

Takashi Yoshino

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144
papers

4,093
citations

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154
ext. papers

4,619
ext. citations

4.8
avg, IF

5.77
L-index

#	Paper	IF	Citations
144	Adiabatic temperature profile in the mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 183, 212-218	21.8	299
143	Hydrous olivine unable to account for conductivity anomaly at the top of the asthenosphere. <i>Nature</i> , 2006 , 443, 973-6	50.4	227
142	Olivine-wadsleyite transition in the system (Mg,Fe) ₂ SiO ₄ . <i>Journal of Geophysical Research</i> , 2004 , 109,		225
141	The effect of water on the electrical conductivity of olivine aggregates and its implications for the electrical structure of the upper mantle. <i>Earth and Planetary Science Letters</i> , 2009 , 288, 291-300	5.3	173
140	Core formation in planetesimals triggered by permeable flow. <i>Nature</i> , 2003 , 422, 154-7	50.4	172
139	Dry mantle transition zone inferred from the conductivity of wadsleyite and ringwoodite. <i>Nature</i> , 2008 , 451, 326-9	50.4	168
138	Laboratory Electrical Conductivity Measurement of Mantle Minerals. <i>Surveys in Geophysics</i> , 2010 , 31, 163-206	7.6	124
137	Electrical Conductivity of Mantle Minerals: Role of Water in Conductivity Anomalies. <i>Annual Review of Earth and Planetary Sciences</i> , 2013 , 41, 605-628	15.3	94
136	Electrical conductivity of basaltic and carbonatite melt-bearing peridotites at high pressures: Implications for melt distribution and melt fraction in the upper mantle. <i>Earth and Planetary Science Letters</i> , 2010 , 295, 593-602	5.3	94
135	Origin of seismic anisotropy in the D' layer inferred from shear deformation experiments on post-perovskite phase. <i>Earth and Planetary Science Letters</i> , 2006 , 252, 372-378	5.3	92
134	Connectivity of molten Fe alloy in peridotite based on in situ electrical conductivity measurements: implications for core formation in terrestrial planets. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 625-643	5.3	72
133	Unstable graphite films on grain boundaries in crustal rocks. <i>Earth and Planetary Science Letters</i> , 2011 , 306, 186-192	5.3	66
132	Phase relations and equation-of-state of aluminous Mg-silicate perovskite and implications for Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 501-516	5.3	65
131	Complete wetting of olivine grain boundaries by a hydrous melt near the mantle transition zone. <i>Earth and Planetary Science Letters</i> , 2007 , 256, 466-472	5.3	64
130	Electrical conductivity anisotropy of deformed talc rocks and serpentinites at 3GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 188, 69-81	2.3	62
129	Electrical conductivity of wadsleyite as a function of temperature and water content. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 174, 10-18	2.3	56
128	Superposition of replacements in the mafic granulites of the Jijal complex of the Kohistan arc, northern Pakistan: dehydration and rehydration within deep arc crust. <i>Lithos</i> , 1998 , 43, 219-234	2.9	56

