

# Yunxian Liu

## List of Publications by Year in descending order

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34  
papers

1,466  
citations

623574

14  
h-index

395590

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1016  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced metallization of dense (H <sub>2</sub> S) <sub>2</sub> H <sub>2</sub> with high-T <sub>c</sub> superconductivity. <i>Scientific Reports</i> , 2014, 4, 6968.	1.6	802
2	Pressure-induced decomposition of solid hydrogen sulfide. <i>Physical Review B</i> , 2015, 91, .	1.1	255
3	Ultrahigh Thermoelectric Performance Realized in Black Phosphorus System by Favorable Band Engineering through Group VA Doping. <i>Advanced Functional Materials</i> , 2019, 29, 1904346.	7.8	41
4	Pressure-Induced Structures and Properties in Indium Hydrides. <i>Inorganic Chemistry</i> , 2015, 54, 9924-9928.	1.9	34
5	Modulated T carbon-like carbon allotropes: an ab initio study. <i>RSC Advances</i> , 2014, 4, 17364.	1.7	29
6	Structures and Properties of Osmium Hydrides under Pressure from First Principle Calculation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15905-15911.	1.5	29
7	First-principles study on the structural and electronic properties of metallic HfH <sub>2</sub> under pressure. <i>Scientific Reports</i> , 2015, 5, 11381.	1.6	26
8	Stability and properties of the Ru-H system at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1516-1520.	1.3	26
9	High-temperature Superconductivity in compressed Solid Silane. <i>Scientific Reports</i> , 2015, 5, 8845.	1.6	25
10	Predicted Formation of H <sub>3</sub> <sup>+</sup> in Solid Halogen Polyhydrides at High Pressures. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11059-11065.	1.1	19
11	Pressure-driven significant phonon mode softening and robust superconductivity in layered germanium phosphide. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20054-20061.	5.2	17
12	Prediction of stoichiometric PoH <sub>n</sub> compounds: crystal structures and properties. <i>RSC Advances</i> , 2015, 5, 103445-103450.	1.7	15
13	Enhancement of T <sub>c</sub> in the atomic phase of iodine-doped hydrogen at high pressures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32335-32340.	1.3	15
14	Stability and Superconductivity of K-P Compounds under Pressure. <i>Inorganic Chemistry</i> , 2017, 56, 12529-12534.	1.9	15
15	Structural stability and compressive behavior of ZrH <sub>2</sub> under hydrostatic pressure and nonhydrostatic pressure. <i>RSC Advances</i> , 2014, 4, 46780-46786.	1.7	13
16	Ab initio investigation of CaO-ZnO alloys under high pressure. <i>Scientific Reports</i> , 2015, 5, 11003.	1.6	13
17	The crystal structure of IrB <sub>2</sub> : a first-principle calculation. <i>RSC Advances</i> , 2014, 4, 63442-63446.	1.7	10
18	A novel stable hydrogen-rich SnH <sub>8</sub> under high pressure. <i>RSC Advances</i> , 2015, 5, 107637-107641.	1.7	9

#	ARTICLE	IF	CITATIONS
19	The Structure and Properties of Magnesiumâ€Phosphorus Compounds Under Pressure. Chemistry - A European Journal, 2018, 24, 11402-11406.	1.7	9
20	Fabrication of Alkali Metal Boride: Honeycombâ€Like Structured NaB <sub>4</sub> with High Hardness and Excellent Electrical Conductivity. Advanced Functional Materials, 0, , 2110872.	7.8	9
21	Crystal structures and properties of the CH <sub>4</sub> H <sub>2</sub> compound under high pressure. RSC Advances, 2014, 4, 37569.	1.7	7
22	Prediction of a novel robust superconducting state in TaS <sub>2</sub> under high pressure. Physical Chemistry Chemical Physics, 2020, 22, 8827-8833.	1.3	7
23	Emergence of high superconductivity in a layered TaS <sub>3</sub> crystal. Journal of Materials Chemistry C, 2022, 10, 2089-2094.	2.7	7
24	High pressure superconducting phase of Bi <sub>3</sub> : an ab initio study. RSC Advances, 2014, 4, 32068-32074.	1.7	4
25	High-pressure polymorphism as a step towards high density structures of LiAlH <sub>4</sub> . Applied Physics Letters, 2015, 107, 041906.	1.5	4
26	Pressure-induced unexpected $\hat{a}^2$ oxidation states of bromine and superconductivity in magnesium bromide. Physical Chemistry Chemical Physics, 2020, 22, 3066-3072.	1.3	4
27	Predicted stable Li <sub>5</sub> P <sub>2</sub> and Li <sub>4</sub> P at ambient pressure: novel high-performance anodes for lithium-ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 19172-19177.	1.3	4
28	Crystal structures and properties of nitrogen oxides under high pressure. RSC Advances, 2015, 5, 103373-103379.	1.7	3
29	Ab initio study on the stability of N-doped ZnO under high pressure. RSC Advances, 2015, 5, 16774-16779.	1.7	3
30	Structures and properties of binary Mg Bi compounds under pressure. Solid State Communications, 2018, 280, 18-23.	0.9	3
31	Pressure-induced structures and properties in Pâ€S compounds. Solid State Communications, 2019, 293, 6-10.	0.9	3
32	Pressureâ€Induced Stable Binary Compounds of Magnesium and Germanium. Chemistry - A European Journal, 2018, 24, 18757-18761.	1.7	2
33	HPHT synthesis and enhanced TE performance of Te and Sn/Se elements binary-doped CoSb <sub>3</sub> . Functional Materials Letters, 2019, 12, 1850105.	0.7	2
34	Double-dome superconductivity in germanium phosphides. Journal of Materials Chemistry C, 2022, 10, 8617-8624.	2.7	2