

# Satoru Urakawa

## List of Publications by Year in descending order

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45  
papers

2,206  
citations

257450

24  
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docs citations

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times ranked

1430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Density and elastic properties of liquid gallium up to 10 GPa using X-ray absorption method combined with externally heated diamond anvil cell. <i>High Pressure Research</i> , 2021, 41, 379-391.	1.2	1
2	X-ray and Neutron Study on the Structure of Hydrous SiO <sub>2</sub> Glass up to 10 GPa. <i>Minerals (Basel)</i> , 2020, 10, 1-9.	2.0	9
3	Pressure and Composition Effects on Sound Velocity and Density of Core-Forming Liquids: Implication to Core Compositions of Terrestrial Planets. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2272-2293.	3.6	39
4	Sound velocity and density of liquid Ni <sub>68</sub> Si <sub>32</sub> under pressure using ultrasonic and X-ray absorption with tomography methods. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 163-170.	1.2	2
5	Phase relationships of the system Fe-Ni-S and structure of the high-pressure phase of (Fe <sub>1-x</sub> Ni) <sub>3</sub> S <sub>2</sub> . <i>Physics of the Earth and Planetary Interiors</i> , 2018, 277, 30-37.	1.9	3
6	Thermoelastic properties of liquid Fe-C revealed by sound velocity and density measurements at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7984-7995.	3.4	24
7	Sound velocity and elastic properties of Fe-Ni and Fe-Ni-C liquids at high pressure. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 229-236.	0.8	19
8	Ponded melt at the boundary between the lithosphere and asthenosphere. <i>Nature Geoscience</i> , 2013, 6, 1041-1044.	12.9	144
9	Density of Fe-3.5 wt% C liquid at high pressure and temperature and the effect of carbon on the density of the molten iron. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 224, 77-82.	1.9	31
10	Interfacial tension of Fe-Si liquid at high pressure: Implications for liquid Fe-alloy droplet size in magma oceans. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 202-203, 1-6.	1.9	10
11	In situ X-ray diffraction study on pressure-induced structural changes in hydrous forsterite and enstatite melts. <i>Earth and Planetary Science Letters</i> , 2011, 308, 115-123.	4.4	12
12	Stability and bulk modulus of Ni <sub>3</sub> S, a new nickel sulfur compound, and the melting relations of the system Ni-NiS up to 10 GPa. <i>American Mineralogist</i> , 2011, 96, 558-565.	1.9	13
13	Density measurement of liquid FeS at high pressures using synchrotron X-ray absorption. <i>American Mineralogist</i> , 2011, 96, 864-868.	1.9	33
14	Density of carbonated peridotite magma at high pressure using an X-ray absorption method. <i>American Mineralogist</i> , 2011, 96, 553-557.	1.9	39
15	Density of dry peridotite magma at high pressure using an X-ray absorption method. <i>American Mineralogist</i> , 2010, 95, 144-147.	1.9	43
16	Density of high-Ti basalt magma at high pressure and origin of heterogeneities in the lunar mantle. <i>Earth and Planetary Science Letters</i> , 2010, 299, 285-289.	4.4	35
17	Development of high pressure apparatus for X-ray microtomography at SPring-8. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012026.	0.4	14
18	Measurement of hydrous peridotite magma density at high pressure using the X-ray absorption method. <i>Earth and Planetary Science Letters</i> , 2009, 287, 293-297.	4.4	63