127	Crustal thickening of the lower crust of the Kohistan arc (N. Pakistan) deduced from Al zoning in clinopyroxene and plagioclase. <i>Journal of Metamorphic Geology</i> , 1998 , 16, 729-748	4.4	54
126	Electrical conductivity of majorite garnet and its implications for electrical structure in the mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2008 , 170, 193-200	2.3	53
125	Effect of temperature, pressure and iron content on the electrical conductivity of olivine and its high-pressure polymorphs. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		52
124	Over 1 Mbar generation in the Kawai-type multianvil apparatus and its application to compression of (Mg _{0.92} Fe _{0.08})SiO ₃ perovskite and stishovite. <i>Physics of the Earth and Planetary Interiors</i> , 2014 , 228, 262-267	2.3	51
123	The temperature-pressure-volume equation of state of platinum. <i>Journal of Applied Physics</i> , 2009 , 105, 013505	2.5	46
122	Crustal Growth by Magmatic Accretion Constrained by Metamorphic P-T Paths and Thermal Models of the Kohistan Arc, NW Himalayas. <i>Journal of Petrology</i> , 2004 , 45, 2287-2302	3.9	46
121	Electrical conductivity of enstatite as a function of water content: Implications for the electrical structure in the upper mantle. <i>Earth and Planetary Science Letters</i> , 2012 , 357-358, 11-20	5.3	42
120	Grain boundary wetness of texturally equilibrated rocks, with implications for seismic properties of the upper mantle. <i>Journal of Geophysical Research</i> , 2005 , 110,		42
119	Electrical conductivity of brine-bearing quartzite at 1 GPa: implications for fluid content and salinity of the crust. <i>Earth, Planets and Space</i> , 2014 , 66,	2.9	41
118	Electrical conductivity of partial molten carbonate peridotite. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 194-195, 1-9	2.3	41
117	Pressure generation and investigation of the post-perovskite transformation in MgGeO ₃ by squeezing the Kawai-cell equipped with sintered diamond anvils. <i>Earth and Planetary Science Letters</i> , 2010 , 293, 84-89	5.3	41
116	High-pressure phase transitions in FeCr ₂ O ₄ and structure analysis of new post-spinel FeCr ₂ O ₄ and Fe ₂ Cr ₂ O ₅ phases with meteoritical and petrological implications. <i>American Mineralogist</i> , 2014 , 99, 1788-1797	3.9	38
115	Connectivity of aqueous fluid in eclogite and its implications for fluid migration in the Earth's interior. <i>Journal of Geophysical Research</i> , 2003 , 108,		38
114	Effect of iron content on electrical conductivity of ringwoodite, with implications for electrical structure in the transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 174, 3-9	2.3	37
113	Re-evaluation of electrical conductivity of anhydrous and hydrous wadsleyite. <i>Earth and Planetary Science Letters</i> , 2012 , 337-338, 56-67	5.3	35
112	Effect of iron content on electrical conductivity of ferropericlase with implications for the spin transition pressure. <i>Journal of Geophysical Research</i> , 2011 , 116,		34
111	Electrical conductivity anisotropy in partially molten peridotite under shear deformation. <i>Earth and Planetary Science Letters</i> , 2014 , 405, 98-109	5.3	33
110	Well-wetted olivine grain boundaries in partially molten peridotite in the asthenosphere. <i>Earth and Planetary Science Letters</i> , 2009 , 283, 167-173	5.3	33

109	Texture of (Mg,Fe)SiO ₃ perovskite and ferro-periclase aggregate: Implications for rheology of the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 174, 138-144	2.3	33
108	Molecular dynamics simulation and electrical conductivity measurement of Na ₂ OBSiO ₂ melt under high pressure; relationship between its structure and properties. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 3109-3118	3.9	32
107	P-V-T relations of MgSiO ₃ perovskite determined by in situ X-ray diffraction using a large-volume high-pressure apparatus. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	31
106	Electrical conductivity of mantle clinopyroxene as a function of water content and its implication on electrical structure of uppermost mantle. <i>Earth and Planetary Science Letters</i> , 2016 , 447, 1-9	5.3	28
105	Spin transition of ferric iron in the NAL phase: Implications for the seismic heterogeneities of subducted slabs in the lower mantle. <i>Earth and Planetary Science Letters</i> , 2016 , 434, 91-100	5.3	28
104	Experimental determination of carbon isotope fractionation between iron carbide melt and carbon: 12C-enriched carbon in the Earth's core?. <i>Earth and Planetary Science Letters</i> , 2011 , 310, 340-348	5.3	28
103	No interconnection of ferro-periclase in post-spinel phase inferred from conductivity measurement. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	28
102	P-V-T equation of state for Iron up to 80 GPa and 1900 K using the Kawai-type high pressure apparatus equipped with sintered diamond anvils. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	27
101	Grain growth kinetics of CaIrO ₃ perovskite and post-perovskite, with implications for rheology of D? layer. <i>Earth and Planetary Science Letters</i> , 2007 , 255, 485-493	5.3	26
100	Aqueous fluid connectivity in pyrope aggregates: water transport into the deep mantle by a subducted oceanic crust without any hydrous minerals. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 895-903	5.3	26
99	H-D Interdiffusion in Single-Crystal Olivine: Implications for Electrical Conductivity in the Upper Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 5696-5707	3.6	25
98	Electrical conductivity model of Al-bearing bridgmanite with implications for the electrical structure of the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2016 , 434, 208-219	5.3	25
97	Electrical conductivity of albite(quartz)water and albitewaterNaCl systems and its implication to the high conductivity anomalies in the continental crust. <i>Earth and Planetary Science Letters</i> , 2015 , 412, 1-9	5.3	25
96	Wetting properties of anorthite aggregates: Implications for fluid connectivity in continental lower crust. <i>Journal of Geophysical Research</i> , 2002 , 107, ECV 10-1-ECV 10-8		25
95	Electrical conductivity of fluid-bearing quartzite under lower crustal conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 198-199, 1-8	2.3	24
94	Determination of high-pressure phase equilibria of Fe ₂ O ₃ using the Kawai-type apparatus equipped with sintered diamond anvils. <i>American Mineralogist</i> , 2009 , 94, 205-209	2.9	24
93	Phase relations of Fe ₃ C and Fe ₇ C ₃ up to 185 GPa and 5200 K: Implication for the stability of iron carbide in the Earth's core. <i>Geophysical Research Letters</i> , 2016 , 43, 12,415	4.9	24
92	Hydrogen self-diffusivity in single crystal ringwoodite: Implications for water content and distribution in the mantle transition zone. <i>Geophysical Research Letters</i> , 2015 , 42, 6582-6589	4.9	22

