Hiroshi Yamawaki

List of Publications by Year
in descending order

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80 papers	2,513 citations	201575 27 h-index	197736 49 g-index
81 all docs	81 docs citations	81 times ranked	2621 citing authors

#	Article	IF	Citations
1	Infrared spectra of the Î² and Î³ phases of oleic acid under high pressure. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120290.	2.0	5
2	Dependence of the Viscosity of Bromobenzene on Pressure Up to 400ÂMPa. International Journal of Thermophysics, 2022, 43, .	1.0	0
3	Observation of Dihydrogen Bonds in High-Pressure Phases of Ammonia Borane by X-ray and Neutron Diffraction Measurements. Inorganic Chemistry, 2021, 60, 3065-3073.	1.9	11
4	Raman spectroscopy of solid-phase n-dodecane and methyl oleate under high pressure. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117756.	2.0	3
5	Viscosity measurements of high-pressure liquids via a quartz crystal fundamental resonance. Journal of Applied Physics, 2020, 127, 094701.	1.1	6
6	Pressure Dependence of Viscosity for Methyl Oleate and Methyl Linoleate up to 400ÂMPa. International Journal of Thermophysics, 2020, 41, 1.	1.0	5
7	Reinvestigation of Crystal Structures of Hydrogen Sulfide under High Pressure. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 260-267.	0.1	0
8	Pressure Dependence of Bis(2-ethylhexyl) Sebacate and VG32 Hydraulic Oil Viscosities Using a Quartz Crystal Resonator. International Journal of Thermophysics, 2018, 39, 1.	1.0	5
9	Responses of a Quartz Crystal Resonator Against Viscosity of Liquid up to 700ÂMPa. International Journal of Thermophysics, 2017, 38, 1.	1.0	3
10	Phase Transition of a Structureâ€…II Cubic Clathrate Hydrate to a Tetragonal Form. Angewandte Chemie, 2016, 128, 9433-9437.	1.6	5
11	Phase Transition of a Structureâ€…II Cubic Clathrate Hydrate to a Tetragonal Form. Angewandte Chemie - International Edition, 2016, 55, 9287-9291.	7.2	17
12	Structural Analysis of Some High-Pressure Stable and Metastable Phases in Lithium Borohydride LiBH₄. Journal of Physical Chemistry C, 2015, 119, 3911-3917.	1.5	8
13	Phase boundaries and molar volumes of high-temperature and high-pressure phase V of LiBH4. Journal of Physics and Chemistry of Solids, 2015, 76, 40-44.	1.9	5
14	Structure of Intermediate Phase II of LiNH₂ under High Pressure. Journal of Physical Chemistry B, 2014, 118, 9991-9996.	1.2	5
15	Phase changes in lithium amideâ€“borohydride complexes under high pressure. Solid State Ionics, 2014, 262, 490-494.	1.3	1
16	Thermal Decomposition of Pentaerythritol Tetranitrate under Static High Pressure. Propellants, Explosives, Pyrotechnics, 2013, 38, 394-398.	1.0	4
17	Ca-VII: A Chain Ordered Host-Guest Structure of Calcium above 210ÂGPa. Physical Review Letters, 2013, 110, 235501.	2.9	38
18	Distinct Responses to Mechanical Grinding and Hydrostatic Pressure in Luminescent Chromism of Tetrathiazolylthiophene. Journal of the American Chemical Society, 2013, 135, 10322-10325.	6.6	451

