

# Xian-Hu Zha

## 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.

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> , <b>2020</b> , 19, 894-899	27	368
32	First-principles study of magnetism in some novel MXene materials.. <i>RSC Advances</i> , <b>2020</b> , 10, 44430-44436	3.7	1
31	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. <i>Nanoscale</i> , <b>2020</b> , 12, 3795-3802	7.7	14
30	Mo2B, an MBene member with high electrical and thermal conductivities, and satisfactory performances in lithium ion batteries. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 347-355	5.1	11
29	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> , <b>2020</b> , 117, 820-825	11.5	42
28	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 135302	1.8	6
27	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. <i>Chemical Physics Letters</i> , <b>2020</b> , 760, 137997	2.5	6
26	Theoretical exploration on the vibrational and mechanical properties of M3C2/M3C2T2 MXenes. <i>International Journal of Quantum Chemistry</i> , <b>2020</b> , 120, e26409	2.1	1
25	Two-Dimensional Hydroxyl-Functionalized and Carbon-Deficient Scandium Carbide, ScC OH, a Direct Band Gap Semiconductor. <i>ACS Nano</i> , <b>2019</b> , 13, 1195-1203	16.7	24
24	On-Demand Preparation of $\beta$ Phase-Dominated Tungsten Films for Highly Qualified Thermal Reflectors. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900031	4.6	4
23	Tuning the Electrical Conductivity of Ti2CO2 MXene by Varying the Layer Thickness and Applying Strains. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 6802-6811	3.8	25
22	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti(AlCu)C and Its Artificial Enzyme Behavior. <i>ACS Nano</i> , <b>2019</b> , 13, 9198-9205	16.7	31
21	Non-MAX Phase Precursors for MXenes <b>2019</b> , 53-68		5
20	Bipolar magnetic semiconductors among intermediate states during the conversion from ScC(OH) to ScCO MXene. <i>Nanoscale</i> , <b>2018</b> , 10, 8763-8771	7.7	18
19	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> , <b>2018</b> , 6, 10217-10225	13.2	20
18	A theoretical investigation and synthesis of layered ternary carbide system U-Al-C. <i>Ceramics International</i> , <b>2018</b> , 44, 1646-1652	5.1	8
17	First-principles study on the electrical and thermal properties of the semiconducting Sc(CN)F MXene.. <i>RSC Advances</i> , <b>2018</b> , 8, 22452-22459	3.7	14

16	Structures and Mechanical and Electronic Properties of the Ti <sub>2</sub> CO <sub>2</sub> MXene Incorporated with Neighboring Elements (Sc, V, B and N). <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2460-2466	1.9	42
15	Controllable magnitude and anisotropy of the electrical conductivity of HfCO MXene. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 165701	1.8	22
14	Theoretical investigations on helium trapping in the Zr/Ti <sub>2</sub> AlC interface. <i>Surface and Coatings Technology</i> , <b>2017</b> , 322, 19-24	4.4	14
13	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. <i>ACS Nano</i> , <b>2017</b> , 11, 3841-3850	16.7	229
12	Electronic and Transport Properties of Ti <sub>2</sub> CO <sub>2</sub> MXene Nanoribbons. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17143-17152	3.8	35
11	Promising electron mobility and high thermal conductivity in Sc <sub>2</sub> CT <sub>2</sub> (T = F, OH) MXenes. <i>Nanoscale</i> , <b>2016</b> , 8, 6110-7	7.7	141
10	Intrinsic Structural, Electrical, Thermal, and Mechanical Properties of the Promising Conductor Mo <sub>2</sub> C MXene. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15082-15088	3.8	98
9	A Two-Dimensional Zirconium Carbide by Selective Etching of Al <sub>3</sub> C <sub>3</sub> from Nanolaminated Zr <sub>3</sub> Al <sub>3</sub> C <sub>5</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5008-13	16.4	247
8	A Two-Dimensional Zirconium Carbide by Selective Etching of Al <sub>3</sub> C <sub>3</sub> from Nanolaminated Zr <sub>3</sub> Al <sub>3</sub> C <sub>5</sub> . <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5092-5097	3.6	55
7	The thermal and electrical properties of the promising semiconductor MXene Hf <sub>2</sub> CO <sub>2</sub> . <i>Scientific Reports</i> , <b>2016</b> , 6, 27971	4.9	115
6	Electronic structures and mechanical properties of Al(111)/ZrB <sub>2</sub> (0001) heterojunctions from first-principles calculation. <i>Molecular Physics</i> , <b>2015</b> , 113, 1794-1801	1.7	18
5	New insight into the helium-induced damage in MAX phase Ti <sub>3</sub> AlC <sub>2</sub> by first-principles studies. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 114707	3.9	22
4	Role of the surface effect on the structural, electronic and mechanical properties of the carbide MXenes. <i>Europhysics Letters</i> , <b>2015</b> , 111, 26007	1.6	161
3	Point defect weakened thermal contraction in monolayer graphene. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 064705	3.9	11
2	Tuning thermal expansions of zinc oxide sheets by varying the layer thickness. <i>Europhysics Letters</i> , <b>2014</b> , 107, 26007	1.6	7
1	Remarkable Thermal Contraction in Small Size Single-Walled Boron Nanotubes. <i>Communications in Computational Physics</i> , <b>2014</b> , 16, 201-212	2.4	4