Yury Gogotsi

List of Publications by Year in descending order

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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	An aqueous 2.1 V pseudocapacitor with MXene and V-MnO2 electrodes. Nano Research, 2022, 15, 535-541.	5.8	31
2	Towards Watt-scale hydroelectric energy harvesting by Ti₃C₂T_x-based transpiration-driven electrokinetic power generators. Energy and Environmental Science, 2022, 15, 123-135.	15.6	70
3	Highâ€Speed Ionic Synaptic Memory Based on 2D Titanium Carbide MXene. Advanced Functional Materials, 2022, 32, 2109970.	7.8	33
4	Surface Redox Pseudocapacitance of Partially Oxidized Titanium Carbide MXene in Water-in-Salt Electrolyte. ACS Energy Letters, 2022, 7, 30-35.	8.8	43
5	Shifts in valence states in bimetallic MXenes revealed by electron energy-loss spectroscopy (EELS). 2D Materials, 2022, 9, 025004.	2.0	11
6	The path to high-rate energy storage goes through narrow channels. Joule, 2022, 6, 28-30.	11.7	7
7	Ionically Active MXene Nanopore Actuators. Small, 2022, 18, e2105857.	5.2	9
8	Bridging MXene layers for strong multifunctional films. Matter, 2022, 5, 381-384.	5.0	5
9	Synergy of ferric vanadate and MXene for high performance Li- and Na-ion batteries. Chemical Engineering Journal, 2022, 436, 135012.	6.6	30
10	Delamination of MXenes using bovine serum albumin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128580.	2.3	15
11	Deformation of and Interfacial Stress Transfer in Ti₃C₂ MXeneâ€“Polymer Composites. ACS Applied Materials & Interfaces, 2022, 14, 10681-10690.	4.0	19
12	Evaluation of two-dimensional transition-metal carbides and carbonitrides (MXenes) for SERS substrates. MRS Bulletin, 2022, 47, 545-554.	1.7	19
13	Tanks and Truth. ACS Nano, 2022, 16, 4975-4976.	7.3	0
14	MXenes for Photonics. ACS Photonics, 2022, 9, 1108-1116.	3.2	44
15	Continuous transition from double-layer to Faradaic charge storage in confined electrolytes. Nature Energy, 2022, 7, 222-228.	19.8	130
16	Water dynamics in pristine and porous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mn>3</mml:mn></mml:m mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> MXene as probed by quasielastic neutron scattering. Physical Review Materials, 2022, 6, .	0.9	1
17	Guidelines for Synthesis and Processing of Chemically Stable Two-Dimensional V₂CT_x MXene. Chemistry of Materials, 2022, 34, 499-509.	3.2	74
18	Tip-Enhanced Raman Scattering Imaging of Single- to Few-Layer Ti₃C₂T_x MXene. ACS Nano, 2022, 16, 6858-6865.	7.3	26

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19	MXene chemistry, electrochemistry and energy storage applications. Nature Reviews Chemistry, 2022, 6, 389-404.	13.8	429
20	Lithium-ions uptake by MAX/graphene hybrid. , 2022, 7, 59-71.		1
21	Performance improvement of dye-sensitized double perovskite solar cells by adding Ti3C2T MXene. Chemical Engineering Journal, 2022, 446, 136963.	6.6	37
22	How Water Attacks MXene. Chemistry of Materials, 2022, 34, 4975-4982.	3.2	44
23	MXene-Assisted Ablation of Cells with a Pulsed Near-Infrared Laser. ACS Applied Materials & Interfaces, 2022, 14, 28683-28696.	4.0	23
24	Termination-Property Coupling via Reversible Oxygen Functionalization of MXenes. ACS Nanoscience Au, 2022, 2, 433-439.	2.0	5
25	Nâ€“p-Conductor Transition of Gas Sensing Behaviors in Mo₂CT_x MXene. ACS Sensors, 2022, 7, 2225-2234.	4.0	20
26	Removal and recovery of ammonia from simulated wastewater using Ti3C2Tx MXene in flow electrode capacitive deionization. Npj Clean Water, 2022, 5, .	3.1	9
27	MXene conductive binder for improving performance of sodium-ion anodes in water-in-salt electrolyte. Nano Energy, 2021, 79, 105433.	8.2	31
28	Solutionâ€Processed Ti₃C₂T_x MXene Antennas for Radioâ€Frequency Communication. Advanced Materials, 2021, 33, e2003225.	11.1	109
29	Additiveâ€Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. Small, 2021, 17, .	5.2	61
30	The Broad Chromatic Range of Twoâ€Dimensional Transition Metal Carbides. Advanced Optical Materials, 2021, 9, 2001563.	3.6	118
31	Intercalationâ€Induced Reversible Electrochromic Behavior of Twoâ€Dimensional Ti₃C₂T_x MXene in Organic Electrolytes. ChemElectroChem, 2021, 8, 151-156.	1.7	21
32	Microsupercapacitor with a 500Ânm gap between MXene/CNT electrodes. Nano Energy, 2021, 81, 105616.	8.2	61
33	Highly conductive and scalable Ti3C2T -coated fabrics for efficient electromagnetic interference shielding. Carbon, 2021, 174, 382-389.	5.4	84
34	Optimizing Ion Pathway in Titanium Carbide MXene for Practical Highâ€Rate Supercapacitor. Advanced Energy Materials, 2021, 11, 2003025.	10.2	152
35	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
36	Interconnected Twoâ€dimensional Arrays of Niobium Nitride Nanocrystals as Stable Lithium Host. Batteries and Supercaps, 2021, 4, 106-111.	2.4	7

