

Hiroshi Fujihisa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Distinct Responses to Mechanical Grinding and Hydrostatic Pressure in Luminescent Chromism of Tetrathiazolylthiophene. <i>Journal of the American Chemical Society</i> , 2013, 135, 10322-10325.	6.6	451
2	Superconductivity in Novel BiS_2 -Based Layered Superconductor $\text{LaO}_{1-x}\text{F}_x\text{BiS}_2$. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 114725. http://www.w3.org/1998/Math/MathML	0.7	397
3	BiS_2 -based layered superconductor $\text{Bi}_{1-x}\text{O}_x\text{S}_2$. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 114725. http://www.w3.org/1998/Math/MathML	1.1	373
4	New Member of BiS_2 -Based Superconductor $\text{NdO}_{1-x}\text{F}_x\text{BiS}_2$. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 033708.	0.7	244
5	New-Structure-Type Fe-Based Superconductors: $\text{Ca}_x\text{Fe}_4\text{As}_4$ ($x = 1, 2$). <i>Journal of the Physical Society of Japan</i> , 2016, 85, 064710.	6.6	228
6	Application of an imaging plate to high-pressure x-ray study with a diamond anvil cell (invited). <i>Review of Scientific Instruments</i> , 1992, 63, 967-973.	0.6	181
7	Infrared absorption study of the hydrogen-bond symmetrization in ice to 110 GPa. <i>Physical Review B</i> , 1996, 54, 15673-15677.	1.1	173
8	Modulated structure of solid iodine during its molecular dissociation under high pressure. <i>Nature</i> , 2003, 423, 971-974.	13.7	153
9	O ₈ Cluster Structure of the Epsilon Phase of Solid Oxygen. <i>Physical Review Letters</i> , 2006, 97, 085503.	2.9	115
10	Pressure-Induced Enhancement of Superconductivity and Structural Transition in BiS_2 -Layered $\text{LaO}_{1-x}\text{F}_x\text{BiS}_2$. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 063704.	0.7	111
11	A New Layered Iron Arsenide Superconductor: $(\text{Ca},\text{Pr})\text{FeAs}_2$. <i>Journal of the American Chemical Society</i> , 2014, 136, 846-849.	6.6	105
12	High-pressure structures of methane hydrate observed up to 8 GPa at room temperature. <i>Journal of Chemical Physics</i> , 2001, 115, 7066-7070.	1.2	103
13	Evidence for molecular dissociation in bromine near 80 GPa. <i>Physical Review Letters</i> , 1989, 63, 536-539.	2.9	97
14	Methane Hydrate Behavior under High Pressure. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1429-1433.	1.2	82
15	Pressure-Induced Molecular Dissociation and Metallization in Hydrogen-Bonded H_2S Solid. <i>Physical Review Letters</i> , 1997, 79, 1082-1085.	2.9	71
16	Structural aspects of dense solid halogens under high pressure studied by x-ray diffraction. Molecular dissociation and metallization. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 1439-1444.	1.9	70
17	Infrared absorption study of Fermi resonance and hydrogen-bond symmetrization of ice up to 141 GPa. <i>Physical Review B</i> , 1999, 60, 12644-12650.	1.1	68
18	Superconductivity in Fe-Based Compound $\text{EuAFe}_4\text{As}_4$ ($A = \text{Rb}$ and Cs). <i>Journal of the Physical Society of Japan</i> , 2016, 85, 064710.	0.7	68

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19	“Devil’s Staircase” Type Phase Transition in NaV ₂ O ₅ under High Pressure. <i>Physical Review Letters</i> , 2001, 87, 086402.	2.9	57
20	Incommensurate composite crystal structure of scandium-II. <i>Physical Review B</i> , 2005, 72, .	1.1	57
21	New Helical Chain Structure for Scandium at 240 GPa. <i>Physical Review Letters</i> , 2005, 94, 195503.	2.9	56
22	Infrared investigation on ice VIII and the phase diagram of dense ices. <i>Physical Review B</i> , 2003, 68, .	1.1	55
