Hui Xie

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4066622/publications.pdf

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26	622	759233	610901
papers	citations	12 h-index	24 g-index

26	26	26	375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural diversity and hydrogen storage properties in the system Kâ€“Siâ€“H. Physical Chemistry Chemical Physics, 2022, 24, 13033-13039.	2.8	3
2	High Tc superconductivity in layered hydrides XH15 (X = Ca, Sr, Y, La) under high pressures. Frontiers of Physics, 2022, 17, .	5.0	3
3	Synthesis of superconducting SbS and SbS2 antimony chalcogenide compounds at high pressures. Physical Review B, 2021, 103, .	3.2	2
4	Multistep Dissociation of Fluorine Molecules under Extreme Compression. Physical Review Letters, 2021, 126, 225704.	7.8	10
5	Superconducting Zirconium Polyhydrides at Moderate Pressures. Journal of Physical Chemistry Letters, 2020, 11, 646-651.	4.6	26
6	Hydrogen Pentagraphenelike Structure Stabilized by Hafnium: A High-Temperature Conventional Superconductor. Physical Review Letters, 2020, 125, 217001.	7.8	87
7	Superconducting praseodymium superhydrides. Science Advances, 2020, 6, eaax6849.	10.3	99
8	High-Pressure Synthesis of Magnetic Neodymium Polyhydrides. Journal of the American Chemical Society, 2020, 142, 2803-2811.	13.7	59
9	Polyhydride CeH9 with an atomic-like hydrogen clathrate structure. Nature Communications, 2019, 10, 3461.	12.8	81
10	Variational and diffusion Monte Carlo simulations of a hydrogen molecular ion in a spherical box*. Chinese Physics B, 2019, 28, 056401.	1.4	1
11	Ternary superconducting cophosphorus hydrides stabilized via lithium. Npj Computational Materials, 2019, 5, .	8.7	38
12	Unexpected calcium polyhydride CaH4: A possible route to dissociation of hydrogen molecules. Journal of Chemical Physics, 2019, 150, 044507.	3.0	17
13	Structural, Electronic, and Optical Properties of ZnO_{1â€‰â€“â€‰x}Te_x Alloys. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900155.	2.4	3
14	Structural and electrical properties of Gaâ€“Te systems under high pressure. Chinese Physics B, 2019, 28, 056104.	1.4	6
15	Ab initio studies of copper hydrides under high pressure. Frontiers of Physics, 2019, 14, 1.	5.0	9
16	High-temperature superconductivity in ternary clathrate YCaH₁₂ under high pressures. Journal of Physics Condensed Matter, 2019, 31, 245404.	1.8	31
17	Unique Phase Diagram and Superconductivity of Calcium Hydrides at High Pressures. Inorganic Chemistry, 2019, 58, 2558-2564.	4.0	33
18	First principle studies of ZnO1-xSx alloys under high pressure. Journal of Alloys and Compounds, 2019, 788, 905-911.	5.5	6

#	Article	IF	Citations
19	Structure and superconductivity of protactinium hydrides under high pressure. Journal of Physics Condensed Matter, 2019, 31, 315403.	1.8	6
20	Ab Initio Approach and Its Impact on Superconductivity. Journal of Superconductivity and Novel Magnetism, 2019, 32, 53-60.	1.8	29
21	High pressure structural stability of the Na-Te system. AIP Advances, 2018, 8, 035123.	1.3	0
22	High-Pressure Formation of Cobalt Polyhydrides: A First-Principle Study. Inorganic Chemistry, 2018, 57, 181-186.	4.0	22
23	First-principles study of ternary Li-Al-Te compounds under high pressure. Solid State Communications, 2018, 270, 58-64.	1.9	6
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	Prediction of superconducting ternary hydride MgGeH₆: from divergent high-pressure formation routes. Physical Chemistry Chemical Physics, 2017, 19, 27406-27412.	2.8	40
26	New Cage-Like Cerium Trihydride Stabilized at Ambient Conditions. CCS Chemistry, 0, , 1012-1018.	7.8	4