

# Xin Zhong

## List of Publications by Year in descending order

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24  
papers

473  
citations

933447

10  
h-index

752698

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

607  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tellurium Hydrides at High Pressures: High-Temperature Superconductors. <i>Physical Review Letters</i> , 2016, 116, 057002.	7.8	132
2	Electrical Control of Magnetic Phase Transition in a Type-I Multiferroic Double-Metal Trihalide Monolayer. <i>Physical Review Letters</i> , 2020, 124, 067602.	7.8	84
3	The intrinsic magnetism, quantum anomalous Hall effect and Curie temperature in 2D transition metal trihalides. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2429-2436.	2.8	42
4	Prediction of Above-Room-Temperature Superconductivity in Lanthanide/Actinide Extreme Superhydrides. <i>Journal of the American Chemical Society</i> , 2022, 144, 13394-13400.	13.7	33
5	Predicting the structure and stability of titanium oxide electrides. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	25
6	Pressure stabilization of long-missing bare C6 hexagonal rings in binary sesquicarbides. <i>Chemical Science</i> , 2014, 5, 3936-3940.	7.4	21
7	Crystal Structures and Electronic Properties of Oxygen-rich Titanium Oxides at High Pressure. <i>Inorganic Chemistry</i> , 2018, 57, 3254-3260.	4.0	19
8	Structure evolution of chromium-doped boron clusters: toward the formation of endohedral boron cages. <i>RSC Advances</i> , 2019, 9, 2870-2876.	3.6	18
9	Ten-fold coordinated polymorph and metallization of TiO <sub>2</sub> under high pressure. <i>RSC Advances</i> , 2015, 5, 54253-54257.	3.6	16
10	Monoclinic high-pressure polymorph of AlOOH predicted from first principles. <i>Physical Review B</i> , 2016, 94, .	3.2	13
11	Effect of Tb-doped Concentration Variation on the Electrical and Dielectric Properties of CaF <sub>2</sub> Nanoparticles. <i>Nanomaterials</i> , 2018, 8, 532.	4.1	10
12	Decomposition and Recombination of Binary Interalkali Na <sub>2</sub> /K at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3006-3012.	4.6	10
13	Ionic Transportation and Dielectric Properties of YF <sub>3</sub> :Eu <sup>3+</sup> Nanocrystals. <i>Nanomaterials</i> , 2018, 8, 995.	4.1	9
14	hidden $PT$ -symmetry-protected Dirac states in strain-induced $MoS_2$ monolayer. <i>Physical Review B</i> , 2019, 100, .	3.2	9
15	The Electrical Properties of Tb-Doped CaF <sub>2</sub> Nanoparticles under High Pressure. <i>Crystals</i> , 2018, 8, 98.	2.2	8
16	Predicted Stable Structures of the Li- <sup>109</sup> Ag System at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1671-1675.	4.6	8
17	C-O bond activation and splitting behaviours of CO <sub>2</sub> on a 4H-SiC surface: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26846-26852.	2.8	6
18	Novel high-pressure structure and superconductivity of titanium trisulfide. <i>Computational Materials Science</i> , 2019, 158, 192-196.	3.0	6

#	ARTICLE	IF	CITATIONS
19	Ti-fraction-induced electronic and magnetic transformations in titanium oxide films. Journal of Chemical Physics, 2019, 150, 154704.	3.0	2
20	The unconventionally stoichiometric compounds in the Na <sup>+</sup> K system at high pressures. Computational Materials Science, 2021, 200, 110818.	3.0	2
21	The Electric and Dielectric Properties of SrF <sub>2</sub> :Tb <sup>3+</sup> Nanocrystals Revealed by AC Impedance Spectroscopy. Crystals, 2020, 10, 31.	2.2	0
22	Charge Carrier Transport Behavior and Dielectric Properties of BaF <sub>2</sub> :Tb <sup>3+</sup> Nanocrystals. Nanomaterials, 2020, 10, 155.	4.1	0
23	Two-Dimensional TeB Structures with Anisotropic Carrier Mobility and Tunable Bandgap. Molecules, 2021, 26, 6404.	3.8	0
24	Unconventional Stoichiometries of Na <sup>+</sup> O Compounds at High Pressures. Materials, 2021, 14, 7650.	2.9	0