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37	Adsorption separation of heavier isotope gases in subnanometer carbon pores. Nature Communications, 2021, 12, 546.	5.8	18
38	Moderating cellular inflammation using 2-dimensional titanium carbide MXene and graphene variants. Biomaterials Science, 2021, 9, 1805-1815.	2.6	16
39	Ultrafast assembly and healing of nanomaterial networks on polymer substrates for flexible hybrid electronics. Applied Materials Today, 2021, 22, 100956.	2.3	7
40	Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a Ti₃C₂T_x MXene Intermediate Layer. Advanced Functional Materials, 2021, 31, 2010987.	7.8	33
41	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive Ti₃C₂ MXene. ACS Nano, 2021, 15, 6420-6429.	7.3	417
42	High electrical conductivity and breakdown current density of individual monolayer Ti3C2T MXene flakes. Matter, 2021, 4, 1413-1427.	5.0	100
43	MXenes: Two-Dimensional Building Blocks for Future Materials and Devices. ACS Nano, 2021, 15, 5775-5780.	7.3	250
44	Charge Dynamics in TiO₂/MXene Composites. Journal of Physical Chemistry C, 2021, 125, 10473-10482.	1.5	20
45	Spectroscopic signature of negative electronic compressibility from the Ti core-level of titanium carbonitride MXene. Applied Physics Reviews, 2021, 8, .	5.5	7
46	2D MXenes with antiviral and immunomodulatory properties: A pilot study against SARS-CoV-2. Nano Today, 2021, 38, 101136.	6.2	63
47	The world of two-dimensional carbides and nitrides (MXenes). Science, 2021, 372, .	6.0	1,209
48	High Breakdown Current Density in Monolayer Nb₄C₃T_x MXene. , 2021, 3, 1088-1094.		19
49	In Situ TEM Investigation of Lithium Intercalation in Ti₃C₂T_X MXenes for Energy Storage Applications. Microscopy and Microanalysis, 2021, 27, 2736-2737.	0.2	5
50	Atomic-scale Feedback-controlled Electron Beam Fabrication of 2D Materials. Microscopy and Microanalysis, 2021, 27, 3072-3073.	0.2	0
51	Development and Applications of MXene-Based Functional Fibers. ACS Applied Materials & Interfaces, 2021, 13, 36655-36669.	4.0	47
52	Etching Mechanism of Monoatomic Aluminum Layers during MXene Synthesis. Chemistry of Materials, 2021, 33, 6346-6355.	3.2	102
53	Probing the In Situ Pseudocapacitive Charge Storage in Ti₃C₂ MXene Thin Films with X-ray Reflectivity. ACS Applied Materials & Interfaces, 2021, 13, 43597-43605.	4.0	8
54	Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. ACS Nano, 2021, 15, 15274-15284.	7.3	56

