## Kenji Ohta

## List of Publications by Citations

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44 1,410 20 37 g-index

48 1,621 5.3 4.46 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
44	The high conductivity of iron and thermal evolution of the Earth core. <i>Physics of the Earth and Planetary Interiors</i> , <b>2013</b> , 224, 88-103	2.3	209
43	Experimental determination of the electrical resistivity of iron at Earth's core conditions. <i>Nature</i> , <b>2016</b> , 534, 95-8	50.4	164
42	The electrical conductivity of post-perovskite in Earth's D'' layer. <i>Science</i> , <b>2008</b> , 320, 89-91	33.3	108
41	Phase transitions in pyrolite and MORB at lowermost mantle conditions: Implications for a MORB-rich pile above the corefhantle boundary. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 267, 107-117	<b>,</b> 5.3	97
40	Experimental and theoretical evidence for pressure-induced metallization in FeO with rocksalt-type structure. <i>Physical Review Letters</i> , <b>2012</b> , 108, 026403	7.4	96
39	Lattice thermal conductivity of MgSiO3 perovskite and post-perovskite at the corefhantle boundary. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 349-350, 109-115	5.3	84
38	Phase boundary of hot dense fluid hydrogen. <i>Scientific Reports</i> , <b>2015</b> , 5, 16560	4.9	57
37	Electrical conductivities of pyrolitic mantle and MORB materials up to the lowermost mantle conditions. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 289, 497-502	5.3	52
36	Thermal conductivity of ferropericlase in the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 465, 29-37	5.3	46
35	Pressure-induced reentrant metallic phase in lithium. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	43
34	Experimental evidence of superionic conduction in H2O ice. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 194.	5959	42
33	Thermal diffusivity measurement in a diamond anvil cell using a light pulse thermoreflectance technique. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 024011	2	35
32	Spin crossover, structural change, and metallization in NiAs-type FeO at high pressure. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	29
31	Measurements of lattice thermal conductivity of MgO to core-mantle boundary pressures. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 4542-4547	4.9	28
30	The effect of iron spin transition on electrical conductivity of (Mg,Fe)O magnesiowstite. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2007</b> , 83, 97-100	4	27
29	The electrical resistance measurements of (Mg,Fe)SiO3 perovskite at high pressures and implications for electronic spin transition of iron. <i>Physics of the Earth and Planetary Interiors</i> , <b>2010</b> , 180, 154-158	2.3	25
28	Monazite geochronology and geochemistry of meta-sediments in the Narryer Gneiss Complex, Western Australia: constraints on the tectonothermal history and provenance. <i>Contributions To Mineralogy and Petrology</i> , <b>2010</b> , 160, 803-823	3.5	24

## (2019-2017)

27	The influence of sulfur on the electrical resistivity of hcp iron: Implications for the core conductivity of Mars and Earth. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 8254-8259	4.9	23	
26	Highly conductive iron-rich (Mg,Fe)O magnesiow\(\begin{aligned}\) tite and its stability in the Earth's lower mantle. Journal of Geophysical Research: Solid Earth, 2014, 119, 4656-4665	3.6	22	
25	High-pressure experimental evidence for metal FeO with normal NiAs-type structure. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	21	
24	The effect of iron and aluminum incorporation on lattice thermal conductivity of bridgmanite at the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 474, 25-31	5.3	20	
23	Compression of FeBi⊞ alloys to core pressures. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3686-3692	4.9	19	
22	Resistivity saturation of hcp Fe-Si alloys in an internally heated diamond anvil cell: A key to assessing the Earth's core conductivity. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 543, 116357	5.3	15	
21	Combination of pulsed light heating thermoreflectance and laser-heated diamond anvil cell for in-situ high pressure-temperature thermal diffusivity measurements. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 074901	1.7	14	
20	Electrical resistivity of fcc phase iron hydrides at high pressures and temperatures. <i>Comptes Rendus - Geoscience</i> , <b>2019</b> , 351, 147-153	1.4	14	
19	Thermal conductivity of Fe-bearing post-perovskite in the Earth's lowermost mantle. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 547, 116466	5.3	12	
18	Thermal diffusivities of MgSiO3 and Al-bearing MgSiO3 perovskites. <i>American Mineralogist</i> , <b>2014</b> , 99, 94-97	2.9	11	
17	An Experimental Examination of Thermal Conductivity Anisotropy in hcp Iron. <i>Frontiers in Earth Science</i> , <b>2018</b> , 6,	3.5	11	
16	Effect of spin transition of iron on the thermal conductivity of (Fe, Al)-bearing bridgmanite. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 520, 188-198	5.3	9	
15	Measurements of sound velocity in ironflickel alloys by femtosecond laser pulses in a diamond anvil cell. <i>Physics and Chemistry of Minerals</i> , <b>2018</b> , 45, 589-595	1.6	9	
14	High-temperature electrical resistivity measurements of hcp iron to Mbar pressure in an internally resistive heated diamond anvil cell. <i>High Pressure Research</i> , <b>2019</b> , 39, 579-587	1.6	9	
13	Stability of fcc phase FeH to 137 GPa. American Mineralogist, 2020, 105, 917-921	2.9	8	
12	Lithium polyhydrides synthesized under high pressure and high temperature. <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 1222-1228	2.3	7	
11	Heating of Li in hydrogen: possible synthesis of LiHxIThis paper was presented at the LIIth European High Pressure Research Group (EHPRG 52) Meeting in Lyon (France), 7Il 2 September 2014. View all notes. <i>High Pressure Research</i> , <b>2015</b> , 35, 16-21	1.6	5	
10	Composition and pressure dependence of lattice thermal conductivity of (Mg,Fe)O solid solutions. <i>Comptes Rendus - Geoscience</i> , <b>2019</b> , 351, 229-235	1.4	4	

9	A cylindrical SiC heater for an externally heated diamond anvil cell to 1500 K. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 015119	1.7	3
8	The thermal conductivity of the Earth's core and implications for its thermal and compositional evolution. <i>National Science Review</i> , <b>2021</b> , 8, nwaa303	10.8	1
7	Laboratory-based x-ray computed tomography for 3D imaging of samples in a diamond anvil cell in situ at high pressures. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 093703	1.7	1
6	Anomalous compressibility in (Fe,Al)-bearing bridgmanite: implications for the spin state of iron. <i>Physics and Chemistry of Minerals</i> , <b>2020</b> , 47, 1	1.6	1
5	Measurements of Electrical and Thermal Conductivity of Materials Deep Inside the Earth under High-Pressure Conditions. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2016</b> , 26, 189-195	0	
4	Hydrogen-Storing Salt NaCl(H2) Synthesized at High Pressure and High Temperature. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25074-25080	3.8	
3	Measurements of Electrical Conductivity of (Mg,Fe)SiO3 Post-Perovskite using Laser-Heated Diamond-Anvil Cell. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2008</b> , 18, 260-266	0	
2	Measurement of Lattice Thermal Conductivity of Lower Mantle Minerals under High Pressures using a Pulsed Light Heating Thermoreflectance Technique. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2014</b> , 24, 118-125	Ο	
1	Low-spin ferric iron in primordial bridgmanite crystallized from a deep magma ocean. <i>Scientific Reports</i> , <b>2021</b> , 11, 19471	4.9	