

Takashi Ohhara

List of Publications by Year in descending order

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304743

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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
2	Improvement of nano-polycrystalline diamond anvil cells with Zr-based bulk metallic glass cylinder for higher pressures: application to Laue-TOF diffractometer. High Pressure Research, 2022, 42, 121-135.	1.2	2
3	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
4	Development of spin-contrast-variation neutron powder diffractometry for extracting the structure factor of hydrogen atoms. Journal of Applied Crystallography, 2021, 54, 454-460.	4.5	4
5	Determination of Crystallographic Planes for a Polyhedral Single Crystal. , 2021, , .		0
6	Programmable Synthesis of Silver Wheels. Inorganic Chemistry, 2021, 60, 6403-6409.	4.0	2
7	Quantum proton entanglement on a nanocrystalline silicon surface. Physical Review B, 2021, 103, .	3.2	3
8	Determination of localized surface phonons in nanocrystalline silicon by inelastic neutron scattering spectroscopy and its application to deuterium isotope enrichment. Physical Review Materials, 2021, 5, .	2.4	0
9	Charge-Density-Wave Order and Multiple Magnetic Transitions in Divalent Europium Compound EuAl_4 . Journal of the Physical Society of Japan, 2021, 90, 064704.	1.6	38
10	Correlated Li-ion migration in the superionic conductor $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. Journal of Materials Chemistry A, 2021, 9, 11278-11284.	10.3	21
11	Insights into Proton Dynamics in a Photofunctional Salt-Cocrystal Continuum: Single-Crystal X-ray, Neutron Diffraction, and Hirshfeld Atom Refinement. Chemistry - A European Journal, 2021, 27, 17802-17807.	3.3	5
12	Crystal Structure and Cation Distribution of the X-type Hexaferrite $\text{Sr}_2\text{Co}_2\text{Fe}_{28}\text{O}_{46}$. Journal of the Physical Society of Japan, 2020, 89, 034601.	1.6	2
13	$\frac{1}{4}$ SR and Neutron Scattering Studied on Possible Partially-Disordered Magnetic State Coexisting with Heavy Quasiparticles in SmPt_2Si_2 . , 2020, , .		1
14	Multi-Step Magnetic Transitions in EuNiIn_4 . Journal of the Physical Society of Japan, 2020, 89, 014707.	1.6	2
15	Magnetic, thermal, and neutron diffraction studies of a coordination polymer: bis(glycolato)cobalt(II). Dalton Transactions, 2019, 48, 333-338.	3.3	3
16	Unique Helical Magnetic Order and Field-Induced Phase in Trillium Lattice Antiferromagnet EuPtSi . Journal of the Physical Society of Japan, 2019, 88, 013702.	1.6	75
17	Current Status and Future Prospects of Single Crystal Neutron Diffractometer iBIX. , 2019, , .		0
18	Recent Researches of Physical Properties and Reactions in Molecular Crystals Using Neutron Diffraction Technique. Nihon Kessho Gakkaishi, 2019, 61, 153-154.	0.0	0

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19	Neutron scattering study of yttrium iron garnet. <i>Physical Review B</i> , 2018, 97, .	3.2	19
20	High oxide-ion conductivity in Si-deficient $\text{La}_{9.565}\text{Si}_{5.826}\text{O}_{26}$ apatite without interstitial oxygens due to the overbonded channel oxygens. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10835-10846.	10.3	32
21	Mn_2VAl 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
22	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
23	Magnetic-Ordering Propagation Vectors of Terbium Hexaboride Revisited. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 064705.	1.6	0
24	Status of the neutron time-of-flight single-crystal diffraction data-processing software <i>i>STAR</i> Gazer. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1041-1052.	2.3	15
25	Non-aqueous selective synthesis of orthosilicic acid and its oligomers. <i>Nature Communications</i> , 2017, 8, 140.	12.8	27
26	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
27	Quantum twin spectra in nanocrystalline silicon. <i>Physical Review Materials</i> , 2017, 1, .	2.4	2
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	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
30	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
31	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
32	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
33	Phase Transition and Internal Crystal Structure of Superprotonic Conductor, $\text{Rb}_3\text{xKxH}(\text{SeO}_4)_2$. , 2015, , .		1
34	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
35	Frontispiece: Proton Order-Disorder Phenomena in a Hydrogen-Bonded Rhodium- η -5-Semiquinone Complex: A Possible Dielectric Response Mechanism. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	3.3	0
36	Proton Order-Disorder Phenomena in a Hydrogen-Bonded Rhodium- η -5-Semiquinone Complex: A Possible Dielectric Response Mechanism. <i>Chemistry - A European Journal</i> , 2015, 21, 9682-9696.	3.3	10

