

# Xun Zhan

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

383  
citations

840776

11  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

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times ranked

538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Prediction of Elastic Stiffness and Minimum Lattice Thermal Conductivity of $\text{Y}_3\text{Al}_5\text{O}_{12}$ , $\text{YAlO}_3$ and $\text{Y}_4\text{Al}_2\text{O}_9$ . <i>Journal of the American Ceramic Society</i> , 2012, 95, 1428-1434.	3.8	84
2	High Aspect Ratio $\text{In}_2\text{Ga}_2\text{O}_3$ Fin Arrays with Low-Interface Charge Density by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2019, 13, 8784-8792.	14.6	57
3	Near Degeneracy of Magnetic Phases in Two-Dimensional Chromium Telluride with Enhanced Perpendicular Magnetic Anisotropy. <i>ACS Nano</i> , 2020, 14, 15256-15266.	14.6	35
4	A facile alkali metal hydroxide-assisted controlled and targeted synthesis of 1T $\text{MoS}_2$ single-crystal nanosheets for lithium ion battery anodes. <i>Nanoscale</i> , 2019, 11, 14857-14862.	5.6	30
5	Crystallization micro-mechanism of near-eutectic amorphous Ni-P. <i>Acta Materialia</i> , 2016, 104, 274-282.	7.9	27
6	Van der Waals Superstructure and Twisting in Self-Intercalated Magnet with Near Room-Temperature Perpendicular Ferromagnetism. <i>Nano Letters</i> , 2021, 21, 9517-9525.	9.1	24
7	Insights into High-Temperature Uniaxial Compression Deformation Behavior of $\text{Ti}_3\text{AlC}_2$ . <i>Journal of the American Ceramic Society</i> , 2015, 98, 3332-3337.	3.8	23
8	Metallic 1T phase $\text{MoS}_2/\text{MnO}$ composites with improved cyclability for lithium-ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2019, 796, 25-32.	5.5	22
9	Promoting Methanol Synthesis and Inhibiting $\text{CO}_2$ Methanation with Bimetallic In-Ru Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11891-11902.	6.7	17
10	Carbon-Free, High-Capacity and Long Cycle Life 1D-2D $\text{NiMoO}_4$ Nanowires/Metallic 1T $\text{MoS}_2$ Composite Lithium-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44593-44600.	8.0	14
11	Effect of tungsten alloying on short-to-medium-range-order evolution and crystallization behavior of near-eutectic amorphous Ni-P. <i>Acta Materialia</i> , 2017, 122, 400-411.	7.9	13
12	On the small angle twist sub-grain boundaries in $\text{Ti}_3\text{AlC}_2$ . <i>Scientific Reports</i> , 2016, 6, 23943.	3.3	8
13	Strengthening $\text{Ti}_3\text{AlC}_2$ by <i>In Situ</i> Synthesizing $\text{Ti}_3\text{AlC}_2$ - $\text{Y}_4\text{Al}_2\text{O}_9$ Composites. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2314-2321.	3.8	7
14	Direct, Transfer-Free Growth of Large-Area Hexagonal Boron Nitride Films by Plasma-Enhanced Chemical Film Conversion (PECFC) of Printable, Solution-Processed Ammonia Borane. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43936-43945.	8.0	7
15	Effect of tungsten alloying on magnetic properties of amorphous Ni-P. <i>Journal of Alloys and Compounds</i> , 2019, 786, 742-749.	5.5	5
16	Modified microstructures in proton irradiated dual phase 308L weldment filler material. <i>Journal of Nuclear Materials</i> , 2021, 548, 152825.	2.7	4
17	Crystallization of Ni-P Fabricated by Electroless Deposition: Microscopic Mechanism. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1757, 20.	0.1	2
18	Asymmetric ferroelectricity by design in atomic-layer superlattices with broken inversion symmetry. <i>Physical Review B</i> , 2021, 104, .	3.2	2

#	ARTICLE	IF	CITATIONS
19	Determination of Mn Valences in $\text{Li}_{1-x}\text{Mg}_x\text{Mn}_2\text{O}_4$ Using Monochromated EELS in an Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 658-659.	0.4	1
20	Determination of Crystallinity in $\text{Li}_{1-x}\text{Mg}_x\text{Mn}_2\text{O}_4$ Nanocrystals Based on Diffraction Patterns Correlation Analysis and Strain Mapping. <i>Microscopy and Microanalysis</i> , 2019, 25, 1972-1973.	0.4	1