

Xiaoli Huang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/462625/xiaoli-huang-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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

#	Paper	IF	Citations
62	Sr-Doped Superionic Hydrogen Glass: Synthesis and Properties of SrH ₂ . <i>Advanced Materials</i> , 2022 , e2200924	2.4	2
61	Strong Optical, Electrical, and Raman in-Plane Anisotropy in Corrugated Two-Dimensional Perovskite. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22630-22642	3.8	1
60	A New Superconducting 3R-WS Phase at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3321-3327	6.4	2
59	Novel Strongly Correlated Europium Superhydrides. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 32-40	6.4	11
58	Synthesis of molecular metallic barium superhydride: pseudocubic BaH ₂ . <i>Nature Communications</i> , 2021 , 12, 273	17.4	29
57	Wrinkle and near-resonance effects on the vibrational and electronic properties in compressed monolayer MoSe ₂ . <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11709-11716	3.6	2
56	Pressure-Tuned Quantum Well Configuration in Two-Dimensional PA8Pb5I18 Perovskites for Highly Efficient Yellow Fluorescence. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10003-10011	6.1	1
55	Superconducting ScH and LuH at Megabar Pressures. <i>Inorganic Chemistry</i> , 2021 , 60, 15330-15335	5.1	5
54	High-Temperature Superconducting Phases in Cerium Superhydride with a T _c up to 115 K below a Pressure of 11 Megabar. <i>Physical Review Letters</i> , 2021 , 127, 117001	7.4	19
53	Superconducting praseodymium superhydrides. <i>Science Advances</i> , 2020 , 6, eaax6849	14.3	49
52	Hydrogen-bond enhancement triggered structural evolution and band gap engineering of hybrid perovskite (CH ₃ CH ₂ NH ₂)PbI ₃ under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1841-1846	3.6	8
51	High-Pressure Synthesis of Magnetic Neodymium Polyhydrides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2803-2811	16.4	28
50	Broadband Emission Enhancement Induced by Self-Trapped Excited States in One-Dimensional EAPbI ₃ Perovskite under Pressure. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8984-8991	3.8	8
49	Superconducting Zirconium Polyhydrides at Moderate Pressures. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 646-651	6.4	12
48	Superconductivity and equation of state of lanthanum at megabar pressures. <i>Physical Review B</i> , 2020 , 102,	3.3	7
47	Unexpected calcium polyhydride CaH ₂ : A possible route to dissociation of hydrogen molecules. <i>Journal of Chemical Physics</i> , 2019 , 150, 044507	3.9	10
46	High-temperature superconductivity in sulfur hydride evidenced by alternating-current magnetic susceptibility. <i>National Science Review</i> , 2019 , 6, 713-718	10.8	32

45	New Metallic Ordered Phase of Perovskite CsPbI ₃ under Pressure. <i>Advanced Science</i> , 2019 , 6, 1900399	13.6	33
44	Polyhydride CeH ₃ with an atomic-like hydrogen clathrate structure. <i>Nature Communications</i> , 2019 , 10, 3461	17.4	44
43	Disorder-order structural transition of single crystal hydrogen chloride under high pressure-temperature. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17655-17661	3.6	
42	Metallization: New Metallic Ordered Phase of Perovskite CsPbI ₃ under Pressure (Adv. Sci. 14/2019). <i>Advanced Science</i> , 2019 , 6, 1970083	13.6	2
41	Coupling-Assisted Renormalization of Excitons and Vibrations in Compressed MoSe ₂ /WSe ₂ Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5820-5828	3.8	13
40	Increasing Interlayer Coupling Prevented the Deformation in Compressed Multilayer WSe ₂ . <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10261-10266	3.8	1
39	Unravelling decomposition products of phosphine under high pressure. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 721-727	2.3	6
38	High-Pressure Formation of Cobalt Polyhydrides: A First-Principle Study. <i>Inorganic Chemistry</i> , 2018 , 57, 181-186	5.1	19
37	New Phase of Ca(BH ₄) ₂ at Near Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14272-14276	12.7	3
36	Elastic properties of single crystal hydrogen sulfide: A Brillouin scattering study under high pressure-temperature. <i>Journal of Applied Physics</i> , 2018 , 124, 125901	2.5	2
35	Elastic stability of CO ₂ phase I under high temperature and pressure. <i>Physical Review B</i> , 2018 , 98,	3.3	1
34	A Novel High-Density Phase and Amorphization of Nitrogen-Rich 1H-Tetrazole (CHN) under High Pressure. <i>Scientific Reports</i> , 2017 , 7, 39249	4.9	10
33	Correlatively Dependent Lattice and Electronic Structural Evolutions in Compressed Monolayer Tungsten Disulfide. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 941-947	6.4	9
32	Pressure-Induced Photoluminescence Adjustment and Lattice Disorder in Monolayer WSe ₂ . <i>ChemNanoMat</i> , 2017 , 3, 238-244	3.5	6
31	Divergent synthesis routes and superconductivity of ternary hydride MgSiH ₆ at high pressure. <i>Physical Review B</i> , 2017 , 96,	3.3	32
30	Pressure-Dependent Light Emission of Charged and Neutral Excitons in Monolayer MoSe ₂ . <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3556-3563	6.4	28
29	High-pressure spectroscopic study of silver azide. <i>RSC Advances</i> , 2016 , 6, 82270-82276	3.7	8
28	Thermal equation of state of Molybdenum determined from in situ synchrotron X-ray diffraction with laser-heated diamond anvil cells. <i>Scientific Reports</i> , 2016 , 6, 19923	4.9	22

