

Kuo Bao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Insight the effect of rigid boron chain substructure on mechanical, magnetic and electrical properties of $\text{I}^2\text{-FeB}$. <i>Journal of Alloys and Compounds</i> , 2022, 896, 162767.	2.8	8
2	Synthesis, Characterization, and First-Principles Analysis of the MAB-Like Ternary Transition-Metal Boride $\text{Fe}(\text{MoB})_2$. <i>Inorganic Chemistry</i> , 2022, 61, 11046-11056.	1.9	6
3	An electrically conductive and ferromagnetic nano-structure manganese mono-boride with high Vickers hardness. <i>Nanoscale</i> , 2021, 13, 18570-18577.	2.8	9
4	Pressure-Induced Transition from Spin to Superconducting States in Novel MnN_2 . <i>ACS Omega</i> , 2021, 6, 21830-21836.	1.6	2
5	Revealing the Unusual Boron-Pinned Layered Substructure in Superconducting Hard Molybdenum Semiboride. <i>ACS Omega</i> , 2021, 6, 21436-21443.	1.6	5
6	Hardness, magnetic, elastic, and electronic properties of manganese semi-boride synthesized by high pressure and high temperature. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122386.	1.4	5
7	A novel hard superconductor obtained in di-molybdenum carbide (Mo_2C) with $\text{Mo}\text{-C}$ octahedral structure. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160631.	2.8	8
8	Bonding Properties of Manganese Nitrides at High Pressure and the Discovery of MnN_4 with Planar N_4 Rings. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24605-24612.	1.5	8
9	Synthesis and characterization of a strong ferromagnetic and high hardness intermetallic compound Fe_2B . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27425-27432.	1.3	15
10	Double-zigzag boron chain-enhanced Vickers hardness and manganese bilayers-induced high d-electron mobility in Mn_3B_4 . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2697-2705.	1.3	18
11	Role of $\text{TM}\text{-TM}$ Connection Induced by Opposite d-Electron States on the Hardness of Transition-Metal ($\text{TM} = \text{Cr}, \text{W}$) Mononitrides. <i>Inorganic Chemistry</i> , 2019, 58, 15573-15579.	1.9	10
12	Revealing the Unusual Rigid Boron Chain Substructure in Hard and Superconductive Tantalum Monoboride. <i>Chemistry - A European Journal</i> , 2019, 25, 5051-5057.	1.7	9
13	Superconductivity with high hardness in Mo_3C_2 . <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1282-1288.	3.0	16
14	Structural and Dynamic Properties of the High-Pressure, High-Temperature Phase of Solid Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6326-6332.	1.5	5
15	Complete ligand reinforcing the structure of cubic- CrN . <i>Journal of Alloys and Compounds</i> , 2019, 783, 232-236.	2.8	2
16	Revealing unusual rigid diamond net analogues in superhard titanium carbides. <i>RSC Advances</i> , 2018, 8, 14479-14487.	1.7	9
17	Emergent property of high hardness for C-rich ruthenium carbides: partial covalent $\text{Ru}\text{-Ru}$ bonds. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6108-6115.	1.3	5
18	A Novel High-Density Phase and Amorphization of Nitrogen-Rich 1H-Tetrazole (CH_2N_4) under High Pressure. <i>Scientific Reports</i> , 2017, 7, 39249.	1.6	12

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19	A first-principles investigation of a new hard multi-layered MnB ₂ structure. RSC Advances, 2017, 7, 10559-10563.	1.7	10
20	A Novel Polymerization of Nitrogen in Beryllium Tetranitride at High Pressure. Journal of Physical Chemistry C, 2017, 121, 9766-9772.	1.5	67
21	Manganese mono-boride, an inexpensive room temperature ferromagnetic hard material. Scientific Reports, 2017, 7, 43759.	1.6	47
22	Structural stability and electronic property in K ₂ S under pressure. RSC Advances, 2017, 7, 7424-7430.	1.7	13
23	Unexpected stable stoichiometries and superconductivity of potassium-rich sulfides. RSC Advances, 2017, 7, 44884-44889.	1.7	5
24	Pressure-induced structural transformation of CaC ₂ . Journal of Chemical Physics, 2016, 144, 194506.	1.2	5
25	Ab initio molecular dynamic study of solid-state transitions of ammonium nitrate. Scientific Reports, 2016, 6, 18918.	1.6	5
26	Potentially superhard hcp CrN ₂ compound studied at high pressure. Physical Review B, 2016, 93, .	1.1	33
27	Investigating Robust Honeycomb Borophenes Sandwiching Manganese Layers in Manganese Diboride. Inorganic Chemistry, 2016, 55, 11140-11146.	1.9	31
28	Pressure-induced phase transition of SnH ₄ : a new layered structure. RSC Advances, 2016, 6, 10456-10461.	1.7	10
29	Crossover from metal to insulator in dense lithium-rich compound CLi ₄ . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2366-2369.	3.3	21
30	Pressure-induced structural changes in NH ₄ Br. Journal of Chemical Physics, 2015, 143, 064505.	1.2	2
31	High-temperature Superconductivity in compressed Solid Silane. Scientific Reports, 2015, 5, 8845.	1.6	25
32	Effects of magnetic ordering and electron correlations on the stability of FeN. RSC Advances, 2015, 5, 31270-31274.	1.7	13
33	A novel stable hydrogen-rich SnH ₈ under high pressure. RSC Advances, 2015, 5, 107637-107641.	1.7	9
34	Phase diagram, mechanical properties, and electronic structure of NbN compounds under pressure. Physical Chemistry Chemical Physics, 2015, 17, 22837-22845.	1.3	27
35	Structural properties of ammonium iodide under high pressure. RSC Advances, 2015, 5, 40336-40340.	1.7	8
36	The hydrogenâ€bond effect on the high pressure behavior of hydrazinium monochloride. Journal of Raman Spectroscopy, 2015, 46, 266-272.	1.2	8

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37	An ultra-incompressible ternary transition metal carbide. RSC Advances, 2014, 4, 63544-63548.	1.7	7
38	Pressure induced phase transition in MH ₂ (M = V, Nb). Journal of Chemical Physics, 2014, 140, 114703.	1.2	18
39	The crystal structure of IrB ₂ : a first-principle calculation. RSC Advances, 2014, 4, 63442-63446.	1.7	10
40	Experimental verification of the high pressure crystal structures in NH ₃ BH ₃ . Journal of Chemical Physics, 2014, 140, 244507.	1.2	11
41	Mechanical and metallic properties of tantalum nitrides from first-principles calculations. RSC Advances, 2014, 4, 10133.	1.7	55
42	Structural stability and compressive behavior of ZrH ₂ under hydrostatic pressure and nonhydrostatic pressure. RSC Advances, 2014, 4, 46780-46786.	1.7	13
43	High pressure superconducting phase of Bi ₃ : an ab initio study. RSC Advances, 2014, 4, 32068-32074.	1.7	4
44	Nitrogen concentration driving the hardness of rhenium nitrides. Scientific Reports, 2014, 4, 4797.	1.6	61
45	Manganese borides synthesized at high pressure and high temperature. Journal of Applied Physics, 2012, 111, 112616.	1.1	13
46	How to get superhard MnB ₂ : a first-principles study. Journal of Materials Chemistry, 2012, 22, 17630.	6.7	9