## Xiaoli Huang

## List of Publications by Citations

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62 1,482 17 37 h-index g-index citations papers 68 1,928 4.48 5.7 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
62	Pressure-induced metallization of dense (HB)HDwith high-Tc superconductivity. <i>Scientific Reports</i> , <b>2014</b> , 4, 6968	4.9	502
61	Pressure-induced decomposition of solid hydrogen sulfide. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	213
60	A Protocol to Fabricate Nanostructured New Phase: B31-Type MnS Synthesized under High Pressure. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10297-303	16.4	55
59	Superconducting praseodymium superhydrides. Science Advances, 2020, 6, eaax6849	14.3	49
58	Nitrogen concentration driving the hardness of rhenium nitrides. Scientific Reports, 2014, 4, 4797	4.9	47
57	Polyhydride CeH with an atomic-like hydrogen clathrate structure. <i>Nature Communications</i> , <b>2019</b> , 10, 3461	17.4	44
56	New Metallic Ordered Phase of Perovskite CsPbI under Pressure. <i>Advanced Science</i> , <b>2019</b> , 6, 1900399	13.6	33
55	Divergent synthesis routes and superconductivity of ternary hydride MgSiH6 at high pressure. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	32
54	High-temperature superconductivity in sulfur hydride evidenced by alternating-current magnetic susceptibility. <i>National Science Review</i> , <b>2019</b> , 6, 713-718	10.8	32
53	Synthesis of molecular metallic barium superhydride: pseudocubic BaH. <i>Nature Communications</i> , <b>2021</b> , 12, 273	17.4	29
52	High-Pressure Synthesis of Magnetic Neodymium Polyhydrides. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2803-2811	16.4	28
51	Pressure-Dependent Light Emission of Charged and Neutral Excitons in Monolayer MoSe. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3556-3563	6.4	28
50	Pressure-Induced Structures and Properties in Indium Hydrides. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 9924-8	5.1	23
49	Thermal equation of state of Molybdenum determined from in situ synchrotron X-ray diffraction with laser-heated diamond anvil cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 19923	4.9	22
48	High-Pressure Formation of Cobalt Polyhydrides: A First-Principle Study. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 181-186	5.1	19
47	High-Temperature Superconducting Phases in Cerium Superhydride with a T_{c} up to 115[K below a Pressure of 1[Megabar. <i>Physical Review Letters</i> , <b>2021</b> , 127, 117001	7.4	19
46	First-principles study on the structural and electronic properties of metallic HfH2 under pressure. <i>Scientific Reports</i> , <b>2015</b> , 5, 11381	4.9	18

45	Hydrogen Bond in Compressed Solid Hydrazine. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3236-3243	3.8	14
44	Predicted Formation of H3(+) in Solid Halogen Polyhydrides at High Pressures. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 11059-65	2.8	14
43	Coupling-Assisted Renormalization of Excitons and Vibrations in Compressed MoSe2WSe2 Heterostructure. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5820-5828	3.8	13
42	Enhancement of T(c) 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
41	Predicted novel metallic metastable phases of polymeric nitrogen at high pressures. <i>New Journal of Physics</i> , <b>2013</b> , 15, 013010	2.9	13
40	Pressure-Induced Diversity of Estacking Motifs and Amorphous Polymerization in Pyrrole. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 12420-12427	3.8	12
39	Superconducting Zirconium Polyhydrides at Moderate Pressures. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 646-651	6.4	12
38	Structural stability and compressive behavior of ZrH2 under hydrostatic pressure and nonhydrostatic pressure. <i>RSC Advances</i> , <b>2014</b> , 4, 46780-46786	3.7	11
37	Novel Strongly Correlated Europium Superhydrides. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 32-4	<b>46</b> .4	11
36	A Novel High-Density Phase and Amorphization of Nitrogen-Rich 1H-Tetrazole (CHN) under High Pressure. <i>Scientific Reports</i> , <b>2017</b> , 7, 39249	4.9	10
35	Unexpected calcium polyhydride CaH: A possible route to dissociation of hydrogen molecules. Journal of Chemical Physics, <b>2019</b> , 150, 044507	3.9	10
34	Experimental verification of the high pressure crystal structures in NH3BH3. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 244507	3.9	10
33	Correlatively Dependent Lattice and Electronic Structural Evolutions in Compressed Monolayer Tungsten Disulfide. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 941-947	6.4	9
32	High pressure Raman spectroscopy investigation on acetonitrile and acetonitrile water mixture. <i>RSC Advances</i> , <b>2015</b> , 5, 84216-84222	3.7	9
31	The hydrogen-bond effect on the high pressure behavior of hydrazinium monochloride. <i>Journal of Raman Spectroscopy</i> , <b>2015</b> , 46, 266-272	2.3	8
30	Hydrogen-bond enhancement triggered structural evolution and band gap engineering of hybrid perovskite (CHCHNH)PbI under high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 1841-1846	3.6	8
29	Broadband Emission Enhancement Induced by Self-Trapped Excited States in One-Dimensional EAPbI3 Perovskite under Pressure. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8984-8991	3.8	8
28	High-pressure spectroscopic study of silver azide. <i>RSC Advances</i> , <b>2016</b> , 6, 82270-82276	3.7	8

