

# Yunxian Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33  
papers

1,015  
citations

12  
h-index

31  
g-index

34  
ext. papers

1,212  
ext. citations

4.8  
avg, IF

3.8  
L-index

#	Paper	IF	Citations
33	Emergence of high superconductivity in a layered TaS <sub>3</sub> crystal. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 2089-2094	7.1	1
32	Prediction of a novel robust superconducting state in TaS under high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8827-8833	3.6	4
31	Pressure-induced unexpected -2 oxidation states of bromine and superconductivity in magnesium bromide. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 3066-3072	3.6	3
30	Predicted stable LiP and LiP at ambient pressure: novel high-performance anodes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 19172-19177	3.6	1
29	Pressure-driven significant phonon mode softening and robust superconductivity in layered germanium phosphide. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20054-20061	13	9
28	Pressure-induced structures and properties in P8 compounds. <i>Solid State Communications</i> , <b>2019</b> , 293, 6-10	1.6	0
27	HPHT synthesis and enhanced TE performance of Te and Sn/Se elements binary-doped CoSb <sub>3</sub> . <i>Functional Materials Letters</i> , <b>2019</b> , 12, 1850105	1.2	2
26	Ultrahigh Thermoelectric Performance Realized in Black Phosphorus System by Favorable Band Engineering through Group VA Doping. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904346	15.6	32
25	Structures and properties of binary Mg Bi compounds under pressure. <i>Solid State Communications</i> , <b>2018</b> , 280, 18-23	1.6	3
24	Pressure-Induced Stable Binary Compounds of Magnesium and Germanium. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18757-18761	4.8	1
23	The Structure and Properties of Magnesium-Phosphorus Compounds Under Pressure. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 11402-11406	4.8	5
22	Stability and Superconductivity of K-P Compounds under Pressure. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 12529-12534	12	12
21	Stability and properties of the Ru-H system at high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 1516-20	3.6	20
20	Structures and Properties of Osmium Hydrides under Pressure from First Principle Calculation. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15905-15911	3.8	25
19	First-principles study on the structural and electronic properties of metallic HfH <sub>2</sub> under pressure. <i>Scientific Reports</i> , <b>2015</b> , 5, 11381	4.9	18
18	Pressure-Induced Structures and Properties in Indium Hydrides. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 9924-8	5.1	23
17	Prediction of stoichiometric PoHn compounds: crystal structures and properties. <i>RSC Advances</i> , <b>2015</b> , 5, 103445-103450	3.7	12

16	Pressure-induced decomposition of solid hydrogen sulfide. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	213
15	Ab initio investigation of CaO-ZnO alloys under high pressure. <i>Scientific Reports</i> , <b>2015</b> , 5, 11003	4.9	11
14	High-pressure polymorphism as a step towards high density structures of LiAlH <sub>4</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 107, 041906	3.4	3
13	High-temperature superconductivity in compressed solid silane. <i>Scientific Reports</i> , <b>2015</b> , 5, 8845	4.9	18
12	Enhancement of T <sub>c</sub> in the atomic phase of iodine-doped hydrogen at high pressures. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 32335-40	3.6	13
11	Crystal structures and properties of nitrogen oxides under high pressure. <i>RSC Advances</i> , <b>2015</b> , 5, 103373-103379	3.7	2
10	Predicted Formation of H <sub>3</sub> (+) in Solid Halogen Polyhydrides at High Pressures. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 11059-65	2.8	14
9	A novel stable hydrogen-rich SnH <sub>8</sub> under high pressure. <i>RSC Advances</i> , <b>2015</b> , 5, 107637-107641	3.7	6
8	Ab initio study on the stability of N-doped ZnO under high pressure. <i>RSC Advances</i> , <b>2015</b> , 5, 16774-16779	3.7	2
7	Pressure-induced metallization of dense (H <sub>3</sub> )B <sub>2</sub> with high-T <sub>c</sub> superconductivity. <i>Scientific Reports</i> , <b>2014</b> , 4, 6968	4.9	502
6	Structural stability and compressive behavior of ZrH <sub>2</sub> under hydrostatic pressure and nonhydrostatic pressure. <i>RSC Advances</i> , <b>2014</b> , 4, 46780-46786	3.7	11
5	High pressure superconducting phase of BI <sub>3</sub> : an ab initio study. <i>RSC Advances</i> , <b>2014</b> , 4, 32068-32074	3.7	3
4	Modulated T carbon-like carbon allotropes: an ab initio study. <i>RSC Advances</i> , <b>2014</b> , 4, 17364	3.7	28
3	Crystal structures and properties of the CH <sub>4</sub> H <sub>2</sub> compound under high pressure. <i>RSC Advances</i> , <b>2014</b> , 4, 37569	3.7	6
2	The crystal structure of IrB <sub>2</sub> : a first-principle calculation. <i>RSC Advances</i> , <b>2014</b> , 4, 63442-63446	3.7	10
1	Fabrication of Alkali Metal Boride: Honeycomb-Like Structured NaB <sub>4</sub> with High Hardness and Excellent Electrical Conductivity. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2110872	15.6	2