

Xian-Hu Zha

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33

papers

1,826

citations

18

h-index

37

g-index

37

ext. papers

2,439

ext. citations

6.5

avg, IF

4.69

L-index

#	Paper	IF	Citations
33	A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. <i>Nature Materials</i> , 2020 , 19, 894-899	27	368
32	A Two-Dimensional Zirconium Carbide by Selective Etching of Al ₃ C ₃ from Nanolaminated Zr ₃ Al ₃ C ₅ . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5008-13	16.4	247
31	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. <i>ACS Nano</i> , 2017 , 11, 3841-3850	16.7	229
30	Role of the surface effect on the structural, electronic and mechanical properties of the carbide MXenes. <i>Europhysics Letters</i> , 2015 , 111, 26007	1.6	161
29	Promising electron mobility and high thermal conductivity in Sc ₂ CT ₂ (T = F, OH) MXenes. <i>Nanoscale</i> , 2016 , 8, 6110-7	7.7	141
28	The thermal and electrical properties of the promising semiconductor MXene Hf ₂ CO ₂ . <i>Scientific Reports</i> , 2016 , 6, 27971	4.9	115
27	Intrinsic Structural, Electrical, Thermal, and Mechanical Properties of the Promising Conductor Mo ₂ C MXene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15082-15088	3.8	98
26	A Two-Dimensional Zirconium Carbide by Selective Etching of Al ₃ C ₃ from Nanolaminated Zr ₃ Al ₃ C ₅ . <i>Angewandte Chemie</i> , 2016 , 128, 5092-5097	3.6	55
25	Structures and Mechanical and Electronic Properties of the Ti ₂ CO ₂ MXene Incorporated with Neighboring Elements (Sc, V, B and N). <i>Journal of Electronic Materials</i> , 2017 , 46, 2460-2466	1.9	42
24	Multielemental single-atom-thick layers in nanolaminated V(Sn,) C (= Fe, Co, Ni, Mn) for tailoring magnetic properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 820-825	11.5	42
23	Electronic and Transport Properties of Ti ₂ CO ₂ MXene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17143-17152	3.8	35
22	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti(AlCu)C and Its Artificial Enzyme Behavior. <i>ACS Nano</i> , 2019 , 13, 9198-9205	16.7	31
21	Tuning the Electrical Conductivity of Ti ₂ CO ₂ MXene by Varying the Layer Thickness and Applying Strains. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6802-6811	3.8	25
20	Two-Dimensional Hydroxyl-Functionalized and Carbon-Deficient Scandium Carbide, ScC OH, a Direct Band Gap Semiconductor. <i>ACS Nano</i> , 2019 , 13, 1195-1203	16.7	24
19	Controllable magnitude and anisotropy of the electrical conductivity of HfCO MXene. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 165701	1.8	22
18	New insight into the helium-induced damage in MAX phase Ti ₃ AlC ₂ by first-principles studies. <i>Journal of Chemical Physics</i> , 2015 , 143, 114707	3.9	22
17	Designing a reductive hybrid membrane to selectively capture noble metallic ions during oil/water emulsion separation with further function enhancement. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10217-10223	13.0	230

16	Electronic structures and mechanical properties of Al(111)/ZrB ₂ (0001) heterojunctions from first-principles calculation. <i>Molecular Physics</i> , 2015 , 113, 1794-1801	1.7	18
15	Bipolar magnetic semiconductors among intermediate states during the conversion from ScC(OH) to ScCO MXene. <i>Nanoscale</i> , 2018 , 10, 8763-8771	7.7	18
14	Theoretical investigations on helium trapping in the Zr/Ti ₂ AlC interface. <i>Surface and Coatings Technology</i> , 2017 , 322, 19-24	4.4	14
13	First-principles study on the electrical and thermal properties of the semiconducting Sc(CN)F MXene.. <i>RSC Advances</i> , 2018 , 8, 22452-22459	3.7	14
12	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. <i>Nanoscale</i> , 2020 , 12, 3795-3802	7.7	14
11	Point defect weakened thermal contraction in monolayer graphene. <i>Journal of Chemical Physics</i> , 2014 , 141, 064705	3.9	11
10	Mo ₂ B, an MBene member with high electrical and thermal conductivities, and satisfactory performances in lithium ion batteries. <i>Nanoscale Advances</i> , 2020 , 2, 347-355	5.1	11
9	A theoretical investigation and synthesis of layered ternary carbide system U-Al-C. <i>Ceramics International</i> , 2018 , 44, 1646-1652	5.1	8
8	Tuning thermal expansions of zinc oxide sheets by varying the layer thickness. <i>Europhysics Letters</i> , 2014 , 107, 26007	1.6	7
7	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 135302	1.8	6
6	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. <i>Chemical Physics Letters</i> , 2020 , 760, 137997	2.5	6
5	Non-MAX Phase Precursors for MXenes 2019 , 53-68		5
4	On-Demand Preparation of β -Phase-Dominated Tungsten Films for Highly Qualified Thermal Reflectors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900031	4.6	4
3	Remarkable Thermal Contraction in Small Size Single-Walled Boron Nanotubes. <i>Communications in Computational Physics</i> , 2014 , 16, 201-212	2.4	4
2	First-principles study of magnetism in some novel MXene materials.. <i>RSC Advances</i> , 2020 , 10, 44430-44436	3.7	1
1	Theoretical exploration on the vibrational and mechanical properties of M ₃ C ₂ /M ₃ C ₂ T ₂ MXenes. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26409	2.1	1