91	Electrical conductivity of magnetite-bearing serpentinite during shear deformation. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	22
90	Electrical conductivity of dense hydrous magnesium silicates with implication for conductivity in the stagnant slab. <i>Earth and Planetary Science Letters</i> , 2013 , 369-370, 239-247	5.3	22
89	Effect of faceting on pore geometry in texturally equilibrated rocks: implications for low permeability at low porosity. <i>Contributions To Mineralogy and Petrology</i> , 2006 , 152, 169-186	3.5	22
88	The CaCO ₃ -Fe interaction: Kinetic approach for carbonate subduction to the deep Earth's mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2016 , 259, 1-9	2.3	21
87	Pressure generation to 65 GPa in a Kawai-type multi-anvil apparatus with tungsten carbide anvils. <i>High Pressure Research</i> , 2017 , 37, 507-515	1.6	21
86	Dehydration of phengite inferred by electrical conductivity measurements: Implication for the high conductivity anomalies relevant to the subduction zones. <i>Geology</i> , 2018 , 46, 11-14	5	21
85	Effect of graphite on the electrical conductivity of the lithospheric mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 23-40	3.6	20
84	High-pressure generation in the Kawai-type multi-anvil apparatus equipped with tungsten-carbide anvils and sintered-diamond anvils, and X-ray observation on CaSnO ₃ and (Mg,Fe)SiO ₃ . <i>Comptes Rendus - Geoscience</i> , 2019 , 351, 253-259	1.4	20
83	Pressure-induced enhancement of proton conduction in brucite. <i>Geophysical Research Letters</i> , 2014 , 41, 813-819	4.9	20
82	P-V-T relations of wadsleyite determined by in situ X-ray diffraction in a large-volume high-pressure apparatus. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	20
81	Electrical Resistivity of Fe-C Alloy at High Pressure: Effects of Carbon as a Light Element on the Thermal Conductivity of the Earth's Core. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 3564-3577	2.6	19
80	Reply to Comments on Electrical conductivity of wadsleyite as a function of temperature and water content by Manthilake et al.. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 174, 22-23	2.3	19
79	Origin of scapolite in deep-seated metagabbros of the Kohistan Arc, NW Himalayas. <i>Contributions To Mineralogy and Petrology</i> , 2001 , 140, 511-531	3.5	19
78	Anisotropy of synthetic quartz electrical conductivity at high pressure and temperature. <i>Journal of Geophysical Research</i> , 2010 , 115,		18
77	Synthesis of boron-doped diamond and its application as a heating material in a multi-anvil high-pressure apparatus. <i>Review of Scientific Instruments</i> , 2017 , 88, 093904	1.7	17
76	Growth kinetics of FeS melt in partially molten peridotite: An analog for core-forming processes. <i>Earth and Planetary Science Letters</i> , 2005 , 235, 453-468	5.3	17
75	Oligomerization and carbonization of polycyclic aromatic hydrocarbons at high pressure and temperature. <i>Carbon</i> , 2015 , 84, 225-235	10.4	16
74	Impurity Resistivity of fcc and hcp Fe-Based Alloys: Thermal Stratification at the Top of the Core of Super-Earths. <i>Frontiers in Earth Science</i> , 2018 , 6,	3.5	15