27	In situ synchrotron X-ray diffraction with laser-heated diamond anvil cells study of Pt up to 95 GPa and 3150 K. <i>RSC Advances</i> , <b>2015</b> , 5, 14603-14609	3.7	7
26	Structural properties of ammonium iodide under high pressure. <i>RSC Advances</i> , <b>2015</b> , 5, 40336-40340	3.7	7
25	The stability of B6 octahedron in BaB6 under high pressure. <i>RSC Advances</i> , <b>2016</b> , 6, 18077-18081	3.7	7
24	Superconductivity and equation of state of lanthanum at megabar pressures. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	7
23	Pressure-Induced Photoluminescence Adjustment and Lattice Disorder in Monolayer WSe2. <i>ChemNanoMat</i> , <b>2017</b> , 3, 238-244	3.5	6
22	Unravelling decomposition products of phosphine under high pressure. <i>Journal of Raman Spectroscopy</i> , <b>2018</b> , 49, 721-727	2.3	6
21	Crystal structures and properties of the CH4H2 compound under high pressure. <i>RSC Advances</i> , <b>2014</b> , 4, 37569	3.7	6
20	High-pressure Raman study of solid hydrogen up to 300 GPa. <i>Chinese Physics B</i> , <b>2016</b> , 25, 037401	1.2	6
19	Acoustic and elastic properties of silicone oil under high pressure. <i>RSC Advances</i> , <b>2015</b> , 5, 38056-38060	3.7	5
18	Superconducting ScH and LuH at Megabar Pressures. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15330-15335	5.1	5
17	Pressure-Induced Amorphization and Recrystallization of SnI2. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19312-19317	3.8	4
16	Pressure-induced structural transformation of CaC2. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 194506	3.9	4
15	New Phase of Ca(BH4)2 at Near Ambient Conditions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 14272-	14,2876	3
14	High pressure superconducting phase of BI3: an ab initio study. <i>RSC Advances</i> , <b>2014</b> , 4, 32068-32074	3.7	3
13	High-pressure polymorphism as a step towards high density structures of LiAlH4. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 041906	3.4	3
12	Metallization: New Metallic Ordered Phase of Perovskite CsPbI3 under Pressure (Adv. Sci. 14/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970083	13.6	2
11	A New Superconducting 3R-WS Phase at High Pressure. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3321-3327	6.4	2
10	Wrinkle and near-resonance effects on the vibrational and electronic properties in compressed monolayer MoSe. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 11709-11716	3.6	2

## LIST OF PUBLICATIONS

9	Elastic properties of single crystal hydrogen sulfide: A Brillouin scattering study under high pressure-temperature. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 125901	2.5	2	
8	Sr-Doped Superionic Hydrogen Glass: Synthesis and Properties of SrH Advanced Materials, <b>2022</b> , e220	0 <u>94</u> 4	2	
7	Increasing Interlayer Coupling Prevented the Deformation in Compressed Multilayer WSe2. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10261-10266	3.8	1	
6	Pressure-induced structural changes in NH4Br. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 064505	3.9	1	
5	Strong Optical, Electrical, and Raman in-Plane Anisotropy in Corrugated Two-Dimensional Perovskite. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 22630-22642	3.8	1	
4	New Cage-Like Cerium Trihydride Stabilized at Ambient Conditions. <i>CCS Chemistry</i> ,1012-1018	7.2	1	
3	Elastic stability of CO2 phase I under high temperature and pressure. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	1	
2	Pressure-Tuned Quantum Well Configuration in Two-Dimensional PA8Pb5I18 Perovskites for Highly Efficient Yellow Fluorescence. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 10003-10011	6.1	1	
1	Disorder-order structural transition of single crystal hydrogen chloride under high pressure-temperature. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17655-17661	3.6		