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55	Safe Synthesis of MAX and MXene: Guidelines to Reduce Risk During Synthesis. Journal of Chemical Health and Safety, 2021, 28, 326-338.	1.1	102
56	Ten Years of Progress in the Synthesis and Development of MXenes. Advanced Materials, 2021, 33, e2103393.	11.1	410
57	Can Anions Be Inserted into MXene?. Journal of the American Chemical Society, 2021, 143, 12552-12559.	6.6	63
58	Ti₃C₂T_x MXene Flakes for Optical Control of Neuronal Electrical Activity. ACS Nano, 2021, 15, 14662-14671.	7.3	32
59	Mapping (Pseudo)Capacitive Charge Storage Dynamics in Titanium Carbide MXene Electrodes in Aqueous Electrolytes Using 3D Bode Analysis. Energy Storage Materials, 2021, 39, 347-353.	9.5	44
60	MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. Science Translational Medicine, 2021, 13, eabf8629.	5.8	68
61	Enhanced absorption of electromagnetic waves in Ti3C2T MXene films with segregated polymer inclusions. Composites Science and Technology, 2021, 213, 108878.	3.8	41
62	Enhancing the Energy Storage Capabilities of Ti₃C₂T_x MXene Electrodes by Atomic Surface Reduction. Advanced Functional Materials, 2021, 31, 2106294.	7.8	28
63	MXene-based suspension electrode with improved energy density for electrochemical flow capacitors. Journal of Power Sources, 2021, 506, 230187.	4.0	5
64	Two-Dimensional MXene Modified Electrodes for Improved Anodic Performance in Vanadium Redox Flow Batteries. Journal of the Electrochemical Society, 2021, 168, 090518.	1.3	16
65	Adjustable electrochemical properties of solid-solution MXenes. Nano Energy, 2021, 88, 106308.	8.2	55
66	Multimodal Spectroscopic Study of Surface Termination Evolution in Cr₂TiC₂T_x MXene. Advanced Materials Interfaces, 2021, 8, 2001789.	1.9	22
67	Performance improvement of MXene-based perovskite solar cells upon property transition from metallic to semiconductive by oxidation of Ti₃C₂T_xin air. Journal of Materials Chemistry A, 2021, 9, 5016-5025.	5.2	77
68	Confined water controls capacitance. Nature Materials, 2021, 20, 1597-1598.	13.3	10
69	Percolation Characteristics of Conductive Additives for Capacitive Flowable (Semi-Solid) Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 5866-5875.	4.0	38
70	Oxidation-resistant titanium carbide MXene films. Journal of Materials Chemistry A, 2020, 8, 573-581.	5.2	217
71	Distinguishing electronic contributions of surface and sub-surface transition metal atoms in Ti-based MXenes. 2D Materials, 2020, 7, 025015.	2.0	31
72	An Ultrafast Conducting Polymer@MXene Positive Electrode with High Volumetric Capacitance for Advanced Asymmetric Supercapacitors. Small, 2020, 16, e1906851.	5.2	186

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73	Electrochemical Activation of 2D MXeneâ€Based Hybrid for High Volumetric Mgâ€Ion Storage Capacitance. Batteries and Supercaps, 2020, 3, 354-360.	2.4	28
74	Micromechanical response of two-dimensional transition metal carbonitride (MXene) reinforced epoxy composites. Composites Part B: Engineering, 2020, 182, 107603.	5.9	55
75	Influence of operating conditions on the desalination performance of a symmetric pre-conditioned Ti3C2T -MXene membrane capacitive deionization system. Desalination, 2020, 477, 114267.	4.0	71
76	Proton Redox and Transport in MXene-Confined Water. ACS Applied Materials & Interfaces, 2020, 12, 763-770.	4.0	53
77	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
78	Ti3C2T /PEDOT:PSS hybrid materials for room-temperature methanol sensor. Chinese Chemical Letters, 2020, 31, 1018-1021.	4.8	57
79	MXeneâ€Based Dendriteâ€Free Potassium Metal Batteries. Advanced Materials, 2020, 32, e1906739.	11.1	244
80	Evidence of a magnetic transition in atomically thin Cr₂TiC₂T_x MXene. Nanoscale Horizons, 2020, 5, 1557-1565.	4.1	51
81	MXene-Derived Bilayered Vanadium Oxides with Enhanced Stability in Li-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 10892-10901.	2.5	21
82	Low-Temperature pseudocapacitive energy storage in Ti3C2T MXene. Energy Storage Materials, 2020, 33, 382-389.	9.5	61
83	MXenes: From Discovery to Applications. Advanced Functional Materials, 2020, 30, 2007011.	7.8	70
84	Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. Nature Communications, 2020, 11, 6160.	5.8	183
85	2H-MoS₂ on Mo₂CT_x MXene Nanohybrid for Efficient and Durable Electrocatalytic Hydrogen Evolution. ACS Nano, 2020, 14, 16140-16155.	7.3	180
86	Rational Design of Titanium Carbide MXene Electrode Architectures for Hybrid Capacitive Deionization. Energy and Environmental Materials, 2020, 3, 398-404.	7.3	42
87	Electrode materialâ€“ionic liquid coupling for electrochemical energy storage. Nature Reviews Materials, 2020, 5, 787-808.	23.3	210
88	Anomalous absorption of electromagnetic waves by 2D transition metal carbonitride Ti ₃ CNT _x (MXene). Science, 2020, 369, 446-450.	6.0	844
89	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. Matter, 2020, 3, 546-557.	5.0	127
90	Vertically Aligned Nanopatterns of Amineâ€Functionalized Ti₃C₂ MXene via Soft Lithography. Advanced Materials Interfaces, 2020, 7, 2000424.	1.9	20