73	Effect of iron content on thermal conductivity of olivine with implications for cooling history of rocky planets. <i>Earth and Planetary Science Letters</i> , 2019 , 519, 109-119	5.3	14
72	Electrical conductivity of the oceanic asthenosphere and its interpretation based on laboratory measurements. <i>Tectonophysics</i> , 2017 , 717, 162-181	3.1	14
71	Pressure dependence of electrical conductivity in forsterite. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 158-171	3.6	13
70	Interconnection of ferro-periclase controls subducted slab morphology at the top of the lower mantle. <i>Earth and Planetary Science Letters</i> , 2014 , 403, 352-357	5.3	13
69	Crossroads in Earth and Planetary Materials. H-D interdiffusion in brucite at pressures up to 15 GPa. <i>American Mineralogist</i> , 2013 , 98, 1919-1929	2.9	13
68	An experimental kinetic study on the structural evolution of natural carbonaceous material to graphite. <i>American Mineralogist</i> , 2017 , 102, 135-148	2.9	12
67	Graphite-Boron composite heater in a Kawai-type apparatus: the inhibitory effect of boron oxide and countermeasures. <i>High Pressure Research</i> , 2016 , 36, 105-120	1.6	12
66	Supercritical fluid in the mantle transition zone deduced from HD interdiffusion of wadsleyite. <i>Earth and Planetary Science Letters</i> , 2018 , 484, 309-317	5.3	11
65	Effects of pressure and water on electrical conductivity of carbonate melt with implications for conductivity anomaly in continental mantle lithosphere. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 281, 8-16	2.3	11
64	Effect of temperature, pressure and iron content on the electrical conductivity of orthopyroxene. <i>Contributions To Mineralogy and Petrology</i> , 2016 , 171, 1	3.5	11
63	Optical signatures of low spin Fe ³⁺ in NAL at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 3565-3573	3.6	11
62	Fate of water in subducted hydrous sediments deduced from stability fields of FeOOH and AlOOH up to 20 GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2019 , 294, 106295	2.3	10
61	Measurement of thermal conductivity of omphacite, jadeite, and diopside up to 14 GPa and 1000 K: Implication for the role of eclogite in subduction slab. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 6277-6287	3.6	10
60	Electrical conductivity of stishovite as a function of water content. <i>Physics of the Earth and Planetary Interiors</i> , 2014 , 227, 48-54	2.3	10
59	Electrical conductivity measurements of periclase under high pressure and high temperature. <i>Physica B: Condensed Matter</i> , 2010 , 405, 53-56	2.8	10
58	Grain growth of Biron: Implications to grain size and its evolution in the Earth's inner core. <i>Earth and Planetary Science Letters</i> , 2017 , 459, 238-243	5.3	9
57	P-V-T relations of Ca ₃ (PO ₄) ₂ tuite determined by in situ X-ray diffraction in a large-volume high-pressure apparatus. <i>American Mineralogist</i> , 2013 , 98, 1811-1816	2.9	9
56	Phase boundary between perovskite and post-perovskite structures in MnGeO ₃ determined by in situ X-ray diffraction measurements using sintered diamond anvils. <i>American Mineralogist</i> , 2011 , 96, 89-92 ⁹		9

