

Takashi Ohhara

List of Publications by Year in descending order

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2,237
citations

304743

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docs citations

84
times ranked

2586
citing authors

#	ARTICLE	IF	CITATIONS
1	Endohedral Clusterization of Ten Water Molecules into a "Molecular Ice" within the Hydrophobic Pocket of a Self-Assembled Cage. <i>Journal of the American Chemical Society</i> , 2005, 127, 2798-2799.	13.7	276
2	A Dinuclear Ni(\hat{A} -H)Ru Complex Derived from H ₂ . <i>Science</i> , 2007, 316, 585-587.	12.6	252
3	A Functional [NiFe]Hydrogenase Mimic That Catalyzes Electron and Hydride Transfer from H ₂ . <i>Science</i> , 2013, 339, 682-684.	12.6	229
4	Encapsulating Mobile Proton Carriers into Structural Defects in Coordination Polymer Crystals: High Anhydrous Proton Conduction and Fuel Cell Application. <i>Journal of the American Chemical Society</i> , 2016, 138, 8505-8511.	13.7	146
5	Structure of HIV-1 protease in complex with potent inhibitor KNI-272 determined by high-resolution X-ray and neutron crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4641-4646.	7.1	131
6	Complicated water orientations in the minor groove of the B-DNA decamer d(CCATTAAATGG) ₂ observed by neutron diffraction measurements. <i>Nucleic Acids Research</i> , 2005, 33, 3017-3024.	14.5	108
7	Combined High-Resolution Neutron and X-ray Analysis of Inhibited Elastase Confirms the Active-Site Oxyanion Hole but Rules against a Low-Barrier Hydrogen Bond. <i>Journal of the American Chemical Society</i> , 2009, 131, 11033-11040.	13.7	75
8	Unique Helical Magnetic Order and Field-Induced Phase in Trillium Lattice Antiferromagnet EuPtSi. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 013702.	1.6	75
9	Materials and Life Science Experimental Facility (MLF) at the Japan Proton Accelerator Research Complex II: Neutron Scattering Instruments. <i>Quantum Beam Science</i> , 2017, 1, 9.	1.2	69
10	Development of data processing software for a new TOF single crystal neutron diffractometer at J-PARC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 600, 195-197.	1.6	67
11	Neutron structure analysis using the IBARAKI biological crystal diffractometer (iBIX) at J-PARC. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 1194-1197.	2.5	65
12	SENJU: a new time-of-flight single-crystal neutron diffractometer at J-PARC. <i>Journal of Applied Crystallography</i> , 2016, 49, 120-127.	4.5	64
13	Hydrogen-bond network and pH sensitivity in transthyretin: Neutron crystal structure of human transthyretin. <i>Journal of Structural Biology</i> , 2012, 177, 283-290.	2.8	60
14	To Flip or Not To Flip? Assessing the Inversion Barrier of the Tetraphenylene Framework with Enantiopure 2,15-Dideuteriotetraphenylene and 2,7-Dimethyltetraphenylene. <i>Journal of Organic Chemistry</i> , 2009, 74, 359-369.	3.2	56
15	Evaluation of performance for IBARAKI biological crystal diffractometer iBIX with new detectors. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 994-998.	2.4	46
16	Charge-Density-Wave Order and Multiple Magnetic Transitions in Divalent Europium Compound EuAl ₄ . <i>Journal of the Physical Society of Japan</i> , 2021, 90, 064704.	1.6	38
17	High oxide-ion conductivity in Si-deficient La _{0.9565} (Si _{0.826} âj _{0.174})O ₂₆ apatite without interstitial oxygens due to the overbonded channel oxygens. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10835-10846.	10.3	32
18	Structural Refinement and Extraction of Hydrogen Atomic Positions in Polyoxymethylene Crystal Based on the First Successful Measurements of 2-Dimensional High-Energy Synchrotron X-ray Diffraction and Wide-Angle Neutron Diffraction Patterns of Hydrogenated and Deuterated Species. <i>Polymer Journal</i> , 2007, 39, 1253-1273.	2.7	31