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91	Perspectives for electrochemical capacitors and related devices. Nature Materials, 2020, 19, 1151-1163.	13.3	1,187
92	Enhanced Rate Capability of Ionâ€Accessible Ti₃C₂T_xâ€NbN Hybrid Electrodes. Advanced Energy Materials, 2020, 10, 2001411.	10.2	50
93	Tailoring Electronic and Optical Properties of MXenes through Forming Solid Solutions. Journal of the American Chemical Society, 2020, 142, 19110-19118.	6.6	198
94	Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 18924-18935.	6.6	35
95	Tutorials and Articles on Best Practices. ACS Nano, 2020, 14, 10751-10753.	7.3	1
96	Adsorption of Uremic Toxins Using Ti₃C₂T_x MXene for Dialysate Regeneration. ACS Nano, 2020, 14, 11787-11798.	7.3	71
97	Bioencapsulated MXene Flakes for Enhanced Stability and Composite Precursors. Advanced Functional Materials, 2020, 30, 2004554.	7.8	63
98	Electrically Conductive MXene-Coated Glass Fibers for Damage Monitoring in Fiber-Reinforced Composites. Journal of Carbon Research, 2020, 6, 64.	1.4	5
99	MXeneâ€Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. Advanced Functional Materials, 2020, 30, 2000739.	7.8	168
100	2D Titanium Carbide (Ti₃C₂T_x) in Accommodating Intraocular Lens Design. Advanced Functional Materials, 2020, 30, 2000841.	7.8	26
101	All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. Nano Energy, 2020, 75, 104971.	8.2	119
102	A Gelâ€Free Ti₃C₂T_xâ€Based Electrode Array for Highâ€Density, Highâ€Resolution Surface Electromyography. Advanced Materials Technologies, 2020, 5, 2000325.	3.0	39
103	Bath Electrospinning of Continuous and Scalable Multifunctional MXeneâ€Infiltrated Nanoyarns. Small, 2020, 16, e2002158.	5.2	81
104	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. ACS Nano, 2020, 14, 6383-6406.	7.3	455
105	Tunable electrochromic behavior of titanium-based MXenes. Nanoscale, 2020, 12, 14204-14212.	2.8	42
106	Hydrophobic and Stable MXeneâ€“Polymer Pressure Sensors for Wearable Electronics. ACS Applied Materials & Interfaces, 2020, 12, 15362-15369.	4.0	161
107	Beyond Ti₃C₂T_x: MXenes for Electromagnetic Interference Shielding. ACS Nano, 2020, 14, 5008-5016.	7.3	489
108	3D knitted energy storage textiles using MXene-coated yarns. Materials Today, 2020, 34, 17-29.	8.3	103