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19	In situ measurement of interfacial tension of Fe <sup>S</sup> and Fe <sup>P</sup> liquids under high pressure using X-ray radiography and tomography techniques. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 174, 220-226.	1.9	23
20	Interfacial tension measurement of Ni-S liquid using high-pressure X-ray micro-tomography. <i>High Pressure Research</i> , 2008, 28, 327-334.	1.2	8
21	In situ X-ray experiment on the structure of hydrous Mg-silicate melt under high pressure and high temperature. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	24
22	Viscosity of liquid sulfur under high pressure. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 1707-1714.	1.8	17
23	Phase relationships and equations of state for FeS at high pressures and temperatures and implications for the internal structure of Mars. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 469-479.	1.9	64
24	Post-spinel transition in Mg <sub>2</sub> SiO <sub>4</sub> determined by high P-T in situ X-ray diffractometry. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 136, 11-24.	1.9	210
25	High-Pressure Phase Relationships for FeS. <i>High Pressure Research</i> , 2002, 22, 491-494.	1.2	5
26	Mechanisms and kinetics of the post-spinel transformation in Mg <sub>2</sub> SiO <sub>4</sub> . <i>Physics of the Earth and Planetary Interiors</i> , 2002, 129, 153-171.	1.9	56
27	Viscosity change and structural transition of Molten Fe at 5 GPa. <i>Geophysical Research Letters</i> , 2002, 29, 68-1-68-3.	4.0	32
28	In situ Observation of ilmenite-perovskite phase transition in MgSiO <sub>3</sub> using synchrotron radiation. <i>Geophysical Research Letters</i> , 2001, 28, 835-838.	4.0	83
29	The effect of temperature, pressure, and sulfur content on viscosity of the Fe <sup>S</sup> melt. <i>Earth and Planetary Science Letters</i> , 2001, 190, 93-101.	4.4	61
30	Radiographic study on the viscosity of the Fe-FeS melts at the pressure of 5 to 7 GPa. <i>American Mineralogist</i> , 2001, 86, 578-582.	1.9	34
31	Thermoelastic properties of the high-pressure phase of SnO <sub>2</sub> determined by in situ X-ray observations up to 30 GPa and 1400 K. <i>Physics and Chemistry of Minerals</i> , 2000, 27, 618-622.	0.8	55
32	Formation of metastable assemblages and mechanisms of the grain-size reduction in the Postspinel transformation of Mg <sub>2</sub> SiO <sub>4</sub> . <i>Geophysical Research Letters</i> , 2000, 27, 807-810.	4.0	35
33	High-pressure X-ray diffraction study on the structure of NaCl melt using synchrotron radiation. <i>American Mineralogist</i> , 1999, 84, 341-344.	1.9	8
34	The Postspinel Phase Boundary in Mg <sub>2</sub> SiO <sub>4</sub> Determined by in Situ X-ray Diffraction. <i>Science</i> , 1998, 279, 1698-1700.	12.6	251
35	X ray diffraction analysis of molten KCl and KBr under pressure: Pressure-induced structural transition in melt. <i>Geophysical Monograph Series</i> , 1998, , 241-248.	0.1	5
36	Structure of Molten Iron Sulfide under Pressure.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1998, 7, 286-288.	0.0	24

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37	SPring-8 Beamlines for High Pressure Science with Multi-Anvil Apparatus.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 1484-1486.	0.0	144
38	In-situ measurement of viscosity and density of carbonate melts at high pressure. Earth and Planetary Science Letters, 1996, 143, 207-215.	4.4	201
39	Pressure-induced structure change of molten KCl. High Pressure Research, 1996, 14, 375-382.	1.2	7
40	Synchrotron radiation study on the phase relations of KAlSi <sub>3</sub> O <sub>8</sub> . AIP Conference Proceedings, 1994, , .	0.4	1
41	Synchrotron radiation study on the high-pressure and high-temperature phase relations of KAlSi <sub>3</sub> O <sub>8</sub> . Physics and Chemistry of Minerals, 1994, 21, 387.	0.8	60
42	The Phase Boundary Between agr- and beta-Mg <sub>2</sub> SiO <sub>4</sub> Determined by in Situ X-ray Observation. Science, 1994, 265, 1202-1203.	12.6	217
43	Partitioning of Ni between magnesio-w <sup>1/4</sup> stite and metal at high pressure: implications for core-mantle equilibrium. Earth and Planetary Science Letters, 1991, 105, 293-313.	4.4	19
44	Stability of (Mg,Fe) <sub>14</sub> Si <sub>5</sub> O <sub>24</sub> AT 17 GP <sub>a</sub> and 1800 <sup>o</sup> C and its partitioning behavior of transition elements. Geophysical Research Letters, 1990, 17, 2457-2460.	4.0	1
45	Experimental study on the phase relations in the system Fe-Ni-O-S up to 15 GPa. Geophysical Monograph Series, 1987, , 95-111.	0.1	27