23	Cs(VI): A new high-pressure polymorph of cesium above 72 GPa. <i>Physical Review Letters</i> , 1991, 66, 2014-2017.	2.9	51
24	Stability and the equation of state of $\hat{\Gamma}_2$ -manganese under ultrahigh pressure. <i>Physical Review B</i> , 1995, 52, 13257-13260.	1.1	51
25	Incommensurate Structure of Phosphorus Phase IV. <i>Physical Review Letters</i> , 2007, 98, .	2.9	51
26	Protonic Diffusion in High-Pressure Ice VII. <i>Science</i> , 2002, 295, 1264-1266.	6.0	47
27	Crystal Structures of Calcium IV and V under High Pressure. <i>Physical Review Letters</i> , 2008, 101, 095503.	2.9	47
28	Crystal structure of the distorted FCC high-pressure phase of praseodymium. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L369-L374.	0.7	46
29	Equation of state of cobalt up to 79 GPa. <i>Physical Review B</i> , 1996, 54, 5-7.	1.1	42
30	Structures of H ₂ S: $\hat{\Gamma}_2$ and IV under high pressure. <i>Physical Review B</i> , 1998, 57, 2651-2654.	1.1	42
31	Spiral chain structure of high pressure selenium and sulfur from powder x-ray diffraction. <i>Physical Review B</i> , 2004, 70, .	1.1	42
32	High-pressure structural phase transition in indium. <i>Physical Review B</i> , 1993, 47, 8465-8470.	1.1	40
33	Molecular dissociation and two low-temperature high-pressure phases of H ₂ S. <i>Physical Review B</i> , 2004, 69, .	1.1	40
34	Raman and infrared study of phase transitions in solid HBr under pressure. <i>Physical Review B</i> , 1999, 59, 11244-11250.	1.1	39
35	Ca-VI: A high-pressure phase of calcium above 158 GPa. <i>Physical Review B</i> , 2010, 81, .	1.1	39
36	Methane Clathrate Hydrates Formed within Hydrophilic and Hydrophobic Media: Kinetics of Dissociation and Distortion of Host Structure. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7081-7085.	1.5	39

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55	Crystal Structure of the High-Pressure $\hat{\Gamma}^3$ Phase of Mercury: A Novel Monoclinic Distortion of the Close-Packed Structure. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 023601.	0.7	16
56	Formation of LiBH ₄ hydrate with dihydrogen bonding. <i>Journal of Alloys and Compounds</i> , 2012, 541, 111-114.	2.8	16
57	Emergent phases of nodeless and nodal superconductivity separated by antiferromagnetic order in iron-based superconductor (Ca ₄ Al ₂ O ₆)Fe ₂ (As _{1-x} P _x) ₂ : ⁷⁵ As- and ³¹ P-NMR studies. <i>Physical Review B</i> , 2013, 87, .	1.1	16
58	New Intermetallic Ternary Phosphide Chalcogenide $\text{A}_2\text{P}_2\text{As}_2\text{X}_2$ (A = Zr, Hf; X = S, Tl) <i>Journal of Solid State Chemistry</i> , 2016, 247, 1-6.	0.7	16
59	Mg-doping experiment and electrical transport measurement of boron nanobelts. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2799-2804.	1.4	15
60	Bcc-fcc structure transition of Te. <i>Journal of Physics: Conference Series</i> , 2014, 500, 192018.	0.3	15
61	Superconductivity in layered ZrP_2Se_2 with PbFCl-type structure. <i>Superconductor Science and Technology</i> , 2016, 29, 055004.	1.8	15
62	Synthesis and the physical properties of layered copper oxytellurides $\text{Sr}_2\text{TMCu}_2\text{Te}_2\text{O}_2$ (TM = Mn, Co, Zn). <i>Journal of Materials Chemistry C</i> , 2018, 6, 12260-12266.	2.7	15
63	Crystal Structure and Superconductivity of Ba_2Ge_7 and $\text{Ba}_3\text{Ir}_4\text{Ge}_{16}$ with Two-Dimensional Ba-Ge Networks. <i>Journal of the American Chemical Society</i> , 2014, 136, 5245-5248.	6.6	14
64	Introduction to DAC Techniques. <i>High Pressure X-ray Powder Diffraction Experiments and Intensity Analyses.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1998, 8, 4-9.	0.1	13
