

Tyler S Mathis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

2,736
citations

20
h-index

30
g-index

30
ext. papers

3,691
ext. citations

16.2
avg, IF

5.52
L-index

#	Paper	IF	Citations
29	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. <i>Nature</i> , 2018 , 557, 409-412	50.4	627
28	Energy Storage Data Reporting in Perspective Guidelines for Interpreting the Performance of Electrochemical Energy Storage Systems. <i>Advanced Energy Materials</i> , 2019 , 9, 1902007	21.8	349
27	Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , 2017 , 8, 336	17.4	257
26	Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , 2019 , 4, 241-248	62.3	229
25	Selective Etching of Silicon from Ti SiC (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5444-5448	16.4	185
24	Layer-by-layer assembly of MXene and carbon nanotubes on electrospun polymer films for flexible energy storage. <i>Nanoscale</i> , 2018 , 10, 6005-6013	7.7	124
23	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive TiC MXene. <i>ACS Nano</i> , 2021 , 15, 6420-6429	16.7	116
22	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. <i>Nano Letters</i> , 2015 , 15, 3189-94	11.5	100
21	Direct Writing of Additive-Free MXene-in-Water Ink for Electronics and Energy Storage. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800256	6.8	78
20	Selective Charging Behavior in an Ionic Mixture Electrolyte-Supercapacitor System for Higher Energy and Power. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18681-18687	16.4	76
19	Development of asymmetric supercapacitors with titanium carbide-reduced graphene oxide couples as electrodes. <i>Electrochimica Acta</i> , 2018 , 259, 752-761	6.7	71
18	Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. <i>Nature Communications</i> , 2020 , 11, 6160	17.4	71
17	Direct Assessment of Nanoconfined Water in 2D TiC Electrode Interspaces by a Surface Acoustic Technique. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8910-8917	16.4	66
16	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17849-17855	16.4	64
15	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , 2021 , 11, 2003025	21.8	59
14	Selective Etching of Silicon from Ti ₃ SiC ₂ (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie</i> , 2018 , 130, 5542-5546	3.6	56
13	Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , 2016 , 1, 1094-1099	20.1	37

12	Additive-Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. <i>Small</i> , 2021 , 17, 2006376	11	26
11	In Situ Acoustic Diagnostics of Particle-Binder Interactions in Battery Electrodes. <i>Joule</i> , 2018 , 2, 988-1003	7.8	24
10	Superfast high-energy storage hybrid device composed of MXene and Chevrel-phase electrodes operated in saturated LiCl electrolyte solution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19761-19773	13	24
9	Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. <i>ACS Nano</i> , 2021 , 15, 15274-15284	16.7	18
8	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 18013-18019	3.6	17
7	Influence of thermal treatment conditions on capacitive deionization performance and charge efficiency of carbon electrodes. <i>Separation and Purification Technology</i> , 2018 , 202, 67-75	8.3	15
6	Diffusion-Induced Transient Stresses in Li-Battery Electrodes Imaged by Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring and Environmental Scanning Electron Microscopy. <i>ACS Energy Letters</i> , 2019 , 4, 1907-1917	20.1	15
5	MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. <i>Science Translational Medicine</i> , 2021 , 13, eabf8629	17.5	13
4	Processing of Onion-like Carbon for Electrochemical Capacitors. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3103-M3108	2	10
3	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive Ti ₃ C ₂ MXene		6
2	Probing the Pseudocapacitive Charge Storage in TiC MXene Thin Films with X-ray Reflectivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43597-43605	9.5	2
1	MXtrodes: MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation		1