

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	Effect of Base/Nucleophile Treatment on Interlayer Ion Intercalation, Surface Terminations, and Osmotic Swelling of $\text{Ti}_3\text{C}_2\text{T}_z$ MXene Multilayers. <i>Chemistry of Materials</i> , 2022, 34, 678-693.	3.2	33
2	Anion Identity and Time Scale Affect the Cation Insertion Energy Storage Mechanism in $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Multilayers. <i>ACS Energy Letters</i> , 2022, 7, 1828-1834.	8.8	4
3	Thermal stability of the nanolayered Fe_2AlB_2 in nitrogen and argon atmospheres. <i>Journal of the American Ceramic Society</i> , 2021, 104, 733-739.	1.9	10
4	Enhancing catalytic epoxide ring-opening selectivity using surface-modified $\text{Ti}_3\text{C}_2\text{T}_x$ MXenes. <i>2D Materials</i> , 2021, 8, 035003.	2.0	15
5	A critical analysis of the X-ray photoelectron spectra of $\text{Ti}_3\text{C}_2\text{T}_z$ MXenes. <i>Matter</i> , 2021, 4, 1224-1251.	5.0	180
6	Electrocatalytic oxygen evolution reaction (OER) on mixed nanoporous RuIr borides. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1101-1108.	1.5	3
7	Synthesis of new M-layer solid-solution 312 MAX phases ($\text{Ta}_{1-x}\text{Ti}_x\text{AlC}_2$ ($x = 0.4, 0.62$)). <i>Tj ETQq1.7l 0.784314 rgBT</i>		
8	Two-Dimensional MXenes $\text{Mo}_2\text{Ti}_2\text{C}_3\text{T}_z$ and $\text{Mo}_2\text{TiC}_2\text{T}_z$: Microscopic Conductivity and Dynamics of Photoexcited Carriers. <i>ACS Applied Energy Materials</i> , 2020, 3, 1530-1539.	2.5	37
9	Unique cellular network formation guided by heterostructures based on reduced graphene oxide - $\text{Ti}_3\text{C}_2\text{T}_x$ MXene hydrogels. <i>Acta Biomaterialia</i> , 2020, 115, 104-115.	4.1	47
10	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
11	Highly Efficient Ultralow Pd Loading Supported on MAX Phases for Chemoselective Hydrogenation. <i>ACS Catalysis</i> , 2020, 10, 5899-5908.	5.5	27
12	Thin-film growth of MAX phases as functional materials. <i>Oxford Open Materials Science</i> , 2020, 1, .	0.5	3
13	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
14	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
15	Effect of Cationic Exchange on the Hydration and Swelling Behavior of $\text{Ti}_3\text{C}_2\text{T}_z$ MXenes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20044-20050.	1.5	45
16	Stoichiometry and surface structure dependence of hydrogen evolution reaction activity and stability of MoxC MXenes. <i>Journal of Catalysis</i> , 2019, 371, 325-332.	3.1	51
17	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
18	Effect of Edge Charges on Stability and Aggregation of $\text{Ti}_3\text{C}_2\text{T}_z$ MXene Colloidal Suspensions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27745-27753.	1.5	150

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19	Anion Adsorption, Ti ₃ C ₂ Z MXene Multilayers, and Their Effect on Claylike Swelling. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23172-23179.	1.5	42