

Hiroshi Fujihisa

List of Publications by Year in Descending Order

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

130
papers

4,106
citations

34
h-index

62
g-index

135
ext. papers

4,486
ext. citations

4.6
avg, IF

4.86
L-index

#	Paper	IF	Citations
130	Infrared spectra of the β and β' phases of oleic acid under high pressure. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 265, 120290	4.4	
129	Antiperovskite Superconductor LaPdP with Noncentrosymmetric Cubic Structure. <i>Inorganic Chemistry</i> , 2021 , 60, 18017-18023	5.1	1
128	Mixed-valence state and structure changes of EuH ($x = 2$ and 2.5). <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158637	5.7	0
127	Calcium-free double-layered cuprate superconductors with critical temperature above 100 K. <i>Communications Materials</i> , 2021 , 2,	6	1
126	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	5.1	4
125	Superconductivity of centrosymmetric and non-centrosymmetric phases in antiperovskite (Ca,Sr)Pd ₃ P. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160733	5.7	2
124	Posttreatment Effects on the Crystal Structure and Superconductivity of Ca-Free Double-Layered Cuprate Sr ₂ SrCu ₂ O _{4+y} F _{2y} . <i>Chemistry of Materials</i> , 2021 , 33, 9690-9697	9.6	
123	Beryllium polyhydride Be ₄ H ₈ (H ₂) ₂ synthesized at high pressure and temperature. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
122	Experimental and Computational Determination of Optimal Boron Content in Layered Superconductor ScCBC. <i>Inorganic Chemistry</i> , 2020 , 59, 14290-14295	5.1	0
121	Structural Phase Transitions and Superconductivity Induced in Antiperovskite Phosphide CaPdP. <i>Inorganic Chemistry</i> , 2020 , 59, 12397-12403	5.1	5
120	Relation between O ₈ cluster shape and vibrational spectra in the β phase of solid oxygen. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 095502	1.4	1
119	Superconductivity in a Scandium Borocarbide with a Layered Crystal Structure. <i>Inorganic Chemistry</i> , 2019 , 58, 15629-15636	5.1	3
118	Superconductivity induced by Mg deficiency in noncentrosymmetric phosphide Mg ₂ Rh ₃ P. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
117	Superconductivity in Uncollapsed Tetragonal LaFeAs. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1018-1023	6.4	8
116	Superconductivity in a New 1144-Type Family of (La,Na)AFeAs (A = Rb or Cs). <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 868-873	6.4	13
115	Superconductivity on Hole-Doping Side of (LaNa)FeAs. <i>Journal of the American Chemical Society</i> , 2018 , 140, 369-374	16.4	14
114	Fe-Based Superconductors of (LnNa)FeAs (Ln = Ce, Pr). <i>Inorganic Chemistry</i> , 2018 , 57, 9223-9229	5.1	3

113	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	7
112	Solving Crystal Structures Under High Pressure by Powder X-Ray Diffraction Experiments. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2018 , 28, 123-130	0	
111	Synthesis and the physical properties of layered copper oxytellurides Sr ₂ TMCu ₂ Te ₂ O ₂ (TM = Mn, Co, Zn). <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12260-12266	7.1	10
110	Reinvestigation of Crystal Structures of Hydrogen Sulfide under High Pressure. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2018 , 28, 260-267	0	
109	Superconductivity in a 122-type Fe-based compound (La,Na,K)FeAs. <i>Scientific Reports</i> , 2018 , 8, 16827	4.9	0
108	Coexistence of a metastable double hcp phase in bccfcc structure transition of Te under high pressure. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 025601	1.4	5
107	Synthesis and Superconductivity of a Strontium Digermanide SrGe with ThSi Structure. <i>Inorganic Chemistry</i> , 2017 , 56, 8590-8595	5.1	5
106	Phase stability and magnetic behavior of hexagonal phase of N ₂ O ₂ system with kagome lattice under high pressure and low temperature. <i>Physical Review B</i> , 2016 , 94,	3.3	3
105	Superconductivity in layered ZrP ₂ Sex with PbFCl-type structure. <i>Superconductor Science and Technology</i> , 2016 , 29, 055004	3.1	10
104	New-Structure-Type Fe-Based Superconductors: CaAF _e 4As ₄ (A = K, Rb, Cs) and SrAF _e 4As ₄ (A = Rb, Cs). <i>Journal of the American Chemical Society</i> , 2016 , 138, 3410-5	16.4	169
103	Phase Transition of a Structure II Cubic Clathrate Hydrate to a Tetragonal Form. <i>Angewandte Chemie</i> , 2016 , 128, 9433-9437	3.6	5
102	Superconductivity in Fe-Based Compound EuAF _e 4As ₄ (A = Rb and Cs). <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 064710	1.5	53
101	Phase Transition of a Structure II Cubic Clathrate Hydrate to a Tetragonal Form. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9287-91	16.4	13
100	Synthesis, structure, and phase diagram of (Sr _{1-x} Nax)Fe ₂ As ₂ superconductors. <i>Superconductor Science and Technology</i> , 2015 , 28, 062001	3.1	16
99	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	3.9	5
98	High-pressure structural study of solid mercury up to 200 GPa. <i>Materials Research Express</i> , 2015 , 2, 0165027		6
97	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	3.8	8
96	A new layered iron arsenide superconductor: (Ca,Pr)FeAs ₂ . <i>Journal of the American Chemical Society</i> , 2014 , 136, 846-9	16.4	92