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19	Phase-Contrast X-ray Images of Ice and Water on Carbon Paper for Fuel Cells Measured by Diffraction-Enhanced Imaging Technique. Japanese Journal of Applied Physics, 2013, 52, 048002.	0.8	5
20	Formation of LiBH4 hydrate with dihydrogen bonding. Journal of Alloys and Compounds, 2012, 541, 111-114.	2.8	16
21	Crystal structure of anhydrous 5-aminotetrazole and its high-pressure behavior. CrystEngComm, 2011, 13, 99-102.	1.3	21
22	Intermolecular CHâ‹¯O hydrogen bonds in formyl-substituted diphenylhexatriene, a [2+2] photoreactive organic solid: Crystal structure and IR, NMR spectroscopic evidence. Journal of Molecular Structure, 2011, 1006, 366-374.	1.8	12
23	Nondestructive Imaging of Anomalously Preserved Methane Clathrate Hydrate by Phase Contrast X-ray Imaging. Journal of Physical Chemistry C, 2011, 115, 16193-16199.	1.5	82
24	High-Pressure Transformations and Ionic Conductivity in Low-Z Complex Hydride LiBH4. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2011, 21, 213-220.	0.1	7
25	Changes in structure and proton conductivity at IIâ€“III phase transition of Rb3H(SO4)2. Solid State Ionics, 2010, 181, 567-571.	1.3	4
26	Single composite crystal structure analysis of incommensurate spin-ladder compound Sr2.5Ca11.5Cu24O41. Physica C: Superconductivity and Its Applications, 2010, 470, S219-S220.	0.6	0
27	Vibrational and structural study in phase I of Rb3H(SO4)2. Physica B: Condensed Matter, 2010, 405, 291-295.	1.3	6
28	Characterization of the Clathrate Hydrate Formed with Methane and Propan-1-ol. Industrial & Engineering Chemistry Research, 2009, 48, 9335-9337.	1.8	21
29	Binary Ethanolâ^'Methane Clathrate Hydrate Formation in the System CH‹sub›4‹/sub›-C‹sub›2‹/sub›H‹sub›5‹/sub›OH-H‹sub›2‹/sub›O: Confirmation of Structure II Hydrate Formation. Journal of Physical Chemistry C, 2009, 113, 12598-12601.	1.5	51
30	Infrared study of protonâ€“deuteron mutual diffusion in a CsHSO4/CsDSO4 solid under high pressure. Physica B: Condensed Matter, 2008, 403, 2643-2648.	1.3	1
31	Vibrational spectra ofCsHSO4at high pressure and high temperature. Physical Review B, 2007, 75, .	1.1	6
32	Incommensurate Structure of Phosphorus Phase IV. Physical Review Letters, 2007, 98, .	2.9	51
33	Hexaaquazinc(II) dipicrate trihydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, m423-m426.	0.4	2
34	O8Cluster Structure of the Epsilon Phase of Solid Oxygen. Physical Review Letters, 2006, 97, 085503.	2.9	115
35	Crystal Structure of the High-Pressure Phase of Hexahydro-1,3,5-trinitro-1,3,5-triazine (Î³-RDX). Journal of Physical Chemistry B, 2006, 110, 23655-23659.	1.2	36
36	Infrared study on crystalline and amorphous phases of 2-propyn-1-ol under high pressure. Physica B: Condensed Matter, 2005, 369, 44-50.	1.3	1

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37	Incommensurate composite crystal structure of scandium-II. Physical Review B, 2005, 72, .	1.1	57
38	Spiral chain structure of high pressureseleniumâˆ’IIâ€²andsulfurâˆ’IIfrom powder x-ray diffraction. Physical Review B, 2004, 70, .	1.1	42
39	Molecular dissociation and two low-temperature high-pressure phases ofH2S. Physical Review B, 2004, 69, .	1.1	40
40	Powder X-ray diffraction study of the volume change of ice VIII under high pressure. Physica B: Condensed Matter, 2004, 344, 260-264.	1.3	6
41	Chemical Reactions and Other Behaviors of High Energetic Materials under Static Ultrahigh Pressures. Materials Science Forum, 2004, 465-466, 189-194.	0.3	5
42	Hexaaquairon(II) dipicrate dihydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, m319-m321.	0.4	6
43	Infrared observation of the phase transitions of ice at low temperatures and pressures up to 50 GPa and the metastability of low-temperature ice VII. Physical Review B, 2003, 68, .	1.1	22
44	Infrared investigation on ice VIII and the phase diagram of dense ices. Physical Review B, 2003, 68, .	1.1	55
45	High-pressure spectroscopic measurement on diffusion with a diamond-anvil cell. Review of Scientific Instruments, 2003, 74, 2472-2476.	0.6	3
46	Axial ratio of Zn at high pressure and low temperature. Physical Review B, 2002, 65, .	1.1	23
47	High-Pressure X-ray Studies of Zn at Room and Low Temperatures with a He-Pressure Medium. High Pressure Research, 2002, 22, 337-341.	0.4	8
48	High-pressure powder x-ray diffraction experiments on Zn at low temperature. Journal of Physics Condensed Matter, 2002, 14, 10563-10568.	0.7	9
49	Protonic Diffusion in High-Pressure Ice VII. Science, 2002, 295, 1264-1266.	6.0	47
50	Optical properties of semiconducting and metallic single wall carbon nanotubes: effects of doping and high pressure. Synthetic Metals, 2001, 116, 405-409.	2.1	42
51	Pressure dependence of the optical absorption spectra of single-walled carbon nanotube films. Physical Review B, 2000, 62, 1643-1646.	1.1	71
52	Infrared spectroscopic study ofH2Oâˆ’D2Omixed ice up to 100 GPa. Physical Review B, 2000, 62, 2976-2979.	1.1	18
53	Raman study of phase transition and hydrogen bond symmetrization in solid DCl at high pressure. Physical Review B, 2000, 61, 119-124.	1.1	25
54	Molecular Dissociation in Deuterium Sulfide under High Pressure:Â Infrared and Raman Study. Journal of Physical Chemistry A, 2000, 104, 8838-8842.	1.1	16