65	Structural change of iodanyl under high pressure. <i>Synthetic Metals</i> , 1999, 103, 1901-1902.	2.1	13
66	Structural phase transitions in iodine under high pressure. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004, 219, 749-754.	0.4	13
67	An X-ray Powder Pattern Analysis Program for Imaging Plate.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1999, 9, 65-70.	0.1	13
68	Pressure dependence of the electron density in solid iodine by the maximum-entropy method. <i>High Pressure Research</i> , 1996, 14, 335-340.	0.4	12
69	Phase transition in a superprotonic conductor $\text{Cs}_2(\text{HSO}_4)(\text{H}_2\text{PO}_4)$ induced by water vapor. <i>Solid State Ionics</i> , 2006, 177, 1275-1279.	1.3	11
70	Observation of Dihydrogen Bonds in High-Pressure Phases of Ammonia Borane by X-ray and Neutron Diffraction Measurements. <i>Inorganic Chemistry</i> , 2021, 60, 3065-3073.	1.9	11
71	Superconductivity induced by Mg deficiency in noncentrosymmetric phosphide Rh_2P_3 . <i>Physical Review Materials</i> , 2019, 3, .	0.9	11
72	Pressure dependence of the lattice constant of diamond: Isotopic effects. <i>JETP Letters</i> , 1996, 63, 83-88.	0.4	10

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73	Structural study on pressure-induced metallization of C6I6. <i>Synthetic Metals</i> , 2001, 120, 767-768.	2.1	10
74	Recent Progress in the Powder X-Ray Diffraction Image Analysis Program PIP. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2005, 15, 29-35.	0.1	10
75	Collapse of CuO Double Chains and Suppression of Superconductivity in High-Pressure Phase of YBa ₂ Cu ₄ O ₈ . <i>Journal of the Physical Society of Japan</i> , 2014, 83, 093601.	0.7	10
76	Structural Phase Transitions and Superconductivity Induced in Antiperovskite Phosphide CaPd ₃ P. <i>Inorganic Chemistry</i> , 2020, 59, 12397-12403.	1.9	10
77	Structural study of hexaiodobenzene up to 9.7 GPa. <i>Physical Review B</i> , 2000, 62, 8759-8765.	1.1	9
78	High-pressure powder x-ray diffraction experiments on Zn at low temperature. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10563-10568.	0.7	9
79	Coexistence of a metastable double hcp phase in bcc \leftrightarrow fcc structure transition of Te under high pressure. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 025601.	0.8	9
80	Superconducting state in (Eu _{1-x} Cax)RbFe ₄ As ₄ with 1144-type Structure. <i>Journal of Physics: Conference Series</i> , 2018, 969, 012027.	0.3	9
81	High-Pressure X-ray Studies of Zn at Room and Low Temperatures with a He-Pressure Medium. <i>High Pressure Research</i> , 2002, 22, 337-341.	0.4	8
82	Structural Analysis of Some High-Pressure Stable and Metastable Phases in Lithium Borohydride LiBH ₄ . <i>Journal of Physical Chemistry C</i> , 2015, 119, 3911-3917.	1.5	8
83	Synthesis and Superconductivity of a Strontium Digermanide SrGe ₂ with ThSi ₂ Structure. <i>Inorganic Chemistry</i> , 2017, 56, 8590-8595.	1.9	8
84	Shock and Static Compression of Nitrobenzene. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4875-4880.	0.8	7
85	Using X-ray diffraction to study thermal phase transitions in Cs ₅ H ₃ (SO ₄) ₄ ·xH ₂ O. <i>Solid State Ionics</i> , 2007, 178, 1262-1267.	1.3	7
86	Phase Transition Analysis of 5-Aminotetrazole from Room Temperature to the Melting Point. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12572-12576.	1.2	7
87	Na-Au intermetallic compounds formed under high pressure at room temperature. <i>Physical Review B</i> , 2011, 84, .	1.1	7
88	High-Pressure Transformations and Ionic Conductivity in Low-Z Complex Hydride LiBH ₄ . <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2011, 21, 213-220.	0.1	7