95	Crystal structure and superconductivity of Ba _{1-x} Ce _x Te and Ba _{1-x} Te _{1-x} with two-dimensional Ba-Ge networks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5245-8	16.4	8
94	Structure of intermediate phase II of LiNH ₂ under high pressure. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 9991-6	3.4	2
93	New Intermetallic Ternary Phosphide Chalcogenide AP ₂ X ₂ (A = Zr, Hf; X = S, Se) Superconductors with PbFCl-Type Crystal Structure. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 074713	1.5	12
92	Phase changes in lithium amideborohydride complexes under high pressure. <i>Solid State Ionics</i> , 2014 , 262, 490-494	3.3	
91	Bcc-fcc structure transition of Te. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 192018	0.3	8
90	Pressure-Induced Enhancement of Superconductivity and Structural Transition in BiS ₂ -Layered LaO _{1-x} F _x BiS ₂ . <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 063704	1.5	93
89	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
88	distribution of butane in the host water cage of structure II clathrate hydrates. <i>Chemistry - A European Journal</i> , 2014 , 20, 17207-13	4.8	30
87	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	1.5	9
86	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	3.8	30
85	Thermal Decomposition of Pentaerythritol Tetranitrate under Static High Pressure. <i>Propellants, Explosives, Pyrotechnics</i> , 2013 , 38, 394-398	1.7	4
84	New Member of BiS ₂ -Based Superconductor NdO _{1-x} F _x BiS ₂ . <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 033708	1.5	222
83	Ca-VII: a chain ordered host-guest structure of calcium above 210 GPa. <i>Physical Review Letters</i> , 2013 , 110, 235501	7.4	29
82	Distinct responses to mechanical grinding and hydrostatic pressure in luminescent chromism of tetrathiazolylthiophene. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10322-5	16.4	377
81	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	1.4	4
80	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,	3.3	16
79	Formation of LiBH ₄ hydrate with dihydrogen bonding. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 111-114	1.4	13
78	BiS ₂ -based layered superconductor Bi ₄ O ₄ S ₃ . <i>Physical Review B</i> , 2012 , 86,	3.3	336

