

Asami Sano-Furukawa

List of Publications by Year in descending order

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79
papers

1,762
citations

257101

24
h-index

288905

40
g-index

81
all docs

81
docs citations

81
times ranked

1630
citing authors

#	ARTICLE	IF	CITATIONS
1	Aluminous hydrous mineral γ -AlOOH as a carrier of hydrogen into the core-mantle boundary. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	103
2	Design and performance of high-pressure PLANET beamline at pulsed neutron source at J-PARC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 780, 55-67.	0.7	96
3	Metastable garnet in oceanic crust at the top of the lower mantle. <i>Nature</i> , 2002, 420, 803-806.	13.7	89
4	In situ X-ray observation of decomposition of hydrous aluminum silicate AlSiO ₃ OH and aluminum oxide hydroxide δ -AlOOH at high pressure and temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1547-1554.	1.9	85
5	Change in compressibility of β -AlOOH and β -AlOOD at high pressure: A study of isotope effect and hydrogen-bond symmetrization. <i>American Mineralogist</i> , 2009, 94, 1255-1261.	0.9	85
6	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.	0.6	69
7	Site occupancy of interstitial deuterium atoms in face-centred cubic iron. <i>Nature Communications</i> , 2014, 5, 5063.	5.8	67
8	Six-axis multi-anvil press for high-pressure, high-temperature neutron diffraction experiments. <i>Review of Scientific Instruments</i> , 2014, 85, 113905.	0.6	62
9	The stability and equation of state for the cotunnite phase of TiO ₂ up to 70 GPa. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 129-136.	0.3	60
10	Neutron diffraction study of β -AlOOD at high pressure and its implication for symmetrization of the hydrogen bond. <i>American Mineralogist</i> , 2008, 93, 1558-1567.	0.9	55
11	Hydrogenation of iron in the early stage of Earth's evolution. <i>Nature Communications</i> , 2017, 8, 14096.	5.8	50
12	Ice Ic without stacking disorder by evacuating hydrogen from hydrogen hydrate. <i>Nature Communications</i> , 2020, 11, 464.	5.8	50
13	Direct observation of symmetrization of hydrogen bond in β -AlOOH under mantle conditions using neutron diffraction. <i>Scientific Reports</i> , 2018, 8, 15520.	1.6	48
14	Interstitial hydrogen atoms in face-centered cubic iron in the Earth's core. <i>Scientific Reports</i> , 2019, 9, 7108.	1.6	42
15	Water controls the fields of metastable olivine in cold subducting slabs. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	39
16	Observation of pressure-induced phase transition of β -AlOOH by using single-crystal synchrotron X-ray diffraction method. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 303-312.	0.3	38
17	Bulk moduli and equations of state of ice VII and ice VIII. <i>Physical Review B</i> , 2017, 95, .	1.1	36
18	Pressure-induced Diels-Alder Reactions in C ₆ H ₆ C ₆ F ₆ Cocrystal towards Graphene Structure. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1468-1473.	7.2	36

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19	A new high-pressure polymorph of Ti_2O_3 : implication for high-pressure phase transition in sesquioxides. High Pressure Research, 2009, 29, 379-388.	0.4	33
20	Redetermination of the high-pressure modification of AlOOH from single-crystal synchrotron data. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, i216-i218.	0.2	32
21	Partially ordered state of ice XV. Scientific Reports, 2016, 6, 28920.	1.6	31
22	Ice VII from aqueous salt solutions: From a glass to a crystal with broken H-bonds. Scientific Reports, 2016, 6, 32040.	1.6	31
23	Hexagonal Close-packed Iron Hydride behind the Conventional Phase Diagram. Scientific Reports, 2019, 9, 12290.	1.6	31
24	Investigation of hydrogen sites of wadsleyite: A neutron diffraction study. Physics of the Earth and Planetary Interiors, 2011, 189, 56-62.	0.7	28
25	Phase Transitions and Polymerization of C_6H_6 – C_6F_6 Cocrystal under Extreme Conditions. Journal of Physical Chemistry C, 2016, 120, 29510-29519.	1.5	25
26	Formation of NaCl-Type Monodeuteride LaD_2 by the Disproportionation Reaction of LaD_2 . Physical Review Letters, 2012, 108, 205501.	2.9	24
27	Development of a technique for high pressure neutron diffraction at 40–100 GPa with a Paris-Edinburgh press. High Pressure Research, 2019, 39, 417-425.	0.4	23
28	Distance-Selected Topochemical Dehydro-Diels-Alder Reaction of 1,4-Diphenylbutadiyne toward Crystalline Graphitic Nanoribbons. Journal of the American Chemical Society, 2020, 142, 17662-17669.	6.6	23
29	Neutron diffraction study of aluminous hydroxide $\hat{\text{I}}\text{-AlOOD}$. Physics and Chemistry of Minerals, 2007, 34, 657-661.	0.3	21
30	High-Pressure–High-Temperature Study of Benzene: Refined Crystal Structure and New Phase Diagram up to 8 GPa and 923 K. Crystal Growth and Design, 2018, 18, 3016-3026.	1.4	20
31	Suppressed Lattice Disorder for Large Emission Enhancement and Structural Robustness in Hybrid Lead Iodide Perovskite Discovered by High-Pressure Isotope Effect. Advanced Functional Materials, 2021, 31, 2009131.	7.8	20
32	Compression behaviors of distorted rutile-type hydrous phases, MOOH ($\text{M} = \text{Ga, In, Cr}$) and CrOOD . Physics and Chemistry of Minerals, 2012, 39, 375-383.	0.3	19
33	Crystal structure of magnesium dichloride decahydrate determined by X-ray and neutron diffraction under high pressure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 74-80.	0.5	19
34	Anomalous hydrogen dynamics of the ice VII–VIII transition revealed by high-pressure neutron diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6356-6361.	3.3	17
35	Developments of nano-polycrystalline diamond anvil cells for neutron diffraction experiments. High Pressure Research, 2020, 40, 184-193.	0.4	16
36	X-ray diffraction study of high pressure transition in InOOH . Journal of Mineralogical and Petrological Sciences, 2008, 103, 152-155.	0.4	15

