## Tyler S Mathis

## List of Publications by Year in Descending Order

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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.

2,736 29 30 20 h-index g-index citations papers 16.2 3,691 30 5.52 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
29	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive TiC MXene. <i>ACS Nano</i> , <b>2021</b> , 15, 6420-6429	16.7	116
28	Additive-Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. <i>Small</i> , <b>2021</b> , 17, 2006376	11	26
27	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003025	21.8	59
26	Probing the Pseudocapacitive Charge Storage in TiC MXene Thin Films with X-ray Reflectivity. <i>ACS Applied Materials &amp; Applied &amp; Applied Materials &amp; Applied </i>	9.5	2
25	Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. <i>ACS Nano</i> , <b>2021</b> , 15, 15274-15284	16.7	18
24	MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabf8629	17.5	13
23	Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. <i>Nature Communications</i> , <b>2020</b> , 11, 6160	17.4	71
22	Energy Storage Data Reporting in Perspective Liuidelines for Interpreting the Performance of Electrochemical Energy Storage Systems. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902007	21.8	349
21	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18013-18019	3.6	17
20	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17849-17855	16.4	64
19	Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , <b>2019</b> , 4, 241-24	862.3	229
18	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> , <b>2019</b> , 7, 19761-19773	13	24
17	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> , <b>2019</b> , 4, 1907-1917	20.1	15
16	Direct Writing of Additive-Free MXene-in-Water Ink for Electronics and Energy Storage. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800256	6.8	78
15	Selective Etching of Silicon from Ti SiC (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5444-5448	16.4	185
14	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
13	Influence of thermal treatment conditions on capacitive deionization performance and charge efficiency of carbon electrodes. <i>Separation and Purification Technology</i> , <b>2018</b> , 202, 67-75	8.3	15

## LIST OF PUBLICATIONS

12	Selective Etching of Silicon from Ti3SiC2 (MAX) To Obtain 2D Titanium Carbide (MXene).  Angewandte Chemie, <b>2018</b> , 130, 5542-5546	3.6	56
11	In Situ Acoustic Diagnostics of Particle-Binder Interactions in Battery Electrodes. <i>Joule</i> , <b>2018</b> , 2, 988-10	<b>03</b> 7.8	24
10	Development of asymmetric supercapacitors with titanium carbide-reduced graphene oxide couples as electrodes. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 752-761	6.7	71
9	Direct Assessment of Nanoconfined Water in 2D TiC Electrode Interspaces by a Surface Acoustic Technique. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8910-8917	16.4	66
8	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. <i>Nature</i> , <b>2018</b> , 557, 409-412	50.4	627
7	Processing of Onion-like Carbon for Electrochemical Capacitors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, M3103-M3108	2	10
6	Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , <b>2017</b> , 8, 336	17.4	257
5	Selective Charging Behavior in an Ionic Mixture Electrolyte-Supercapacitor System for Higher Energy and Power. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18681-18687	16.4	76
4	Demonstration of Li-Ion Capacity of MAX Phases. ACS Energy Letters, 2016, 1, 1094-1099	20.1	37
3	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. <i>Nano Letters</i> , <b>2015</b> , 15, 3189-94	11.5	100
2	Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive Ti3C2 MXene		6
1	MXtrodes: MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation		1