77	Superconductivity in Novel BiS ₂ -Based Layered Superconductor LaO _{1-x} F _x BiS ₂ . <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 114725	1.5	344
76	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	1.5	2
75	Identification of superlattice structure c16 in the P-VI phase of phosphorus at 340 GPa and room temperature via x-ray diffraction. <i>Physical Review B</i> , 2012 , 86,	3.3	16
74	Crystal structure of anhydrous 5-aminotetrazole and its high-pressure behavior. <i>CrystEngComm</i> , 2011 , 13, 99-102	3.3	15
73	Structural and valence changes of europium hydride induced by application of high-pressure H ₂ . <i>Physical Review Letters</i> , 2011 , 107, 025501	7.4	27
72	Na-Au intermetallic compounds formed under high pressure at room temperature. <i>Physical Review B</i> , 2011 , 84,	3.3	5
71	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	7
70	Ca-VI: A high-pressure phase of calcium above 158 GPa. <i>Physical Review B</i> , 2010 , 81,	3.3	36
69	Phase transition analysis of 5-aminotetrazole from room temperature to the melting point. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12572-6	3.4	4
68	Changes in structure and proton conductivity at III phase transition of Rb ₃ H(SO ₄) ₂ . <i>Solid State Ionics</i> , 2010 , 181, 567-571	3.3	3
67	Single composite crystal structure analysis of incommensurate spin-ladder compound Sr _{2.5} Ca _{11.5} Cu ₂₄ O ₄₁ . <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S219-S220	1.3	
66	Vibrational and structural study in phase I of Rb ₃ H(SO ₄) ₂ . <i>Physica B: Condensed Matter</i> , 2010 , 405, 291-295	3.3	5
65	Crystal structures of calcium IV and V under high pressure. <i>Physical Review Letters</i> , 2008 , 101, 095503	7.4	45
64	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	2.8	1
63	Crystal Structure of the High-Pressure Phase of Mercury: A Novel Monoclinic Distortion of the Close-Packed Structure. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 023601	1.5	13
62	Hexaaquazinc(II) dipicrate trihydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007 , 63, m423-6		2
61	Using X-ray diffraction to study thermal phase transitions in Cs ₅ H ₃ (SO ₄) ₄ ·H ₂ O. <i>Solid State Ionics</i> , 2007 , 178, 1262-1267	3.3	6
60	Vibrational spectra of CsHSO ₄ at high pressure and high temperature. <i>Physical Review B</i> , 2007 , 75,	3.3	6

59	Incommensurate Structure of Phosphorus Phase IV. <i>Physical Review Letters</i> , 2007 , 98,	7.4	43
58	O8 cluster structure of the epsilon phase of solid oxygen. <i>Physical Review Letters</i> , 2006 , 97, 085503	7.4	95
57	Crystal structure of the high-pressure phase of hexahydro-1,3,5-trinitro-1,3,5-triazine (gamma-RDX). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 23655-9	3.4	32
56	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	5.7	2
55	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	1.6	1
54	Mg-doping experiment and electrical transport measurement of boron nanobelts. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2799-2804	3.3	15
53	Phase transition in a superprotonic conductor Cs ₂ (HSO ₄)(H ₂ PO ₄) induced by water vapor. <i>Solid State Ionics</i> , 2006 , 177, 1275-1279	3.3	8
52	Incommensurate composite crystal structure of scandium-II. <i>Physical Review B</i> , 2005 , 72,	3.3	47
51	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	2.8	1
50	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	9
49	New helical chain structure for scandium at 240 GPa. <i>Physical Review Letters</i> , 2005 , 94, 195503	7.4	41
48	Structural phase transitions in iodine under high pressure. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219, 749-754	1	8
47	Spiral chain structure of high pressure selenium and sulfur from powder x-ray diffraction. <i>Physical Review B</i> , 2004 , 70,	3.3	37
46	Molecular dissociation and two low-temperature high-pressure phases of H ₂ S. <i>Physical Review B</i> , 2004 , 69,	3.3	37
45	Incommensurately Modulated Phase of Iodine Under High Pressure. <i>Ferroelectrics</i> , 2004 , 305, 103-106	0.6	3
44	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	2.8	5
43	Modulated structure of solid iodine during its molecular dissociation under high pressure. <i>Nature</i> , 2003 , 423, 971-4	50.4	130
42	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. <i>Physical Review B</i> , 2003 , 68,	3.3	17