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19	Molecular Gyrotops with a Five-Membered Heteroaromatic Ring: Synthesis, Temperature-Dependent Orientation of Dipolar Rotors inside the Crystal, and its Birefringence Change. <i>Crystal Growth and Design</i> , 2016, 16, 4392-4401.	3.0	27
20	Non-aqueous selective synthesis of orthosilicic acid and its oligomers. <i>Nature Communications</i> , 2017, 8, 140.	12.8	27
21	Anomalous Water Molecules and Mechanistic Effects of Water Nanotube Clusters Confined to Molecular Porous Crystals. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2091-2099.	2.6	26
22	Direct observation of deuterium migration in crystalline-state reaction by single-crystal neutron diffraction. II. ^3H Photoisomerization of a cobaloxime complex. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 245-253.	1.8	22
23	Correlated Li-ion migration in the superionic conductor $\text{Li}_{10}\text{GeP}_{12}\text{S}_{12}$. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11278-11284.	10.3	21
24	Overview of a new biological neutron diffractometer (iBIX) in J-PARC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 600, 161-163.	1.6	20
25	Neutron scattering study of yttrium iron garnet. <i>Physical Review B</i> , 2018, 97, .	3.2	19
26	Direct Observation of Deuterium Migration in Crystalline-State Reaction by Single Crystal Neutron Diffraction IV. ^3H Rotation of a Long Alkyl Radical Produced by Photoirradiation. <i>Journal of the American Chemical Society</i> , 2002, 124, 14736-14740.	13.7	17
27	Peak overlapping and its de-convolution in TOF diffraction data from neutron biological diffractometer in J-PARC. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 1062-1065.	2.7	16
28	Application of profile fitting method to neutron time-of-flight protein single crystal diffraction data collected at the iBIX. <i>Scientific Reports</i> , 2016, 6, 36628.	3.3	16
29	Status of the neutron time-of-flight single-crystal diffraction data-processing software <i>iSTAR</i> Gazer. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1041-1052.	2.3	15
30	Magnetic Structure of Divalent Europium Compound EuGa_4 Studied by Single-Crystal Time-of-Flight Neutron Diffraction. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 114711.	1.6	13
31	Direct observation of deuterium migration in crystalline-state reaction by single-crystal neutron diffraction. III. Photoracemization of 1-cyanoethyl cobaloxime complexes. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 551-559.	1.8	12
32	A New Photoisomerization Process of the 4-Cyanobutyl Group in a Cobaloxime Complex Crystal Observed by Neutron Diffraction. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 692-701.	3.2	12
33	Crystallization of porcine pancreatic elastase and a preliminary neutron diffraction experiment. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 315-317.	0.7	12
34	Neutron diffraction analysis of deuterium transfer in chiral β^2 -thiolactam formation in the crystalline state. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 153-160.	1.8	11
35	Crystalline-State Photoisomerization of β^1, β^2 -Unsaturated Thioamide Analyzed by X-rays. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 2147-2151.	3.2	10
36	Hydrogen migration mechanism in crystalline-state photoisomerization by analyzed neutron diffraction. <i>Crystallography Reviews</i> , 2006, 12, 83-123.	1.5	10

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37	Proton Order-Disorder Phenomena in a Hydrogen-Bonded Rhodium ⁵⁺ Semiquinone Complex: A Possible Dielectric Response Mechanism. <i>Chemistry - A European Journal</i> , 2015, 21, 9682-9696.	3.3	10
38	Mn ₂ VAI Heusler alloy thin films: appearance of antiferromagnetism and exchange bias in a layered structure with Fe. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 065001.	2.8	10
39	Profile functions to reproduce Bragg reflection shapes observed by a time-of-flight single-crystal diffractometer installed at a coupled moderator pulsed neutron source in J-PARC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 723, 128-135.	1.6	8
40	Deuterium Migration Mechanism in Chiral Thiolactam Formation by Neutron Diffraction Analysis. <i>Chemistry Letters</i> , 2003, 32, 742-743.	1.3	7
41	Structure of Morpholinium Tribromoplumbate C ₄ H ₈ ONH ₂ PbBr ₃ Studied Using Single-Crystal Neutron Diffraction. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 094602.	1.6	7
42	Structure Analysis and Derivation of Deformed Electron Density Distribution of Polydiacetylene Giant Single Crystal by the Combination of X-ray and Neutron Diffraction Data. <i>Macromolecules</i> , 2018, 51, 3911-3922.	4.8	7
43	Hydrogen-bond network and pH sensitivity in human transthyretin. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 834-837.	2.4	6
44	Insights into Proton Dynamics in a Photofunctional Salt-Cocrystal Continuum: Single-Crystal X-ray, Neutron Diffraction, and Hirshfeld Atom Refinement. <i>Chemistry - A European Journal</i> , 2021, 27, 17802-17807.	3.3	5
45	Direct Observation of Correlation between Crystalline-State Deuterium Transfer and Racemization of 1-Cyanoethylcobaloxime Complex by Neutron Diffraction. <i>Chemistry Letters</i> , 1998, 27, 365-366.	1.3	4
46	Single-Crystal Neutron Diffraction Study of the Heavy-Electron Superconductor CeNiGe ₃ . <i>Journal of the Physical Society of Japan</i> , 2015, 84, 123701.	1.6	4
47	Development of spin-contrast-variation neutron powder diffractometry for extracting the structure factor of hydrogen atoms. <i>Journal of Applied Crystallography</i> , 2021, 54, 454-460.	4.5	4
48	Overview of a New Biological Neutron Diffractometer (iBIX) and New Developments in Chemistry and Life Science Brought by iBIX. <i>Nihon Kessho Gakkaishi</i> , 2008, 50, 13-17.	0.0	4
49	Magnetic, thermal, and neutron diffraction studies of a coordination polymer: bis(glycolato)cobalt(ii). <i>Dalton Transactions</i> , 2019, 48, 333-338.	3.3	3
50	Quantum proton entanglement on a nanocrystalline silicon surface. <i>Physical Review B</i> , 2021, 103, .	3.2	3
51	Instrument Design and Performance Evaluation of a New Single Crystal Neutron Diffractometer SENJU at J-PARC. , , .		3
52	Towards investigation of the inhibitor-recognition mechanisms of drug-target proteins by neutron crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 1126-1130.	2.5	2
53	Crystal Structure and Cation Distribution of the X-type Hexaferrite Sr ₂ Co ₂ Fe ₂₈ O ₄₆ . <i>Journal of the Physical Society of Japan</i> , 2020, 89, 034601.	1.6	2
54	Multi-Step Magnetic Transitions in EuNiIn ₄ . <i>Journal of the Physical Society of Japan</i> , 2020, 89, 014707.	1.6	2