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109	Phenothiazineâ€“MXene Aqueous Asymmetric Pseudocapacitors. ACS Applied Energy Materials, 2020, 3, 3144-3149.	2.5	40
110	Interface binding and mechanical properties of MXene-epoxy nanocomposites. Composites Science and Technology, 2020, 192, 108124.	3.8	64
111	New aqueous energy storage devices comprising graphite cathodes, MXene anodes and concentrated sulfuric acid solutions. Energy Storage Materials, 2020, 32, 1-10.	9.5	32
112	Tracking ion intercalation into layered Ti₃C₂ MXene films across length scales. Energy and Environmental Science, 2020, 13, 2549-2558.	15.6	100
113	Taking MXenes from the lab to commercial products. Chemical Engineering Journal, 2020, 401, 125786.	6.6	139
114	Additive-Free MXene Liquid Crystals and Fibers. ACS Central Science, 2020, 6, 254-265.	5.3	182
115	Fabrication of Ti₃C₂ MXene Microelectrode Arrays for In Vivo Neural Recording. Journal of Visualized Experiments, 2020, , .	0.2	15
116	Micromechanical modeling of MXene-polymer composites. Carbon, 2020, 162, 402-409.	5.4	46
117	Electrical and Elastic Properties of Individual Singleâ€Layer Nb₄C₃T_x MXene Flakes. Advanced Electronic Materials, 2020, 6, 1901382.	2.6	134
118	Electromagnetic Interference Shielding: Electromagnetic Shielding of Monolayer MXene Assemblies (Adv. Mater. 9/2020). Advanced Materials, 2020, 32, 2070064.	11.1	16
119	Ti₃C₂T_x MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. ACS Nano, 2020, 14, 3576-3586.	7.3	277
120	Nested hybrid nanotubes. Science, 2020, 367, 506-507.	6.0	22
121	Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. ACS Nano, 2020, 14, 2395-2403.	7.3	52
122	Electromagnetic Shielding of Monolayer MXene Assemblies. Advanced Materials, 2020, 32, e1906769.	11.1	410
123	Scalable Synthesis of Ti₃C₂T_x MXene. Advanced Engineering Materials, 2020, 22, 1901241.	1.6	468
124	Enhancement of Ti₃C₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 5079-5086.	1.5	46
125	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. Advanced Functional Materials, 2020, 30, 1910504.	7.8	308
126	A 2D Titanium Carbide MXene Flexible Electrode for Highâ€Efficiency Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2000919.	11.1	122

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127	Raman Spectroscopy Analysis of the Structure and Surface Chemistry of Ti₃C₂T_x MXene. Chemistry of Materials, 2020, 32, 3480-3488.	3.2	677
128	Role of acid mixtures etching on the surface chemistry and sodium ion storage in Ti₃C₂T_x MXene. Chemical Communications, 2020, 56, 6090-6093.	2.2	76
129	Flexible Nb₄C₃T_x Film with Large Interlayer Spacing for Highâ€Performance Supercapacitors. Advanced Functional Materials, 2020, 30, 2000815.	7.8	92
130	Scalable Manufacturing of Freeâ€Standing, Strong Ti₃C₂T_x MXene Films with Outstanding Conductivity. Advanced Materials, 2020, 32, e2001093.	11.1	613
131	Enhanced Ionic Accessibility of Flexible MXene Electrodes Produced by Natural Sedimentation. Nano-Micro Letters, 2020, 12, 89.	14.4	61
132	Computational Screening of 2D Ordered Double Transition-Metal Carbides (MXenes) as Electrocatalysts for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2020, 124, 10584-10592.	1.5	62
133	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides â€“ solid solution MXenes. Journal of Materials Chemistry A, 2020, 8, 8957-8968.	5.2	90
134	Surface Modification of a MXene by an Aminosilane Coupling Agent. Advanced Materials Interfaces, 2020, 7, 1902008.	1.9	134
135	Growing Contributions of Nano in 2020. ACS Nano, 2020, 14, 16163-16164.	7.3	1
136	Conductivity extraction of thin Ti3C2Tx MXene films over 1â€“10â€‰GHz using capacitively coupled test-fixture. Applied Physics Letters, 2020, 116, .	1.5	12
137	Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304.	1.6	1
138	Superfast high-energy storage hybrid device composed of MXene and Chevrel-phase electrodes operated in saturated LiCl electrolyte solution. Journal of Materials Chemistry A, 2019, 7, 19761-19773.	5.2	32
139	Electrochemical Behavior of Ti₃C₂T_x MXene in Environmentally Friendly Methanesulfonic Acid Electrolyte. ChemSusChem, 2019, 12, 4480-4486.	3.6	19
140	Organic-inorganic all-pseudocapacitive asymmetric energy storage devices. Nano Energy, 2019, 65, 104022.	8.2	52
141	Interfacial Assembly of Ultrathin, Functional MXene Films. ACS Applied Materials & Interfaces, 2019, 11, 32320-32327.	4.0	91
142	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. Nano Energy, 2019, 64, 103961.	8.2	78
143	Diffusion-Induced Transient Stresses in Li-Battery Electrodes Imaged by Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring and Environmental Scanning Electron Microscopy. ACS Energy Letters, 2019, 4, 1907-1917.	8.8	17
144	Surfaceâ€Modified Metallic Ti₃C₂T_x MXene as Electron Transport Layer for Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905694.	7.8	125

