

# Xiaofei Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

1,580  
citations

516561

16  
h-index

677027

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1690  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidants Unlock Shelf-Stable Ti <sub>3</sub> C <sub>2</sub> T (MXene) Nanosheet Dispersions. <i>Matter</i> , 2019, 1, 513-526.	5.0	436
2	Oxidation stability of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanosheets in solvents and composite films. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	312
3	Water Sorption in MXene/Polyelectrolyte Multilayers for Ultrafast Humidity Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 948-955.	2.4	173
4	Sorption of three common nonsteroidal anti-inflammatory drugs (NSAIDs) to microplastics. <i>Science of the Total Environment</i> , 2020, 715, 136974.	3.9	103
5	pH, Nanosheet Concentration, and Antioxidant Affect the Oxidation of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> and Ti <sub>2</sub> CT <sub>x</sub> MXene Dispersions. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000845.	1.9	99
6	Layer-by-Layer Assembly of Reduced Graphene Oxide and MXene Nanosheets for Wire-Shaped Flexible Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14068-14076.	4.0	74
7	Water-dispersible Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene nanosheets by molten salt etching. <i>IScience</i> , 2021, 24, 103403.	1.9	60
8	Annealed Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> MXene Films for Oxidation-Resistant Functional Coatings. <i>ACS Applied Nano Materials</i> , 2020, 3, 10578-10585.	2.4	49
9	In vivo effects on the immune function of fathead minnow ( <i>Pimephales promelas</i> ) following ingestion and intraperitoneal injection of polystyrene nanoplastics. <i>Science of the Total Environment</i> , 2020, 735, 139461.	3.9	39
10	Aramid nanofiber-reinforced three-dimensional graphene hydrogels for supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 581-588.	5.0	38
11	Heating of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/polymer composites in response to Radio Frequency fields. <i>Scientific Reports</i> , 2019, 9, 16489.	1.6	32
12	Rapid Heating of Silicon Carbide Fibers under Radio Frequency Fields and Application in Curing Preceramic Polymer Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 46132-46139.	4.0	29
13	pH-Response of polycation/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene layer-by-layer assemblies for use as resistive sensors. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 366-375.	1.7	24
14	Carbon Additive-Free Crumpled Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Encapsulated Silicon Nanoparticle Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 10762-10773.	2.5	20
15	Electronic and Optical Property Control of Polycation/MXene Layer-by-Layer Assemblies with Chemically Diverse MXenes. <i>Langmuir</i> , 2021, 37, 11338-11350.	1.6	19
16	Minimizing two-dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanosheet loading in carbon-free silicon anodes. <i>Nanoscale</i> , 2020, 12, 20699-20709.	2.8	18
17	The Role of Antioxidant Structure in Mitigating Oxidation in Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> and Ti <sub>2</sub> CT <sub>x</sub> MXenes. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	16
18	Radio frequency heating and reduction of Graphene Oxide and Graphene Oxide - Polyvinyl Alcohol Composites. <i>Carbon</i> , 2020, 169, 475-481.	5.4	15

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19	Graphene Oxide Synthesis: Reaction Calorimetry and Safety. Industrial & Engineering Chemistry Research, 2020, 59, 9004-9014.	1.8	14
20	Sustainable production of graphene from petroleum coke using electrochemical exfoliation. Npj 2D Materials and Applications, 2021, 5, .	3.9	6
21	Rheological behavior of a low crystallinity polyolefin-modified asphalt binder for flexible pavements. Case Studies in Construction Materials, 2021, 15, e00640.	0.8	3