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55	Programmable Synthesis of Silver Wheels. <i>Inorganic Chemistry</i> , 2021, 60, 6403-6409.	4.0	2
56	Quantum twin spectra in nanocrystalline silicon. <i>Physical Review Materials</i> , 2017, 1, .	2.4	2
57	Improvement of nano-polycrystalline diamond anvil cells with Zr-based bulk metallic glass cylinder for higher pressures: application to Laue-TOF diffractometer. <i>High Pressure Research</i> , 2022, 42, 121-135.	1.2	2
58	Phase Transition and Internal Crystal Structure of Superprotonic Conductor, $\text{Rb}_3\text{xKxH}(\text{SeO}_4)_2$. , 2015, , .		1
59	$\langle i \rangle^{1/4} \langle /i \rangle$ SR and Neutron Scattering Studied on Possible Partially-Disordered Magnetic State Coexisting with Heavy Quasiparticles in SmPt_2Si_2 . , 2020, , .		1
60	Single-Crystal Neutron Diffraction Analysis in Chemistry. <i>Radioisotopes</i> , 2010, 59, 279-287.	0.2	1
61	IBARAKI Biological Crystal Diffractometer at BL03 (iBIX). <i>Hamon</i> , 2010, 20, 16-20.	0.0	1
62	Structural Study of Hydrogen and Hydration by the IBARAKI Biological Crystal Diffractometer (iBIX)/Industrial Use. <i>Radioisotopes</i> , 2011, 60, 89-97.	0.2	1
63	Current Status of an Extreme Environment Single Crystal Neutron Diffractometer SENJU at J-PARC. , 2015, , .		1
64	Crystal Structure of n-Butyl .ALPHA.-Cyano-4-(2-(4-pyridyl)ethenyl)cinnamate Recrystallized from Ethanol.. <i>Analytical Sciences</i> , 1997, 13, 697-699.	1.6	0
65	Measurements of small organic molecules on the single crystal neutron diffractometers for biomolecules at JAERI. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 1049-1051.	2.7	0
66	3P008 Neutron structure analysis of the complex of porcine pancreatic elastase with its inhibitor (Proteins-structure and structure-function relationship, Poster Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S205.	0.1	0
67	Frontispiece: Proton Order-Disorder Phenomena in a Hydrogen-Bonded Rhodium- δ -5-Semiquinone Complex: A Possible Dielectric Response Mechanism. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	3.3	0
68	Magnetic-Ordering Propagation Vectors of Terbium Hexaboride Revisited. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 064705.	1.6	0
69	Determination of Crystallographic Planes for a Polyhedral Single Crystal. , 2021, , .		0
70	Determination of localized surface phonons in nanocrystalline silicon by inelastic neutron scattering spectroscopy and its application to deuterium isotope enrichment. <i>Physical Review Materials</i> , 2021, 5, .	2.4	0
71	Direct Observation of Crystalline-State Reactions by Single Crystal Neutron Diffraction Analyses. <i>Nihon Kessho Gakkaishi</i> , 2008, 50, 98-102.	0.0	0
72	Recent Advance of the Neutron Crystal Chemistry by using High Intensity Neutron Beam at J-PARC. <i>Nihon Kessho Gakkaishi</i> , 2014, 56, 301-306.	0.0	0

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73	The Classical Structure of TaCp ₂ (H)(SiMe ₂ H) ₂ . Journal of Chemical Research, 1999, 23, 14-15.	1.3	0
74	Single Crystal Diffractometers at J-PARC. Hamon, 2015, 25, 171-178.	0.0	0
75	Current Status and Future Prospects of Single Crystal Neutron Diffractometer iBIX. , 2019, , .		0
76	Recent Researches of Physical Properties and Reactions in Molecular Crystals Using Neutron Diffraction Technique. Nihon Kessho Gakkaishi, 2019, 61, 153-154.	0.0	0
77	Single-crystal structure analysis of non-deuterated triglycine sulfate by neutron diffraction at 20 and 298 K: a new disorder model for the 298 K structure. Acta Crystallographica Section E: Crystallographic Communications, 2022, 78, 306-312.	0.5	0
78	Structural & Chemical Study of Molecular Crystals Based on Precise Positions of Hydrogen Atoms by Single-Crystal Neutron Diffraction. Nihon Kessho Gakkaishi, 2022, 64, 132-139.	0.0	0