

# Jingming Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

410  
citations

840776

11  
h-index

752698

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

517  
citing authors

#	ARTICLE	IF	CITATIONS
1	high- $T_c$ superconductivity via intercalated $\text{CH}_4$	3.2	54
2	Effect of covalent bonding on the superconducting critical temperature of the H-S-Se system. Physical Review B, 2018, 98, .	3.2	54
3	The intrinsic magnetism, quantum anomalous Hall effect and Curie temperature in 2D transition metal trihalides. Physical Chemistry Chemical Physics, 2020, 22, 2429-2436.	2.8	42
4	Formation of ammonia-helium compounds at high pressure. Nature Communications, 2020, 11, 3164.	12.8	39
5	Hydrogen segregation and its roles in structural stability and metallization: silane under pressure. Scientific Reports, 2015, 5, 13039.	3.3	17
6	Computational Design of Novel Hydrogen-Rich YH Compounds. ACS Omega, 2019, 4, 14317-14323.	3.5	17
7	Nitrogen-hydrogen-oxygen ternary phase diagram: New phases at high pressure from structural prediction. Physical Review Materials, 2018, 2, .	2.4	17
8	Hidden porous boron nitride as a high-efficiency membrane for hydrogen purification. Physical Chemistry Chemical Physics, 2020, 22, 22778-22784.	2.8	16
9	Prediction and Synthesis of a Non-Zintl Silicon Clathrate. Chemistry of Materials, 2016, 28, 3711-3717.	6.7	15
10	Investigation of new phases in the Ba-Si phase diagram under high pressure using ab initio structural search. Physical Chemistry Chemical Physics, 2016, 18, 8108-8114.	2.8	15
11	Prediction of superhard $\text{B}_2\text{N}_3$ with two-dimensional metallicity. Journal of Materials Chemistry C, 2019, 7, 4527-4532.	5.5	13
12	Prediction of strain-induced phonon-mediated superconductivity in monolayer YS. Journal of Materials Chemistry C, 2019, 7, 11184-11190.	5.5	11
13	Superconducting hydrogen tubes in hafnium hydrides at high pressure. Physical Review B, 2021, 104, .	3.2	11
14	Pressure-stabilized unconventional stoichiometric yttrium sulfides. Physical Review Research, 2020, 2, .	3.6	8
15	Superior carbon nanotube stability by molecular filling:a single-chirality study at extreme pressures. Carbon, 2021, 183, 884-892.	10.3	7
16	Helium incorporation induced direct-gap silicides. Npj Computational Materials, 2021, 7, .	8.7	6
17	Halogen molecular modifications at high pressure: the case of iodine. Physical Chemistry Chemical Physics, 2021, 23, 3321-3326.	2.8	5
18	Formation of $\text{N}_3\text{H}_3\text{Xe}_5$ compound at the extreme condition of planetary interiors. Physical Review B, 2022, 105, .	3.2	5

#	ARTICLE	IF	CITATIONS
19	High-Pressure Phases and Properties of the Mg <sub>3</sub> Sb <sub>2</sub> Compound. ACS Omega, 2020, 5, 31902-31907.	3.5	3
20	Superconductivity in S-rich phases of lanthanum sulfide under high pressure. Physical Review Materials, 2022, 6, .	2.4	3
21	Ti-fraction-induced electronic and magnetic transformations in titanium oxide films. Journal of Chemical Physics, 2019, 150, 154704.	3.0	2
22	Prediction of pressure-induced phase transformations in Mg <sub>3</sub> As <sub>2</sub> . RSC Advances, 2019, 9, 34401-34405.	3.6	2
23	Formation of solid $\text{SiO}_2$ compound at high pressure and high temperature. Physical Review B, 2022, 106, .		