89	Antiperovskite Superconductor LaPd ₃ P with Noncentrosymmetric Cubic Structure. <i>Inorganic Chemistry</i> , 2021, 60, 18017-18023.	1.9	7
90	Powder X-ray diffraction study of the volume change of ice VIII under high pressure. <i>Physica B: Condensed Matter</i> , 2004, 344, 260-264.	1.3	6

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91	Vibrational spectra of CsHSO ₄ at high pressure and high temperature. <i>Physical Review B</i> , 2007, 75, .	1.1	6
92	Vibrational and structural study in phase I of Rb ₃ H(SO ₄) ₂ . <i>Physica B: Condensed Matter</i> , 2010, 405, 291-295.	1.3	6
93	High-pressure phase diagram of O ₂ and N ₂ binary system: formation of kagome-lattice of O ₂ . <i>Journal of Physics: Conference Series</i> , 2014, 500, 182001.	0.3	6
94	High-pressure structural study of solid mercury up to 200 GPa. <i>Materials Research Express</i> , 2015, 2, 016502.	0.8	6
95	Superconductivity of centrosymmetric and non-centrosymmetric phases in antiperovskite (Ca,Sr)Pd ₃ P. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160733.	2.8	6
96	Rietveld analysis of high-pressure phase of praseodymium. <i>AIP Conference Proceedings</i> , 1994, , .	0.3	5
97	Incommensurately Modulated Phase of Iodine Under High Pressure. <i>Ferroelectrics</i> , 2004, 305, 103-106.	0.3	5
98	Phase-Contrast X-ray Images of Ice and Water on Carbon Paper for Fuel Cells Measured by Diffraction-Enhanced Imaging Technique. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 048002.	0.8	5
99	Structure of Intermediate Phase II of LiNH ₂ under High Pressure. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9991-9996.	1.2	5
100	Phase boundaries and molar volumes of high-temperature and high-pressure phase V of LiBH ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2015, 76, 40-44.	1.9	5
101	Phase Transition of a Structure II Cubic Clathrate Hydrate to a Tetragonal Form. <i>Angewandte Chemie</i> , 2016, 128, 9433-9437.	1.6	5
102	Calcium-free double-layered cuprate superconductors with critical temperature above 100 K. <i>Communications Materials</i> , 2021, 2, .	2.9	5
103	Infrared spectra of the \hat{I}^2 and \hat{I}^3 phases of oleic acid under high pressure. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120290.	2.0	5
104	Changes in structure and proton conductivity at II \leftrightarrow III phase transition of Rb ₃ H(SO ₄) ₂ . <i>Solid State Ionics</i> , 2010, 181, 567-571.	1.3	4
105	Thermal Decomposition of Pentaerythritol Tetranitrate under Static High Pressure. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 394-398.	1.0	4
106	Fe-Based Superconductors of (Ln _{0.5} Na _{0.5+x})Fe ₂ As ₂ (Ln = Ce, Pr). <i>Inorganic Chemistry</i> , 2018, 57, 9223-9229.	1.9	4
107	Superconductivity in a Scandium Borocarbide with a Layered Crystal Structure. <i>Inorganic Chemistry</i> , 2019, 58, 15629-15636.	1.9	4
108	Two intermediate incommensurate phases in the molecular dissociation process of solid iodine under high pressure. <i>Physical Review Research</i> , 2021, 3, .	1.3	4

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109	High-pressure structures of methane hydrate. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 11443-11446.	0.7	3
110	High-pressure spectroscopic measurement on diffusion with a diamond-anvil cell. <i>Review of Scientific Instruments</i> , 2003, 74, 2472-2476.	0.6	3
111	Phase stability and magnetic behavior of hexagonal phase of N_2O_2 system with kagome lattice under high pressure and low temperature. <i>Physical Review B</i> , 2016, 94, .		
