and Science Proceedings, 0, , 241-250.	0.1	0