

Kenji Ohta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

1,410
citations

20
h-index

37
g-index

48
ext. papers

1,621
ext. citations

5.3
avg. IF

4.46
L-index

#	Paper	IF	Citations
44	The thermal conductivity of the Earth's core and implications for its thermal and compositional evolution. <i>National Science Review</i> , 2021 , 8, nwaa303	10.8	1
43	A cylindrical SiC heater for an externally heated diamond anvil cell to 1500 K. <i>Review of Scientific Instruments</i> , 2021 , 92, 015119	1.7	3
42	Low-spin ferric iron in primordial bridgmanite crystallized from a deep magma ocean. <i>Scientific Reports</i> , 2021 , 11, 19471	4.9	
41	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> , 2020 , 543, 116357	5.3	15
40	Stability of fcc phase FeH to 137 GPa. <i>American Mineralogist</i> , 2020 , 105, 917-921	2.9	8
39	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> , 2020 , 91, 093703	1.7	1
38	Thermal conductivity of Fe-bearing post-perovskite in the Earth's lowermost mantle. <i>Earth and Planetary Science Letters</i> , 2020 , 547, 116466	5.3	12
37	Anomalous compressibility in (Fe,Al)-bearing bridgmanite: implications for the spin state of iron. <i>Physics and Chemistry of Minerals</i> , 2020 , 47, 1	1.6	1
36	Effect of spin transition of iron on the thermal conductivity of (Fe, Al)-bearing bridgmanite. <i>Earth and Planetary Science Letters</i> , 2019 , 520, 188-198	5.3	9
35	Composition and pressure dependence of lattice thermal conductivity of (Mg,Fe)O solid solutions. <i>Comptes Rendus - Geoscience</i> , 2019 , 351, 229-235	1.4	4
34	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> , 2019 , 90, 074901	1.7	14
33	Hydrogen-Storing Salt NaCl(H ₂) Synthesized at High Pressure and High Temperature. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25074-25080	3.8	
32	High-temperature electrical resistivity measurements of hcp iron to Mbar pressure in an internally resistive heated diamond anvil cell. <i>High Pressure Research</i> , 2019 , 39, 579-587	1.6	9
31	Electrical resistivity of fcc phase iron hydrides at high pressures and temperatures. <i>Comptes Rendus - Geoscience</i> , 2019 , 351, 147-153	1.4	14
30	Measurements of sound velocity in iron-Nickel alloys by femtosecond laser pulses in a diamond anvil cell. <i>Physics and Chemistry of Minerals</i> , 2018 , 45, 589-595	1.6	9
29	An Experimental Examination of Thermal Conductivity Anisotropy in hcp Iron. <i>Frontiers in Earth Science</i> , 2018 , 6,	3.5	11
28	Thermal conductivity of ferropicrinite in the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2017 , 465, 29-37	5.3	46

27	Lithium polyhydrides synthesized under high pressure and high temperature. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1222-1228	2.3	7
26	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> , 2017 , 474, 25-31	5.3	20
25	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> , 2017 , 44, 8254-8259	4.9	23
24	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> , 2016 , 26, 189-195	0	
23	Experimental determination of the electrical resistivity of iron at Earth's core conditions. <i>Nature</i> , 2016 , 534, 95-8	50.4	164
22	Compression of FeSi alloys to core pressures. <i>Geophysical Research Letters</i> , 2016 , 43, 3686-3692	4.9	19
21	Heating of Li in hydrogen: possible synthesis of LiHx. This paper was presented at the 11th European High Pressure Research Group (EHPRG 52) Meeting in Lyon (France), 7-12 September 2014. View all notes. <i>High Pressure Research</i> , 2015 , 35, 16-21	1.6	5
20	Phase boundary of hot dense fluid hydrogen. <i>Scientific Reports</i> , 2015 , 5, 16560	4.9	57
19	Measurements of lattice thermal conductivity of MgO to core-mantle boundary pressures. <i>Geophysical Research Letters</i> , 2014 , 41, 4542-4547	4.9	28
18	Highly conductive iron-rich (Mg,Fe)O magnesiowüstite and its stability in the Earth's lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 4656-4665	3.6	22
17	Thermal diffusivities of MgSiO ₃ and Al-bearing MgSiO ₃ perovskites. <i>American Mineralogist</i> , 2014 , 99, 94-97	2.9	11
16	Pressure-induced reentrant metallic phase in lithium. <i>Physical Review B</i> , 2014 , 89,	3.3	43
15	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> , 2014 , 24, 118-125	0	
14	The high conductivity of iron and thermal evolution of the Earth's core. <i>Physics of the Earth and Planetary Interiors</i> , 2013 , 224, 88-103	2.3	209
13	Lattice thermal conductivity of MgSiO ₃ perovskite and post-perovskite at the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2012 , 349-350, 109-115	5.3	84
12	Experimental and theoretical evidence for pressure-induced metallization in FeO with rocksalt-type structure. <i>Physical Review Letters</i> , 2012 , 108, 026403	7.4	96
11	Experimental evidence of superionic conduction in H ₂ O ice. <i>Journal of Chemical Physics</i> , 2012 , 137, 194505	9.5	42
10	Spin crossover, structural change, and metallization in NiAs-type FeO at high pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	29

9	Thermal diffusivity measurement in a diamond anvil cell using a light pulse thermoreflectance technique. <i>Measurement Science and Technology</i> , 2011 , 22, 024011	2	35
8	High-pressure experimental evidence for metal FeO with normal NiAs-type structure. <i>Physical Review B</i> , 2010 , 82,	3-3	21
7	Electrical conductivities of pyrolitic mantle and MORB materials up to the lowermost mantle conditions. <i>Earth and Planetary Science Letters</i> , 2010 , 289, 497-502	5-3	52
6	The electrical resistance measurements of (Mg,Fe)SiO ₃ perovskite at high pressures and implications for electronic spin transition of iron. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 180, 154-158	2-3	25
5	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> , 2010 , 160, 803-823	3-5	24
4	Phase transitions in pyrolite and MORB at lowermost mantle conditions: Implications for a MORB-rich pile above the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 107-117	5-3	97
3	The electrical conductivity of post-perovskite in Earth's D'' layer. <i>Science</i> , 2008 , 320, 89-91	33-3	108
2	Measurements of Electrical Conductivity of (Mg,Fe)SiO ₃ Post-Perovskite using Laser-Heated Diamond-Anvil Cell. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2008 , 18, 260-266	0	
1	The effect of iron spin transition on electrical conductivity of (Mg,Fe)O magnesiowüstite. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2007 , 83, 97-100	4	27