27	The stability of B6 octahedron in BaB6 under high pressure. <i>RSC Advances</i> , 2016 , 6, 18077-18081	3.7	7
26	High-pressure Raman study of solid hydrogen up to 300 GPa. <i>Chinese Physics B</i> , 2016 , 25, 037401	1.2	6
25	Pressure-induced structural transformation of CaC2. <i>Journal of Chemical Physics</i> , 2016 , 144, 194506	3.9	4
24	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> , 2015 , 5, 14603-14609	3.7	7
23	A Protocol to Fabricate Nanostructured New Phase: B31-Type MnS Synthesized under High Pressure. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10297-303	16.4	55
22	Pressure-Induced Amorphization and Recrystallization of SnI2. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19312-19317	3.8	4
21	First-principles study on the structural and electronic properties of metallic HfH2 under pressure. <i>Scientific Reports</i> , 2015 , 5, 11381	4.9	18
20	Structural properties of ammonium iodide under high pressure. <i>RSC Advances</i> , 2015 , 5, 40336-40340	3.7	7
19	Acoustic and elastic properties of silicone oil under high pressure. <i>RSC Advances</i> , 2015 , 5, 38056-38060	3.7	5
18	High pressure Raman spectroscopy investigation on acetonitrile and acetonitrile/water mixture. <i>RSC Advances</i> , 2015 , 5, 84216-84222	3.7	9
17	Pressure-Induced Structures and Properties in Indium Hydrides. <i>Inorganic Chemistry</i> , 2015 , 54, 9924-8	5.1	23
16	The hydrogen-bond effect on the high pressure behavior of hydrazinium monochloride. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 266-272	2.3	8
15	Pressure-induced decomposition of solid hydrogen sulfide. <i>Physical Review B</i> , 2015 , 91,	3.3	213
14	High-pressure polymorphism as a step towards high density structures of LiAlH4. <i>Applied Physics Letters</i> , 2015 , 107, 041906	3.4	3
13	Pressure-induced structural changes in NH4Br. <i>Journal of Chemical Physics</i> , 2015 , 143, 064505	3.9	1
12	Enhancement of T(c) in the atomic phase of iodine-doped hydrogen at high pressures. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 32335-40	3.6	13
11	Predicted Formation of H3(+) in Solid Halogen Polyhydrides at High Pressures. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11059-65	2.8	14
10	Pressure-induced metallization of dense (H3)H2O with high-Tc superconductivity. <i>Scientific Reports</i> , 2014 , 4, 6968	4.9	502

9	Nitrogen concentration driving the hardness of rhenium nitrides. <i>Scientific Reports</i> , 2014 , 4, 4797	4.9	47
8	Experimental verification of the high pressure crystal structures in NH ₃ BH ₃ . <i>Journal of Chemical Physics</i> , 2014 , 140, 244507	3.9	10
7	Structural stability and compressive behavior of ZrH ₂ under hydrostatic pressure and nonhydrostatic pressure. <i>RSC Advances</i> , 2014 , 4, 46780-46786	3.7	11
6	High pressure superconducting phase of Bi ₃ : an ab initio study. <i>RSC Advances</i> , 2014 , 4, 32068-32074	3.7	3
5	Crystal structures and properties of the CH ₄ H ₂ compound under high pressure. <i>RSC Advances</i> , 2014 , 4, 37569	3.7	6
4	Hydrogen Bond in Compressed Solid Hydrazine. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3236-3243	3.8	14
3	Pressure-Induced Diversity of π -Stacking Motifs and Amorphous Polymerization in Pyrrole. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12420-12427	3.8	12
2	Predicted novel metallic metastable phases of polymeric nitrogen at high pressures. <i>New Journal of Physics</i> , 2013 , 15, 013010	2.9	13
1	New Cage-Like Cerium Trihydride Stabilized at Ambient Conditions. <i>CCS Chemistry</i> , 1012-1018	7.2	1