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37	The crystal structure of \hat{A} -Al(OH) ₃ : Neutron diffraction measurements and ab initio calculations. <i>American Mineralogist</i> , 2011, 96, 854-859.	0.9	15
38	Effects of Mg and Si ions on the symmetry of \hat{I} -AlOOH. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 727-733.	0.3	15
39	In situ X-ray diffraction study of the effect of water on the garnet \hat{C} perovskite transformation in MORB and implications for the penetration of oceanic crust into the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 159, 118-126.	0.7	13
40	First principles prediction of new high-pressure phase of InOOH. <i>Journal of Mineralogical and Petrological Sciences</i> , 2008, 103, 116-120.	0.4	13
41	Phase transitions and hydrogen bonding in deuterated calcium hydroxide: High-pressure and high-temperature neutron diffraction measurements. <i>Journal of Solid State Chemistry</i> , 2014, 218, 95-102.	1.4	12
42	Pressure responses of portlandite and \hat{H} \hat{C} isotope effects on pressure-induced phase transitions. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 777-785.	0.3	11
43	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
44	Infrared absorption spectra of \hat{I} -AlOOH and its deuteride at high pressure and implication to pressure response of the hydrogen bonds. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012052.	0.3	10
45	Behavior of intermolecular interactions in \hat{I} -glycine under high pressure. <i>Journal of Chemical Physics</i> , 2018, 148, 044507.	1.2	9
46	Structure change of monoclinic ZrO ₂ baddeleyite involving softenings of bulk modulus and atom vibrations. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 742-749.	0.5	9
47	Structure refinement of black phosphorus under high pressure. <i>Journal of Chemical Physics</i> , 2020, 153, 014704.	1.2	9
48	X-ray and Neutron Study on the Structure of Hydrous SiO ₂ Glass up to 10 GPa. <i>Minerals (Basel)</i> , 2020, 10, 503.	0.8	9
49	Neutron powder diffraction of small-volume samples at high pressure using compact opposed-anvil cells and focused beam. <i>Journal of Physics: Conference Series</i> , 2012, 377, 012013.	0.3	8
50	Crystalline Fully Carboxylated Polyacetylene Obtained under High Pressure as a Li-Ion Battery Anode Material. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12055-12061.	2.1	7
51	A cubic-anvil high-pressure device for pulsed neutron powder diffraction. <i>Review of Scientific Instruments</i> , 2010, 81, 043910.	0.6	6
52	Synthesis, Structure, and Pressure-Induced Polymerization of Li ₃ Fe(CN) ₆ Accompanied with Enhanced Conductivity. <i>Inorganic Chemistry</i> , 2015, 54, 11276-11282.	1.9	6
53	Crystal and Magnetic Structures of Double Hexagonal Close-Packed Iron Deuteride. <i>Scientific Reports</i> , 2020, 10, 9934.	1.6	6
54	Crystal structure of nesquehonite, MgCO ₃ ·3H ₂ O by neutron diffraction and effect of pH on structural formulas of nesquehonite. <i>Journal of Mineralogical and Petrological Sciences</i> , 2021, 116, 96-103.	0.4	6

