

# Daisuke Wakabayashi

## List of Publications by Year in descending order

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26  
papers

337  
citations

840776

11  
h-index

839539

18  
g-index

26  
all docs

26  
docs citations

26  
times ranked

499  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compression behavior of densified $\text{SiO}_2$ glass. Physical Review B, 2011, 84, .	3.2	57
2	Stability of the Liquid State of Imidazolium-Based Ionic Liquids under High Pressure at Room Temperature. Journal of Physical Chemistry B, 2015, 119, 8146-8153.	2.6	56
3	Towards a consensus on the pressure and composition dependence of sound velocity in the liquid $\text{Fe-S}$ system. Physics of the Earth and Planetary Interiors, 2016, 257, 230-239.	1.9	31
4	Enhanced plasticity of silica glass at high pressure. Physical Review B, 2015, 91, .	3.2	28
5	Anomalous behavior of cristobalite in helium under high pressure. Physics and Chemistry of Minerals, 2013, 40, 3-10.	0.8	22
6	Development of a versatile micro-focused angle-resolved photoemission spectroscopy system with Kirkpatrick-Baez mirror optics. Review of Scientific Instruments, 2022, 93, 033906.	1.3	21
7	<i>Ab initio</i> simulation of permanent densification in silica glass. Physical Review B, 2017, 96, .	3.2	16
8	High-pressure glass formation of a series of 1-alkyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide homologues. Physical Chemistry Chemical Physics, 2018, 20, 199-205.	2.8	15
9	Long Periodic Structure of a Room-Temperature Ionic Liquid by High-Pressure Small-Angle X-Ray Scattering and Wide-Angle X-Ray Scattering: 1-Decyl-3-Methylimidazolium Chloride. ChemPhysChem, 2018, 19, 1441-1447.	1.8	13
10	Coexistence of two states in optically homogeneous silica glass during the transformation in short-range order. Physical Review B, 2018, 98, .	3.2	13
11	Solving the problem of inconsistency in the reported equations of state for h-BN. High Pressure Research, 2015, 35, 123-129.	1.2	11
12	Equation of state of silicate melts with densified intermediate-range order at the pressure condition of the Earth's deep upper mantle. Physics and Chemistry of Minerals, 2013, 40, 299-307.	0.8	10
13	X-ray and Neutron Study on the Structure of Hydrous $\text{SiO}_2$ Glass up to 10 GPa. Minerals (Basel.), 2014, 1, 1-14.	2.0	9
14	Beamline commissioning for microscopic measurements with ultraviolet and soft X-ray beam at the upgraded beamline BL-13B of the Photon Factory. Journal of Synchrotron Radiation, 2022, 29, 400-408.	2.4	6
15	Nature of the transformation in liquid iodine at 4 GPa. Physical Review B, 2017, 96, .	3.2	5
16	Conceptual design of the Hybrid Ring with superconducting linac. Journal of Synchrotron Radiation, 2022, 29, 118-124.	2.4	5
17	Equation of state for silicate melts: A comparison between static and shock compression. Geophysical Research Letters, 2014, 41, 50-54.	4.0	4
18	Structure of sodium silicate water glass—X-ray scattering experiments and force-field molecular dynamics simulations. Journal of Non-Crystalline Solids, 2022, 579, 121370.	3.1	4

#	ARTICLE	IF	CITATIONS
19	Muonium in Stishovite: Implications for the Possible Existence of Neutral Atomic Hydrogen in the Earth's Deep Mantle. <i>Scientific Reports</i> , 2015, 5, 8437.	3.3	3
20	Do SnI <sub>4</sub> molecules deform on heating and pressurization in the low-pressure crystalline phase?. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 055401.	1.8	3
21	Azimuthal-rotation sample holder for molecular orientation analysis. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1167-1171.	2.4	2
22	X-ray zooming microscopy with two Fresnel zone plates. <i>Review of Scientific Instruments</i> , 2022, 93, 033701.	1.3	2
23	Kinetic model for phase transformation of noncrystalline solids: Application to permanent densification of SiO <sub>2</sub> glass. <i>Physical Review B</i> , 2021, 103, .	3.2	1
24	Permanent Densification of SiO <sub>2</sub> Glass. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2019, 29, 129-137.	0.0	0
25	Photoelectron shield for the first mirror of a soft X-ray beamline. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 86-90.	2.4	0
26	X-ray zooming optics for analyzer-based multi-contrast computed tomography. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 787-793.	2.4	0