41	Infrared investigation on ice VIII and the phase diagram of dense ices. <i>Physical Review B</i> , 2003 , 68,	3.3	49
40	High-pressure spectroscopic measurement on diffusion with a diamond-anvil cell. <i>Review of Scientific Instruments</i> , 2003 , 74, 2472-2476	1.7	2
39	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	1.6	
38	Axial ratio of Zn at high pressure and low temperature. <i>Physical Review B</i> , 2002 , 65,	3.3	21
37	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	1.6	8
36	High-pressure structures of methane hydrate. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 11443-11448		2
35	High-pressure powder x-ray diffraction experiments on Zn at low temperature. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10563-10568	1.8	7
34	Protonic diffusion in high-pressure ice VII. <i>Science</i> , 2002 , 295, 1264-6	33.3	39
33	Pressure-induced phase transition in C ₆ O ₂ I ₄ . <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10415-10418	1.8	1
32	Proton Diffusion in High Pressure Ice. <i>High Pressure Research</i> , 2002 , 22, 9-11	1.6	0
31	High-pressure structures of methane hydrate observed up to 8 GPa at room temperature. <i>Journal of Chemical Physics</i> , 2001 , 115, 7066-7070	3.9	91
30	"Devil's staircase"-type phase transition in NaV ₂ O ₅ under high pressure. <i>Physical Review Letters</i> , 2001 , 87, 086402	7.4	53
29	Structural study on pressure-induced metallization of C ₆ I ₆ . <i>Synthetic Metals</i> , 2001 , 120, 767-768	3.6	9
28	Shock and Static Compression of Nitrobenzene. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4875-4880	1.4	6
27	Infrared spectroscopic study of H ₂ O/D ₂ O mixed ice up to 100 GPa. <i>Physical Review B</i> , 2000 , 62, 2976-2979	3.3	17
26	Raman study of phase transition and hydrogen bond symmetrization in solid DCl at high pressure. <i>Physical Review B</i> , 2000 , 61, 119-124	3.3	21
25	Structural study of hexaiodobenzene up to 9.7 GPa. <i>Physical Review B</i> , 2000 , 62, 8759-8765	3.3	8
24	Methane Hydrate Behavior under High Pressure. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1429-1433	3.4	78

23	Molecular Dissociation in Deuterium Sulfide under High Pressure: Infrared and Raman Study. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8838-8842	2.8	15
22	Raman and infrared study of phase transitions in solid HBr under pressure. <i>Physical Review B</i> , 1999 , 59, 11244-11250	3.3	39
21	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	3.3	61
20	Hydrogen-bond symmetrization and molecular dissociation in hydrogen halids. <i>Physica B: Condensed Matter</i> , 1999 , 265, 83-86	2.8	27
19	Structural change of iodanyl under high pressure. <i>Synthetic Metals</i> , 1999 , 103, 1901-1902	3.6	10
18	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	12
17	Structures of H ₂ S: Phases I? and IV under high pressure. <i>Physical Review B</i> , 1998 , 57, 2651-2654	3.3	39
16	Introduction to DAC Techniques. High Pressure X-ray Powder Diffraction Experiments and Intensity Analyses.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1998 , 8, 4-9	0	9
15	High-pressure phase transitions of solid H ₂ S probed by Fourier-transform infrared spectroscopy. <i>Physical Review B</i> , 1997 , 55, 5538-5541	3.3	19
14	Pressure-Induced Molecular Dissociation and Metallization in Hydrogen-Bonded H ₂ S Solid. <i>Physical Review Letters</i> , 1997 , 79, 1082-1085	7.4	63
13	Pressure dependence of the lattice constant of diamond: Isotopic effects. <i>JETP Letters</i> , 1996 , 63, 83-88	1.2	8
12	Infrared absorption study of the hydrogen-bond symmetrization in ice to 110 GPa. <i>Physical Review B</i> , 1996 , 54, 15673-15677	3.3	147
11	Equation of state of cobalt up to 79 GPa. <i>Physical Review B</i> , 1996 , 54, 5-7	3.3	35
10	Pressure dependence of the electron density in solid iodine by the maximum-entropy method. <i>High Pressure Research</i> , 1996 , 14, 335-340	1.6	10
9	Stability and the equation of state of alpha -manganese under ultrahigh pressure. <i>Physical Review B</i> , 1995 , 52, 13257-13260	3.3	46
8	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	3.9	56
7	Rietveld analysis of high-pressure phase of praseodymium. <i>AIP Conference Proceedings</i> , 1994 ,	0	5
6	Crystal structure of the distorted FCC high-pressure phase of praseodymium. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, L369-L374	1.8	41

- 5 High-pressure structural phase transition in indium. *Physical Review B*, **1993**, 47, 8465-8470 3.3 32
- 4 Application of an imaging plate to high-pressure x-ray study with a diamond anvil cell (invited). *Review of Scientific Instruments*, **1992**, 63, 967-973 1.7 160
- 3 Cs(VI): A new high-pressure polymorph of cesium above 72 GPa. *Physical Review Letters*, **1991**, 66, 2014-2017 4.1 42
- 2 Evidence for molecular dissociation in bromine near 80 GPa. *Physical Review Letters*, **1989**, 63, 536-539 7.4 83
- 1 Synthesis PbFCl-Type Mixed Anion APX(A=Hf, X=S, Se) Superconductors Related with Topological Materials by High-Pressure Technique. *Materials Science Forum*, 1016, 708-714 0.4