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55	High pressure experiments with the Engineering Materials Diffractometer (BL-19) at J-PARC. Journal of Physics: Conference Series, 2010, 215, 012023.	0.3	5
56	Neutron diffraction study on the deuterium composition of nickel deuteride at high temperatures and high pressures. Physica B: Condensed Matter, 2020, 587, 412153.	1.3	5
57	High-pressure and high-temperature neutron-diffraction experiments using Kawai-type multi-anvil assemblies. High Pressure Research, 2021, 41, 65-74.	0.4	5
58	Pressure-induced stacking disorder in boehmite. Physical Chemistry Chemical Physics, 2018, 20, 16650-16656.	1.3	4
59	Crystal structure change of katoite, $\text{Ca}_3\text{Al}_2(\text{O}_4\text{D}_4)_3$, with temperature at high pressure. Physics and Chemistry of Minerals, 2019, 46, 459-469.	0.3	4
60	Practical effects of pressure-transmitting media on neutron diffraction experiments using Parisâ€“Edinburgh presses. High Pressure Research, 2020, 40, 325-338.	0.4	4
61	Crystal structure and magnetism of MnO under pressure. Physical Review B, 2020, 101, .	1.1	4
62	Halide Perovskites: Suppressed Lattice Disorder for Large Emission Enhancement and Structural Robustness in Hybrid Lead Iodide Perovskite Discovered by Highâ€“Pressure Isotope Effect (Adv. Funct.) Tj ETQq0 0 0gBT /Overlock 10		
63	Behavior of light elements in iron-silicate-water-sulfur system during early Earthâ€™s evolution. Scientific Reports, 2021, 11, 12632.	1.6	4
64	Multi-methodical study of the Ti, Fe ²⁺ and Fe ³⁺ distribution in chevkinite-subgroup minerals: X-ray diffraction, neutron diffraction, ⁵⁷ Fe MÃ“ssbauer spectroscopy and electron-microprobe analyses. Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	3
65	Origin of magnetovolume effect in a cobaltite. Physical Review B, 2021, 103, .	1.1	3
66	Neutron diffraction study of hydrogen site occupancy in Fe_{0.95}Si_{0.05} at 14.7 GPa and 800 K. Journal of Mineralogical and Petrological Sciences, 2021, 116, 309-313.	0.4	2
67	Toward the High-Pressure and Temperature Neutron Diffraction Using Large Volume Press. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2016, 26, 99-107.	0.1	1
68	Pressureâ€“induced Dielsâ€“Alder Reactions in C₆H₆â€“C₆F₆ Cocrystal towards Graphane Structure. Angewandte Chemie, 2019, 131, 1482-1487.	1.6	1
69	Hydrogen motions of Mg(OD) ₂ and Ca(OD) ₂ at several temperatures. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C241-C241.	0.3	0
70	Overview of High-Pressure Neutron Beamline, PLANET, and Practical Aspects of the Experiments. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2016, 26, 89-98.	0.1	0
71	What can we do with the High-Pressure Neutron Diffractometer PLANET?. Nihon Kessho Gakkaishi, 2017, 59, 301-308.	0.0	0
72	<i>In-situ</i> Neutron Diffraction of Iron Hydride in Iron-silicate-water System under High Pressure and High Temperature Condition. Hamon, 2017, 27, 104-108.	0.0	0

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73	Neutron diffraction study on the pressure-induced cubic-tetragonal structural distortion in LaD ₂ using total scattering spectrometer NOVA. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C331-C331.	0.3	0
74	Neutron Diffraction Study on Hydrogen Bond in Mineral in the Deep Earth. <i>Hamon</i> , 2012, 22, 162-165.	0.0	0
75	Formation of NaCl-type Lanthanum Monohydride under High Pressure. <i>Hamon</i> , 2013, 23, 131-136.	0.0	0
76	Site Occupation State of Deuterium Atoms in fcc Fe. <i>Hamon</i> , 2015, 25, 26-31.	0.0	0
77	How had the High-Pressure Neutron Diffractometer PLANET been Constructed?. <i>Hamon</i> , 2016, 26, 85-90.	0.0	0
78	Crystal chemistry of Sr-rich piemontite from manganese ore deposit of the Tone mine, Nishisonogi Peninsula, Nagasaki, southwest Japan. <i>Journal of Mineralogical and Petrological Sciences</i> , 2020, 115, 391-406.	0.4	0
79	Pressure Effect on Isotope Fractionation Factor. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2020, 30, 85-94.	0.1	0