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145	Sculpting Liquids with Two-Dimensional Materials: The Assembly of Ti₃C₂T_x MXene Sheets at Liquidâ€“Liquid Interfaces. ACS Nano, 2019, 13, 12385-12392.	7.3	52
146	Introduction to 2D Transition Metal Carbides and Nitrides (MXenes). , 2019, , 3-12.		43
147	Optical Properties of MXenes. , 2019, , 327-346.		12
148	Knittable and Washable Multifunctional MXeneâ€Coated Cellulose Yarns. Advanced Functional Materials, 2019, 29, 1905015.	7.8	239
149	MXeneâ€Bonded Flexible Hard Carbon Film as Anode for Stable Na/Kâ€Ion Storage. Advanced Functional Materials, 2019, 29, 1906282.	7.8	214
150	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
151	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. Angewandte Chemie, 2019, 131, 18013-18019.	1.6	38
152	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. Angewandte Chemie - International Edition, 2019, 58, 17849-17855.	7.2	117
153	Nano as a Rosetta Stone: The Global Roles and Opportunities for Nanoscience and Nanotechnology. ACS Nano, 2019, 13, 10853-10855.	7.3	16
154	The Rise of MXenes. ACS Nano, 2019, 13, 8491-8494.	7.3	1,399
155	Ultrafast Growth of Thin Hexagonal and Pyramidal Molybdenum Nitride Crystals and Films. , 2019, 1, 383-388.		17
156	A General Atomic Surface Modification Strategy for Improving Anchoring and Electrocatalysis Behavior of Ti₃C₂T₂ MXene in Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 11078-11086.	7.3	232
157	Electrochemical Interaction of Sn-Containing MAX Phase (Nb₂SnC) with Li-Ions. ACS Energy Letters, 2019, 4, 2452-2457.	8.8	36
158	Electrochemical Actuators Based on Two-Dimensional Ti₃C₂T_x (MXene). Nano Letters, 2019, 19, 7443-7448.	4.5	108
159	Ultralight and Mechanically Robust Ti₃C₂T_x Hybrid Aerogel Reinforced by Carbon Nanotubes for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2019, 11, 38046-38054.	4.0	283
160	Boosting Performance of Naâ€“S Batteries Using Sulfur-Doped Ti₃C₂T_x MXene Nanosheets with a Strong Affinity to Sodium Polysulfides. ACS Nano, 2019, 13, 11500-11509.	7.3	220
161	Colloidal Gelation in Liquid Metals Enables Functional Nanocomposites of 2D Metal Carbides (MXenes) and Lightweight Metals. ACS Nano, 2019, 13, 12415-12424.	7.3	41
162	Nanotechnology Facets of the Periodic Table of Elements. ACS Nano, 2019, 13, 10879-10886.	7.3	26

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163	van der Waals epitaxy of highly (111)-oriented BaTiO3 on MXene. Nanoscale, 2019, 11, 622-630.	2.8	7
164	Carbonâ€Based Metalâ€Free Catalysts for Energy Storage and Environmental Remediation. Advanced Materials, 2019, 31, e1806128.	11.1	188
165	Magnesium-Ion Storage Capability of MXenes. ACS Applied Energy Materials, 2019, 2, 1572-1578.	2.5	89
166	Control of MXenesâ€™ electronic properties through termination and intercalation. Nature Communications, 2019, 10, 522.	5.8	721
167	Capacitance of coarse-grained carbon electrodes with thickness up to 800â€Î¼m. Electrochimica Acta, 2019, 302, 38-44.	2.6	14
168	SnO₂â€“Ti₃C₂ MXene electron transport layers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 5635-5642.	5.2	173
169	Electrospun MXene/carbon nanofibers as supercapacitor electrodes. Journal of Materials Chemistry A, 2019, 7, 269-277.	5.2	464
170	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	7.3	211
171	Revealing the Pseudoâ€Intercalation Charge Storage Mechanism of MXenes in Acidic Electrolyte. Advanced Functional Materials, 2019, 29, 1902953.	7.8	176
172	Twoâ€Dimensional Arrays of Transition Metal Nitride Nanocrystals. Advanced Materials, 2019, 31, e1902393.	11.1	93
173	Onâ€Chip MXene Microsupercapacitors for ACâ€Line Filtering Applications. Advanced Energy Materials, 2019, 9, 1901061.	10.2	113
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