Shigehiko Tateno

List of Publications by Year
in descending order

27	1,668	430874 18	526287 27
papers	citations	h-index	g-index

28	28	28	1348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Structure of Iron in Earthâ€™s Inner Core. Science, 2010, 330, 359-361.	12.6	408
2	Spin crossover and iron-rich silicate melt in the Earthâ€™s deep mantle. Nature, 2011, 473, 199-202.	27.8	212
3	Determination of post-perovskite phase transition boundary up to 4400ÂK and implications for thermal structure in Dâ€³ layer. Earth and Planetary Science Letters, 2009, 277, 130-136.	4.4	124
4	Stability and equation of state of MgGeO3post-perovskite phase. American Mineralogist, 2005, 90, 262-265.	1.9	107
5	The structure of Feâ€“Si alloy in Earth's inner core. Earth and Planetary Science Letters, 2015, 418, 11-19.	4.4	77
6	High-pressure behavior of MnGeO3 and CdGeO3 perovskites and the post-perovskite phase transition. Physics and Chemistry of Minerals, 2006, 32, 721-725.	0.8	73
7	Melting experiments on Feâ€“Fe 3 S system to 254 GPa. Earth and Planetary Science Letters, 2017, 464, 135-141.	4.4	73
8	Solubility of FeO in (Mg,Fe)SiO3 perovskite and the post-perovskite phase transition. Physics of the Earth and Planetary Interiors, 2007, 160, 319-325.	1.9	72
9	Phase relations in Mg3Al2Si3O12to 180 GPa: Effect of Al on post-perovskite phase transition. Geophysical Research Letters, 2005, 32, .	4.0	65
10	Phase transition boundary between B1 and B8 structures of FeO up to 210GPa. Physics of the Earth and Planetary Interiors, 2010, 179, 157-163.	1.9	65
11	Melting experiments on peridotite to lowermost mantle conditions. Journal of Geophysical Research: Solid Earth, 2014, 119, 4684-4694.	3.4	65
12	Carbon-depleted outer core revealed by sound velocity measurements of liquid ironâ€“carbon alloy. Nature Communications, 2015, 6, 8942.	12.8	55
13	Structural distortion of CaSnO3 perovskite under pressure and the quenchable post-perovskite phase as a low-pressure analogue to MgSiO3. Physics of the Earth and Planetary Interiors, 2010, 181, 54-59.	1.9	47
14	High pressure generation using double-stage diamond anvil technique: problems and equations of state of rhenium. High Pressure Research, 2018, 38, 107-119.	1.2	39
15	Sound velocity of liquid Feâ€Niâ€S at high pressure. Journal of Geophysical Research: Solid Earth, 2017, 122, 3624-3634.	3.4	32
16	The advanced ion-milling method for preparation of thin film using ion slicer: Application to a sample recovered from diamond-anvil cell. Review of Scientific Instruments, 2009, 80, 013901.	1.3	22
17	Melting experiments on Feâ€“Siâ€“S alloys to core pressures: Silicon in the core?. American Mineralogist, 2018, 103, 742-748.	1.9	22
18	Static compression of B2 KCl to 230 GPa and its P-V-T equation of state. American Mineralogist, 2019, 104, 718-723.	1.9	20

#	Article	IF	Citations
19	Fe₂S: The Most Feâ€Rich Iron Sulfide at the Earth's Inner Core Pressures. Geophysical Research Letters, 2019, 46, 11944-11949.	4.0	17
20	Melting Phase Relations and Element Partitioning in MORB to Lowermost Mantle Conditions. Journal of Geophysical Research: Solid Earth, 2018, 123, 5515-5531.	3.4	15
21	Postâ€Perovskite Phase Transition in the Pyrolitic Lowermost Mantle: Implications for Ubiquitous Occurrence of Postâ€Perovskite Above CMB. Geophysical Research Letters, 2022, 49, .	4.0	11
22	High-pressure phase transitions of anorthosite crust in the Earth's deep mantle. Geoscience Frontiers, 2018, 9, 1859-1870.	8.4	10
23	Siliconâ€Depleted Presentâ€Day Earth's Outer Core Revealed by Sound Velocity Measurements of Liquid Feâ€Si Alloy. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019399.	3.4	10
24	Boron-doped diamond as a new heating element for internal-resistive heated diamond-anvil cell. High Pressure Research, 2018, 38, 120-135.	1.2	8
25	Experimental Determination of Eutectic Liquid Compositions in the MgOâ€SiO₂ System to the Lowermost Mantle Pressures. Geophysical Research Letters, 2018, 45, 9552-9558.	4.0	8
26	High-pressure phase relation of KREEP basalts: A clue for finding the lost Hadean crust?. Physics of the Earth and Planetary Interiors, 2018, 274, 184-194.	1.9	6
27	New pressure-induced phase transition to Co2Si-type Fe2P. American Mineralogist, 2020, 105, 1752-1755.	1.9	5