55	High-pressure X-ray diffraction study and thermoelectric measurements of Mg ₂ Si. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 1847-1849		8
54	Electrical conductivity of melts: implications for conductivity anomalies in the Earth's mantle. <i>National Science Review</i> , 2021 , 8, nwab064	10.8	8
53	Martian core heat flux: Electrical resistivity and thermal conductivity of liquid Fe at martian core P-T conditions. <i>Icarus</i> , 2021 , 360, 114367	3.8	8
52	Two-stage spin transition of iron in FeAl-bearing phase D at lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 6411-6420	3.6	8
51	The Effect of Water on Fe-Mg Interdiffusion Rates in Ringwoodite and Implications for the Electrical Conductivity in the Mantle Transition Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 2510-2524	3.6	6
50	Heterogeneity of Electrical Conductivity in the Oceanic Upper Mantle 2015 , 173-204		6
49	Pressure dependence of graphitization: implications for rapid recrystallization of carbonaceous material in a subduction zone. <i>Contributions To Mineralogy and Petrology</i> , 2020 , 175, 1	3.5	6
48	Growth of ringwoodite reaction rims from MgSiO ₃ perovskite and periclase at 22.5 GPa and 1,800 °C. <i>Physics and Chemistry of Minerals</i> , 2014 , 41, 555-567	1.6	6
47	Resistivity, Seebeck coefficient, and thermal conductivity of platinum at high pressure and temperature. <i>Physical Review B</i> , 2019 , 100,	3.3	6
46	Negative activation volume of oxygen self-diffusion in forsterite. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 275, 1-8	2.3	5
45	Phase transition of wadsleyite-ringwoodite in the Mg ₂ SiO ₄ -Fe ₂ SiO ₄ system. <i>American Mineralogist</i> , 2019 , 104, 588-594	2.9	5
44	High pressure study of transition metal monoxides MnO and CoO: Structure and electrical resistance. <i>Physics of the Earth and Planetary Interiors</i> , 2014 , 228, 170-175	2.3	5
43	High-pressure synthesis, crystal structure and magnetic property of ilmenite-type FeGeO ₃ . <i>Journal of Solid State Chemistry</i> , 2013 , 198, 520-524	3.3	5
42	Spin transition of ferric iron in the calcium-ferrite type aluminous phase. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 5935-5944	3.6	5
41	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	2.3	5
40	Phase boundary between ilmenite and perovskite structures in MnGeO ₃ determined by in situ X-ray diffraction measurements. <i>Physics and Chemistry of Minerals</i> , 2007 , 34, 269-273	1.6	5
39	Grain boundary diffusion of W in lower mantle phase with implications for isotopic heterogeneity in oceanic island basalts by core-mantle interactions. <i>Earth and Planetary Science Letters</i> , 2020 , 530, 115887	5.3	5
38	The effects of ferromagnetism and interstitial hydrogen on the equation of states of hcp and dhcp FeH _x : Implications for the Earth's inner core age. <i>American Mineralogist</i> , 2018 , 103, 1271-1281	2.9	5

37	Fluorine solubility in bridgmanite: A potential fluorine reservoir in the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2018 , 504, 106-114	5.3	5
36	Pressure dependence of transverse acoustic phonon energy in ferropericlase across the spin transition. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 245401	1.8	4
35	Electrical resistivity of solid and liquid Pt: Insight into electrical resistivity of ϵ -Fe. <i>Earth and Planetary Science Letters</i> , 2020 , 544, 116380	5.3	4
34	Technique, cell assembly, and measurement of T-dependent electrical resistivity of liquid Fe devoid of contamination at P, T conditions. <i>Review of Scientific Instruments</i> , 2020 , 91, 023903	1.7	4
33	Elasticity of single-crystal NAL phase at high pressure: A potential source of the seismic anisotropy in the lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 5696-5707	3.6	4
32	Penetration of molten iron alloy into the lower mantle phase. <i>Comptes Rendus - Geoscience</i> , 2019 , 351, 171-181	1.4	4
31	Static compression of $(\text{Mg}_{0.83}\text{Fe}_{0.17})\text{O}$ and $(\text{Mg}_{0.75}\text{Fe}_{0.25})\text{O}$ ferropericlase up to 58 GPa at 300, 700, and 1100 K. <i>American Mineralogist</i> , 2012 , 97, 176-183	2.9	4
30	Electrical conductivity of the major upper mantle minerals: a review. <i>Russian Geology and Geophysics</i> , 2009 , 50, 1139-1145	1	4
29	Correction to P-V-T relations of the MgSiO_3 perovskite determined by in situ X-ray diffraction using a large-volume high-pressure apparatus. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	4
28	Temperature-enhanced electrical conductivity anisotropy in partially molten peridotite under shear deformation. <i>Earth and Planetary Science Letters</i> , 2020 , 530, 115922	5.3	4
27	Effect of water on the magnesite-iron interaction, with implications for the fate of carbonates in the deep mantle. <i>Lithos</i> , 2019 , 326-327, 435-445	2.9	4
26	High pressure generation and investigation of the spin transition of ferropericlase $(\text{Mg}_{0.83}\text{Fe}_{0.17})\text{O}$. <i>Journal of Physics: Conference Series</i> , 2010 , 215, 012099	0.3	3
25	Thermal expansion of natural mantle spinel using in situ synchrotron X-ray powder diffraction. <i>Journal of Materials Science</i> , 2019 , 54, 139-148	4.3	3
24	Fe-Mg interdiffusion in wadsleyite and implications for water content of the transition zone. <i>Earth and Planetary Science Letters</i> , 2021 , 554, 116672	5.3	3
23	Electrical Conductivity Measurement 2018 , 281-319		2
22	Mössbauer spectrum of high-pressure synthesized ilmenite-type FeGeO_3 . <i>Hyperfine Interactions</i> , 2014 , 226, 275-280	0.8	2
21	Experimental determination of carbon isotope fractionation between graphite and carbonated silicate melt under upper mantle conditions. <i>Earth and Planetary Science Letters</i> , 2014 , 392, 86-93	5.3	2
20	Corrigendum to "The effect of water on the electrical conductivity of olivine aggregates and its implications for the electrical structure in the upper mantle" [Earth Planet. Sci. Lett. 288 (2009) 291-300]. <i>Earth and Planetary Science Letters</i> , 2014 , 391, 135-136	5.3	2

