

# Varun Natu

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

1,130  
citations

623188

14  
h-index

794141

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge Capping of 2D MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12655-12660.	7.2	225
2	A critical analysis of the X-ray photoelectron spectra of Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXenes. <i>Matter</i> , 2021, 4, 1224-1251.	5.0	180
3	Effect of Edge Charges on Stability and Aggregation of Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Colloidal Suspensions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27745-27753.	1.5	150
4	Mesoporous MXene powders synthesized by acid induced crumpling and their use as Na-ion battery anodes. <i>Materials Research Letters</i> , 2018, 6, 230-235.	4.1	115
5	Edge Capping of 2D MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. <i>Angewandte Chemie</i> , 2019, 131, 12785-12790.	1.6	78
6	Stoichiometry and surface structure dependence of hydrogen evolution reaction activity and stability of Mo <sub>x</sub> C MXenes. <i>Journal of Catalysis</i> , 2019, 371, 325-332.	3.1	51
7	Unique cellular network formation guided by heterostructures based on reduced graphene oxide - Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene hydrogels. <i>Acta Biomaterialia</i> , 2020, 115, 104-115.	4.1	47
8	Effect of Cationic Exchange on the Hydration and Swelling Behavior of Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXenes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20044-20050.	1.5	45
9	Dispersion and Stabilization of Alkylated 2D MXene in Nonpolar Solvents and Their Pseudocapacitive Behavior. <i>Cell Reports Physical Science</i> , 2020, 1, 100042.	2.8	43
10	Anion Adsorption, Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Multilayers, and Their Effect on Claylike Swelling. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23172-23179.	1.5	42
11	Two-Dimensional MXenes Mo <sub>2</sub> Ti <sub>2</sub> C <sub>3</sub> T <sub>z</sub> and Mo <sub>2</sub> TiC <sub>2</sub> T <sub>z</sub> : Microscopic Conductivity and Dynamics of Photoexcited Carriers. <i>ACS Applied Energy Materials</i> , 2020, 3, 1530-1539.	2.5	37
12	Effect of Base/Nucleophile Treatment on Interlayer Ion Intercalation, Surface Terminations, and Osmotic Swelling of Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Multilayers. <i>Chemistry of Materials</i> , 2022, 34, 678-693.	3.2	33
13	Highly Efficient Ultralow Pd Loading Supported on MAX Phases for Chemoselective Hydrogenation. <i>ACS Catalysis</i> , 2020, 10, 5899-5908.	5.5	27
14	Synthesis of new M-layer solid-solution 312 MAX phases (Ta <sub>1-x</sub> Ti <sub>x</sub> ) <sub>3</sub> AlC <sub>2</sub> (x = 0.4, 0.62), Tj ETQq170 0 rgBT/Overlock	1.7	24
15	Enhancing catalytic epoxide ring-opening selectivity using surface-modified Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes. <i>2D Materials</i> , 2021, 8, 035003.	2.0	15
16	Thermal stability of the nanolayered Fe <sub>2</sub> AlB <sub>2</sub> in nitrogen and argon atmospheres. <i>Journal of the American Ceramic Society</i> , 2021, 104, 733-739.	1.9	10
17	Anion Identity and Time Scale Affect the Cation Insertion Energy Storage Mechanism in Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Multilayers. <i>ACS Energy Letters</i> , 2022, 7, 1828-1834.	8.8	4
18	Electrocatalytic oxygen evolution reaction (OER) on mixed nanoporous Ru <sub>1-x</sub> borides. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1101-1108.	1.5	3

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19	Thin-film growth of MAX phases as functional materials. Oxford Open Materials Science, 2020, 1, .	0.5	3