

Masayuki Nishi

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

675
citations

759233

12
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

543
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of hydrous silicate at high pressures and water transport to the deep lower mantle. <i>Nature Geoscience</i> , 2014, 7, 224-227.	12.9	259
2	The pyrite-type high-pressure form of FeOOH. <i>Nature</i> , 2017, 547, 205-208.	27.8	123
3	Slow Si-Al interdiffusion in garnet and stagnation of subducting slabs. <i>Earth and Planetary Science Letters</i> , 2013, 361, 44-49.	4.4	50
4	Crystal chemistry of dense hydrous magnesium silicates: The structure of phase H, MgSiH ₂ O ₄ , synthesized at 45 GPa and 1000 ÅC. <i>American Mineralogist</i> , 2014, 99, 1802-1805.	1.9	36
5	Phase relations in the system MgSiO ₃ - Al ₂ O ₃ up to 52 GPa and 2000 K. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 257, 18-27.	1.9	31
6	Survival of pyrope garnet in subducting plates. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 170, 274-280.	1.9	30
7	Survival of majoritic garnet in diamond by direct kimberlite ascent from deep mantle. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	18
8	Solid Solution and Compression Behavior of Hydroxides in the Lower Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10231-10239.	3.4	16
9	Phase transitions of serpentine in the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 245, 52-58.	1.9	14
10	Metastable transformations of eclogite to garnetite in subducting oceanic crust. <i>Journal of Mineralogical and Petrological Sciences</i> , 2009, 104, 192-198.	0.9	13
11	Exsolution kinetics of majoritic garnet from clinopyroxene in subducting oceanic crust. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 189, 47-55.	1.9	13
12	Thermal equation of state of MgSiO ₄ phase H determined by in situ X-ray diffraction and a multianvil apparatus. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 995-1001.	0.8	12
13	Growth kinetics of MgSiO ₃ perovskite reaction rim between stishovite and periclase up to 50 GPa and its implication for grain boundary diffusivity in the lower mantle. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 191-198.	4.4	11
14	Mantle hydration. <i>Nature Geoscience</i> , 2015, 8, 9-10.	12.9	10
15	High-pressure phase transitions of anorthosite crust in the Earth's deep mantle. <i>Geoscience Frontiers</i> , 2018, 9, 1859-1870.	8.4	10
16	Effects of pressure and temperature on the silicon diffusivity of pyrope-rich garnet. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 226, 28-38.	1.9	6
17	Growth kinetics of forsterite reaction rims at high-pressure. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 257, 220-229.	1.9	6
18	High-pressure phase relation of KREEP basalts: A clue for finding the lost Hadean crust?. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 274, 184-194.	1.9	6

#	ARTICLE	IF	CITATIONS
19	New aluminium hydroxide at multimegabar pressures: Implications for water reservoirs in deep planetary interiors. <i>Icarus</i> , 2020, 338, 113539.	2.5	5
20	Chemical Reaction Between Metallic Iron and a Limited Water Supply Under Pressure: Implications for Water Behavior at the Coreâ€Mantle Boundary. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089616.	4.0	3
21	Bridgmanite freezing in shocked meteorites due to amorphizationâ€induced stress. <i>Geophysical Research Letters</i> , 0, , .	4.0	3