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55	Raman and infrared study of phase transitions in solid HBr under pressure. Physical Review B, 1999, 59, 11244-11250.	1.1	39
56	Infrared absorption study of Fermi resonance and hydrogen-bond symmetrization of ice up to 141 GPa. Physical Review B, 1999, 60, 12644-12650.	1.1	68
57	Hydrogen-bond symmetrization and molecular dissociation in hydrogen halids. Physica B: Condensed Matter, 1999, 265, 83-86.	1.3	27
58	High Pressure Solid State Polymerization. Springer Series in Materials Science, 1999, , 33-40.	0.4	0
59	Direct transformation of graphite to cubic diamond observed in a laser-heated diamond anvil cell. Applied Physics Letters, 1998, 72, 1843-1845.	1.5	31
60	Structures ofH2S:â€,PhasesIâ€²and IV under high pressure. Physical Review B, 1998, 57, 2651-2654.	1.1	42
61	High-pressure phase transitions of solidH2S probed by Fourier-transform infrared spectroscopy. Physical Review B, 1997, 55, 5538-5541.	1.1	20
62	Pressure-Induced Molecular Dissociation and Metallization in Hydrogen-BondedH2SSolid. Physical Review Letters, 1997, 79, 1082-1085.	2.9	71
63	Mutual incommensurability and interlayer interaction in (MX)xTX2-type ternary chalcogenides with layered composite crystal structure. Physica B: Condensed Matter, 1997, 237-238, 177-178.	1.3	2
64	Formation of large carbon cluster ions at graphite (HOPG) surfaces by laser irradiation. Applied Surface Science, 1996, 96-98, 267-271.	3.1	6
65	Infrared absorption study of the hydrogen-bond symmetrization in ice to 110 GPa. Physical Review B, 1996, 54, 15673-15677.	1.1	173
66	Reversible phase transition between the metastable phases of tetracyanoethylene under high pressure. Physical Review B, 1996, 53, 11403-11407.	1.1	13
67	Observation of Fano Interference in High-Pressure Ice VII. Physical Review Letters, 1996, 76, 784-786.	2.9	57
68	FT-IR Study of the Solid State Polymerization of Acetylene under Pressure. The Journal of Physical Chemistry, 1996, 100, 9943-9947.	2.9	69
69	Intensity analysis for high-pressure powder diffraction using diamond anvil cells. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C545-C545.	0.3	0
70	X-ray diffraction study of pressure-induced polymerization in simple molecules with triple bonds. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C532-C532.	0.3	0
71	High-Pressure FT-IR Spectra of Liquid and CrystallineCH2F2up to 13 GPa. Journal of the Physical Society of Japan, 1995, 64, 1038-1039.	0.7	2
72	Pressure-Tuned Fermi Resonance in Ice VII. Science, 1995, 268, 1322-1324.	6.0	66

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73	Infrared absorption spectra of the high-pressure phases of cristobalite and their coordination numbers of silicon atoms. Solid State Communications, 1994, 89, 945-948.	0.9	20
74	Crystal Structure of the High-Pressure Phase of Solid CO2. Science, 1994, 263, 356-358.	6.0	112
75	Infrared study of vibrational property and polymerization of fullerene C60 and C70 under pressure. The Journal of Physical Chemistry, 1993, 97, 11161-11163.	2.9	108
76	Phase study of solidCO2to 20 GPa by infrared-absorption spectroscopy. Physical Review B, 1993, 48, 9231-9234.	1.1	28
77	Infrared study of phase transition and chemical reaction in tetracyanoethylene under high pressure. Chemical Physics Letters, 1992, 198, 183-187.	1.2	16
78	Performance of the discrete electrode railgun. IEEE Transactions on Magnetics, 1991, 27, 611-616.	1.2	2
79	High pressure FT-IR study of solid carbon molecule (C60). The Journal of Physical Chemistry, 1991, 95, 9037-9039.	2.9	26
80	High-pressure Raman study of a polar molecule, acetonitrile. Chemical Physics Letters, 1990, 169, 77-80.	1.2	11