

Hui Xie

List of Publications by Year in descending order

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papers

622
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759233

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26
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26
times ranked

375
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconducting praseodymium superhydrides. <i>Science Advances</i> , 2020, 6, eaax6849.	10.3	99
2	Hydrogen Pentagraphenelike Structure Stabilized by Hafnium: A High-Temperature Conventional Superconductor. <i>Physical Review Letters</i> , 2020, 125, 217001.	7.8	87
3	Polyhydride CeH ₉ with an atomic-like hydrogen clathrate structure. <i>Nature Communications</i> , 2019, 10, 3461.	12.8	81
4	High-Pressure Synthesis of Magnetic Neodymium Polyhydrides. <i>Journal of the American Chemical Society</i> , 2020, 142, 2803-2811.	13.7	59
5	Prediction of superconducting ternary hydride MgGeH ₆ : from divergent high-pressure formation routes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27406-27412.	2.8	40
6	Ternary superconducting phosphorus hydrides stabilized via lithium. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	38
7	Unique Phase Diagram and Superconductivity of Calcium Hydrides at High Pressures. <i>Inorganic Chemistry</i> , 2019, 58, 2558-2564.	4.0	33
8	High-temperature superconductivity in ternary clathrate YCaH ₁₂ under high pressures. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 245404.	1.8	31
9	Ab Initio Approach and Its Impact on Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 53-60.	1.8	29
10	Superconducting Zirconium Polyhydrides at Moderate Pressures. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 646-651.	4.6	26
11	High-Pressure Formation of Cobalt Polyhydrides: A First-Principle Study. <i>Inorganic Chemistry</i> , 2018, 57, 181-186.	4.0	22
12	Unexpected calcium polyhydride CaH ₄ : A possible route to dissociation of hydrogen molecules. <i>Journal of Chemical Physics</i> , 2019, 150, 044507.	3.0	17
13	Multistep Dissociation of Fluorine Molecules under Extreme Compression. <i>Physical Review Letters</i> , 2021, 126, 225704.	7.8	10
14	Ab initio studies of copper hydrides under high pressure. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	9
15	First-principles study of ternary Li-Al-Te compounds under high pressure. <i>Solid State Communications</i> , 2018, 270, 58-64.	1.9	6
16	Structural and electrical properties of GaTe systems under high pressure. <i>Chinese Physics B</i> , 2019, 28, 056104.	1.4	6
17	First principle studies of ZnO _{1-x} S _x alloys under high pressure. <i>Journal of Alloys and Compounds</i> , 2019, 788, 905-911.	5.5	6
18	Structure and superconductivity of protactinium hydrides under high pressure. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 315403.	1.8	6

#	ARTICLE	IF	CITATIONS
19	New Cage-Like Cerium Trihydride Stabilized at Ambient Conditions. CCS Chemistry, 0, , 1012-1018.	7.8	4
20	Structural, Electronic, and Optical Properties of ZnO _{1-x} Te _x Alloys. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900155.	2.4	3
21	Structural diversity and hydrogen storage properties in the system Kâ€“Siâ€“H. Physical Chemistry Chemical Physics, 2022, 24, 13033-13039.	2.8	3
22	High Tc superconductivity in layered hydrides XH15 (X = Ca, Sr, Y, La) under high pressures. Frontiers of Physics, 2022, 17, .	5.0	3
23	Synthesis of superconducting SbS and SbS2 antimony chalcogenide compounds at high pressures. Physical Review B, 2021, 103, .	3.2	2
24	Stable structures and superconductivity of an Atâ€“H system at high pressure. Physical Chemistry Chemical Physics, 2018, 20, 24783-24789.	2.8	1
25	Variational and diffusion Monte Carlo simulations of a hydrogen molecular ion in a spherical box*. Chinese Physics B, 2019, 28, 056401.	1.4	1
26	High pressure structural stability of the Na-Te system. AIP Advances, 2018, 8, 035123.	1.3	0