112	Superconductivity in a 122-type Fe-based compound (La,Na,K)Fe ₂ As ₂ . <i>Scientific Reports</i> , 2018, 8, 16827.	1.6	3
113	Beryllium polyhydride Be_4H_8 synthesized at high pressure and temperature. <i>Physical Review Materials</i> , 2020, 4, .		
114	Pressure-induced phase transition in C ₆ O ₂ I ₄ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10415-10418.	0.7	2
115	Structure analysis of mutually incommensurate composite crystal (Ca _{0.5} Y _{0.5}) _{0.80} CuO ₂ . <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 1226-1229.	2.8	2
116	Hexaquaquazinc(II) dipicrate trihydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007, 63, m423-m426.	0.4	2
117	Crystal Structure of High-Pressure Phases V and VI of Potassium Dihydrogen Phosphate. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 064706.	0.7	2
118	Mixed-valence state and structure changes of EuH ($x\hat{\epsilon}^- = \hat{\epsilon}^-2$ and $2\hat{\epsilon}^- < \hat{\epsilon}^- x\hat{\epsilon}^- \hat{\epsilon}^3$) under high-pressure H ₂ atmosphere. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158637.	2.8	2
119	Comparative Study on Pressure-Induced Structural Changes between C ₆ O ₂ I ₄ and C ₆ I ₆ . <i>High Pressure Research</i> , 2002, 22, 415-419.	0.4	1
120	Proton Diffusion in High Pressure Ice. <i>High Pressure Research</i> , 2002, 22, 9-11.	0.4	1
121	Infrared study on crystalline and amorphous phases of 2-propyn-1-ol under high pressure. <i>Physica B: Condensed Matter</i> , 2005, 369, 44-50.	1.3	1
122	The structural representation and properties of mutually incommensurate composite crystal (BiS) _x TS ₂ (T = Ti, V, Nb and Ta). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 2852-2855.	0.8	1
123	Infrared study of proton-deuteron mutual diffusion in a CsHSO ₄ /CsDSO ₄ solid under high pressure. <i>Physica B: Condensed Matter</i> , 2008, 403, 2643-2648.	1.3	1
124	Phase changes in lithium amide-borohydride complexes under high pressure. <i>Solid State Ionics</i> , 2014, 262, 490-494.	1.3	1
125	Relation between O ₈ cluster shape and vibrational spectra in the $\hat{\mu}$ -phase of solid oxygen. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 095502.	0.8	1
126	Experimental and Computational Determination of Optimal Boron Content in Layered Superconductor Sc ₂₀ C ₈ B _x C ₂₀ . <i>Inorganic Chemistry</i> , 2020, 59, 14290-14295.	1.9	1

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127	Posttreatment Effects on the Crystal Structure and Superconductivity of Ca-Free Double-Layered Cuprate $\text{Sr}_{2-x}\text{SrCu}_2\text{O}_{4+y}\text{F}_{2x}$. Chemistry of Materials, 2021, 33, 9690-9697.	3.2	1
128	Single composite crystal structure analysis of incommensurate spin-ladder compound $\text{Sr}_{2.5}\text{Ca}_{11.5}\text{Cu}_{24}\text{O}_{41}$. Physica C: Superconductivity and Its Applications, 2010, 470, S219-S220.	0.6	0
129	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
130	Synthesis PbFCl-Type Mixed Anion PAX ($\text{A}=\text{Hf}$, $\text{X}=\text{S}$, Se) Superconductors Related with Topological Materials by High-Pressure Technique. Materials Science Forum, 0, 1016, 708-714.	0.3	0
131	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
132	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
133	Solving Crystal Structures Under High Pressure by Powder X-Ray Diffraction Experiments. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 123-130.	0.1	0