Takahiro Ishikawa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2655276/publications.pdf

Version: 2024-02-01

40	771	933447	501196
papers	citations	10 h-index	28 g-index

41	41	41	705
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structure of the superconducting phase of sulfur hydride. Nature Physics, 2016, 12, 835-838.	16.7	392
2	Superconducting H5S2 phase in sulfur-hydrogen system under high-pressure. Scientific Reports, 2016, 6, 23160.	3.3	56
3	Materials informatics based on evolutionary algorithms: Application to search for superconducting hydrogen compounds. Physical Review B, 2019, 100, .	3.2	39
4	Determining the Structure of Phosphorus in PhaseÂIV. Physical Review Letters, 2006, 96, 095502.	7.8	34
5	Theoretical study of the structure of calcium in phases IV and V viaab initiometadynamics simulation. Physical Review B, 2008, 77, .	3.2	33
6	First-Principles Study on Superconductivity of P- and Cl-Doped H₃S. Journal of the Physical Society of Japan, 2018, 87, 124711.	1.6	25
7	High-pressure phases of calcium: Prediction of phase VI and upper-pressure phases from first principles. Physical Review B, 2010, 81, .	3.2	19
8	Stacking-disordered phase of iron in the Earthâ€™s inner core from first principles. Physical Review B, 2011, 83, .	3.2	19
9	Evolutionary construction of a formation-energy convex hull: Practical scheme and application to a carbon-hydrogen binary system. Physical Review B, 2020, 101, .	3.2	16
10	Pressure-induced stacking sequence variations in gold from first principles. Physical Review B, 2013, 88, .	3.2	15
11	Phase with pressure-induced shuttlewise deformation in dense solid atomic hydrogen. Physical Review B, 2014, 90, .	3.2	10
12	Lattice dynamics effects on finite-temperature stability of R1â^’Fe (R = Y, Ce, Nd, Sm, and Dy) alloys from first principles. Journal of Alloys and Compounds, 2021, 874, 159754.	5.5	10
13	Origin of the simple modulated structures and the pressure induced superconductivity. Journal of Physics: Conference Series, 2010, 215, 012107.	0.4	8
14	Review on distorted face-centered cubic phase in yttrium via genetic algorithm. High Pressure Research, 2015, 35, 37-41.	1.2	7
15	Chemical Trend of Superconducting Critical Temperatures in Hole-Doped CuBO₂, CuAlO₂, CuGaO₂, and CuInO₂. Journal of the Physical Society of Japan, 2016, 85, 094711.	1.6	7
16	Charge-density waves, incommensurate modulations and superconductivity in phosphorus and iodine. High Pressure Research, 2008, 28, 459-467.	1.2	6
17	First-principles study on superconductivity of simple cubic, modulated and simple hexagonal phases in phosphorus. High Pressure Research, 2012, 32, 3-10.	1.2	6
18	Phase Stability and Superconductivity of Compressed Argonâ€“Hydrogen Compounds from First-Principles. Journal of the Physical Society of Japan, 2017, 86, 124711.	1.6	6

#	Article	IF	Citations
19	Theoretical Evidences for Enhanced Superconducting Transition Temperature of CaSi₂ in a High-Pressure AlB₂ Phase. Journal of the Physical Society of Japan, 2008, 77, 104712.	1.6	5
20	Review of high pressure phases of calcium by first-principles calculations. Journal of Physics: Conference Series, 2010, 215, 012105.	0.4	5
21	Metallization of solid iodine in phase I: X-ray diffraction measurements, electrical resistance measurements, andab initiocalculations. High Pressure Research, 2013, 33, 186-190.	1.2	5
22	Evolutionary search for cobalt-rich compounds in the yttrium-cobalt-boron system. Physical Review Materials, 2021, 5, .	2.4	5
23	Monoclinic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YFe</mml:mi><mml:mn>12</mml:mn></mml:msub></ phases predicted from first principles. Physical Review Materials, 2020, 4, .	2.4	5
24	Origin of enhanced superconducting transition temperature through structural transformation in CaSi₂. Journal of Physics: Conference Series, 2008, 121, 052010.	0.4	4
25	Band structure and pressure-induced metallic transition in iodine â€“ GW calculation. High Pressure Research, 2014, 34, 215-221.	1.2	4
26	First-Principles Molecular Dynamics Simulation for Calcium under High-Pressure: Thermodynamic Effect on Simple Cubic Structure. Journal of the Physical Society of Japan, 2012, 81, 124601.	1.6	3
27	First-principles study on superconductivity of solid oxygen. High Pressure Research, 2012, 32, 457-463.	1.2	3
28	Potential energy surface trekking: Application to carbon at terapascal pressures. Computational Materials Science, 2014, 92, 36-40.	3.0	3
29	Superconductivity of compressed solid argon from first principles. Physical Review B, 2015, 91, .	3.2	3
30	Beryllium polyhydride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Be</mml:mi><mml:mn>4</mml:mn></mml: mathvariant="normal">H</mml:mi><mml:mn>8</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:msub> synthesized at high pressure and temperature. Physical Review Materials, 2020, 4, .	2.4	3
31	High-Pressure Synthesis of Superconducting Sn₃S₄ Using a Diamond Anvil Cell with a Boron-Doped Diamond Heater. Inorganic Chemistry, 2022, 61, 4476-4483.	4.0	3
32	Crystal structure searching by free energy surface trekking: application to carbon at 1 TPa. Journal of Physics: Conference Series, 2014, 500, 162003.	0.4	2
33	Superconductivity of hydrogen superoxide under high pressure. Superconductor Science and Technology, 2020, 33, 114003.	3.5	2
34	Determining the structure of compressed calcium in phase V by theab-initiomolecular dynamics simulation. Journal of Physics: Conference Series, 2008, 121, 012004.	0.4	1
35	Ab initio study on the high superconducting transition temperature in calcium under high pressure. High Pressure Research, 2009, 29, 204-207.	1.2	1
36	First-principles molecular dynamics study on simple cubic calcium: comparison with simple cubic phosphorus. High Pressure Research, 2012, 32, 11-17.	1.2	1

#	Article	IF	Citations
37	Structural and electronic properties of YH₃at high pressure â€“ band calculation by the GW approximation. High Pressure Research, 2012, 32, 464-470.	1.2	1
38	First-principles study on superconductivity of the goldâ€“indium alloy under high pressure. High Pressure Research, 2013, 33, 152-157.	1.2	1
39	Hydrogen-Storing Salt NaCl(H₂) Synthesized at High Pressure and High Temperature. Journal of Physical Chemistry C, 2019, 123, 25074-25080.	3.1	1
40	Recent Progress on High-Temperature Superconducting Sulfur Hydride. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 251-259.	0.0	0