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37	Single Crystal Diffractometers at J-PARC. Hamon, 2015, 25, 171-178.	0.0	0
38	Current Status of an Extreme Environment Single Crystal Neutron Diffractometer SENJU at J-PARC. , 2015, , .		1
39	Recent Advance of the Neutron Crystal Chemistry by using High Intensity Neutron Beam at J-PARC. Nihon Kessho Gakkaishi, 2014, 56, 301-306.	0.0	0
40	Instrument Design and Performance Evaluation of a New Single Crystal Neutron Diffractometer SENJU at J-PARC. , 2014, , .		3
41	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. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 723, 128-135.	1.6	8
42	A Functional [NiFe]Hydrogenase Mimic That Catalyzes Electron and Hydride Transfer from H ₂ . Science, 2013, 339, 682-684.	12.6	229
43	Hydrogen-bond network and pH sensitivity in human transthyretin. Journal of Synchrotron Radiation, 2013, 20, 834-837.	2.4	6
44	Evaluation of performance for IBARAKI biological crystal diffractometer iBIX with new detectors. Journal of Synchrotron Radiation, 2013, 20, 994-998.	2.4	46
45	Structure of Morpholinium Tribromoplumbate C ₄ H ₈ ONH ₂ PbBr ₃ Studied Using Single-Crystal Neutron Diffraction. Journal of the Physical Society of Japan, 2012, 81, 094602.	1.6	7
46	Hydrogen-bond network and pH sensitivity in transthyretin: Neutron crystal structure of human transthyretin. Journal of Structural Biology, 2012, 177, 283-290.	2.8	60
47	Structural Study of Hydrogen and Hydration by the IBARAKI Biological Crystal Diffractometer(iBIX)/Industrial Use. Radioisotopes, 2011, 60, 89-97.	0.2	1
48	Neutron structure analysis using the IBARAKI biological crystal diffractometer (iBIX) at J-PARC. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1194-1197.	2.5	65
49	Towards investigation of the inhibitor-recognition mechanisms of drug-target proteins by neutron crystallography. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1126-1130.	2.5	2
50	Anomalous Water Molecules and Mechanistic Effects of Water Nanotube Clusters Confined to Molecular Porous Crystals. Journal of Physical Chemistry B, 2010, 114, 2091-2099.	2.6	26
51	Single-Crystal Neutron Diffraction Analysis in Chemistry. Radioisotopes, 2010, 59, 279-287.	0.2	1
52	IBARAKI Biological Crystal Diffractometer at BL03 (iBIX). Hamon, 2010, 20, 16-20.	0.0	1
53	Structure of HIV-1 protease in complex with potent inhibitor KNI-272 determined by high-resolution X-ray and neutron crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4641-4646.	7.1	131
54	Development of data processing software for a new TOF single crystal neutron diffractometer at J-PARC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 195-197.	1.6	67

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55	Overview of a new biological neutron diffractometer (iBIX) in J-PARC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 161-163.	1.6	20
56	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. Journal of the American Chemical Society, 2009, 131, 11033-11040.	13.7	75
57	To Flip or Not To Flip? Assessing the Inversion Barrier of the Tetraphenylene Framework with Enantiopure 2,15-Dideuteriotetraphenylene and 2,7-Dimethyltetraphenylene. Journal of Organic Chemistry, 2009, 74, 359-369.	3.2	56
58	Overview of a New Biological Neutron Diffractometer (iBIX) and New Developments in Chemistry and Life Science Brought by iBIX. Nihon Kessho Gakkaishi, 2008, 50, 13-17.	0.0	4
59	Direct Observation of Crystalline-State Reactions by Single Crystal Neutron Diffraction Analyses. Nihon Kessho Gakkaishi, 2008, 50, 98-102.	0.0	0
60	3P008 Neutron structure analysis of the complex of porcine pancreatic elastase with its inhibitor (Proteins-structure and structure-function relationship, Poster Presentations). Seibutsu Butsuri, 2007, 47, S205.	0.1	0
61	Crystallization of porcine pancreatic elastase and a preliminary neutron diffraction experiment. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 315-317.	0.7	12
62	A Dinuclear Ni(\hat{A} -H)Ru Complex Derived from H ₂ . Science, 2007, 316, 585-587.	12.6	252
63	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. Polymer Journal, 2007, 39, 1253-1273.	2.7	31
64	A New Photoisomerization Process of the 4-Cyanobutyl Group in a Cobaloxime Complex Crystal Observed by Neutron Diffraction. Bulletin of the Chemical Society of Japan, 2006, 79, 692-701.	3.2	12
65	Neutron diffraction analysis of deuterium transfer in chiral \hat{I}^2 -thiolactam formation in the crystalline state. Acta Crystallographica Section B: Structural Science, 2006, 62, 153-160.	1.8	11
66	Peak overlapping and its de-convolution in TOF diffraction data from neutron biological diffractometer in J-PARC. Physica B: Condensed Matter, 2006, 385-386, 1062-1065.	2.7	16
67	Measurements of small organic molecules on the single crystal neutron diffractometers for biomolecules at JAERI. Physica B: Condensed Matter, 2006, 385-386, 1049-1051.	2.7	0
68	Hydrogen migration mechanism in crystalline-state photoisomerization by analyzed neutron diffraction. Crystallography Reviews, 2006, 12, 83-123.	1.5	10
69	Complicated water orientations in the minor groove of the B-DNA decamer d(CCATTAATGG) ₂ observed by neutron diffraction measurements. Nucleic Acids Research, 2005, 33, 3017-3024.	14.5	108
70	Endohedral Clusterization of Ten Water Molecules into a "Molecular Ice" within the Hydrophobic Pocket of a Self-Assembled Cage. Journal of the American Chemical Society, 2005, 127, 2798-2799.	13.7	276
71	Deuterium Migration Mechanism in Chiral Thiolactam Formation by Neutron Diffraction Analysis. Chemistry Letters, 2003, 32, 742-743.	1.3	7
72	Crystalline-State Photoisomerization of \hat{I}^2 -Unsaturated Thioamide Analyzed by X-rays. Bulletin of the Chemical Society of Japan, 2002, 75, 2147-2151.	3.2	10

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73	Direct Observation of Deuterium Migration in Crystalline-State Reaction by Single Crystal Neutron Diffraction IV. α -Hula-Twist-Rotation of a Long Alkyl Radical Produced by Photoirradiation. <i>Journal of the American Chemical Society</i> , 2002, 124, 14736-14740.	13.7	17
74	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
75	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
76	The Classical Structure of $\text{TaCp}_2(\text{H})(\text{SiMe}_2\text{H})_2$. <i>Journal of Chemical Research</i> , 1999, 23, 14-15.	1.3	0
77	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
78	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