19	Grain growth kinetics of majorite and stishovite in MORB. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 183, 183-189	2.3	2
18	Studies of Deep Earth Rheology Based on High-Pressure Deformation Experiments Using D111-Type Apparatus. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2020 , 30, 78-84	0	2
17	Electrical conductivity of diaspore, α -AlOOH and β -FeOOH. <i>American Mineralogist</i> , 2021 , 106, 774-781	2.9	2
16	Short-period cyclic loading system for in situ X-ray observation of anelastic properties at high pressure. <i>Review of Scientific Instruments</i> , 2016 , 87, 105106	1.7	2
15	Electrical Conductivity of Omphacite as a Function of Water Content and Implications for High Conductivity Anomalies in the Dabie-Sulu UHPM Belts and Tibet. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 12523-12536	3.6	2
14	Measurement of the Seebeck coefficient under high pressure by dual heating. <i>Review of Scientific Instruments</i> , 2020 , 91, 035115	1.7	1
13	Major element composition of an Early Enriched Reservoir: constraints from $^{142}\text{Nd}/^{144}\text{Nd}$ isotope systematics in the early Earth and high-pressure melting experiments of a primitive peridotite. <i>Progress in Earth and Planetary Science</i> , 2016 , 3,	3.9	1
12	Reply to the comment on: Carbon isotope fractionation in the FeO system at HPHT experiments by Reutsky and Borzdov. <i>Earth and Planetary Science Letters</i> , 2013 , 368, 222-224	5.3	1
11	Electrical conductivity of mantle peridotite at the uppermost lower mantle condition. <i>Journal of Physics: Conference Series</i> , 2010 , 215, 012102	0.3	1
10	Incorporation mechanism of Fe and Al into bridgmanite in a subducting mid-ocean ridge basalt and its crystal chemistry. <i>Scientific Reports</i> , 2021 , 11, 22839	4.9	1
9	Seismic Attenuation Measurement by Cyclic Loading under High Pressure and Temperature. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2014 , 24, 126-135	0	1
8	Viscosity of bridgmanite determined by in situ stress and strain measurements in uniaxial deformation experiments.. <i>Science Advances</i> , 2022 , 8, eabm1821	14.3	1
7	Partial dehydration of brucite and its implications for water distribution in the subducting oceanic slab. <i>Geoscience Frontiers</i> , 2022 , 13, 101342	6	0
6	Electrical conductivity of olivine, wadsleyite and ringwoodite. <i>Ganseki Kobutsu Kagaku</i> , 2009 , 38, 33-38	0.1	
5	Preliminary reports on in-situ X-ray observation of "post-perovskite" in CaRuO ₃ . <i>Journal of Physics: Conference Series</i> , 2010 , 215, 012096	0.3	
4	Thermal equation of state of F-bearing superhydrous phase B (Mg ₁₀ Si ₃ O ₁₄ (OH,F) ₄): Implications for the transportation of fluorine and water into the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 323, 106824	2.3	
3	Transport Mechanism and Distribution of Melt in Earth and Planetary Interiors. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2019 , 29, 94-102	0	
2	Hydrogen diffusion mechanism in the mantle deduced from H-D interdiffusion in wadsleyite. <i>Earth and Planetary Science Letters</i> , 2021 , 561, 116815	5.3	

- 1 Exploration of the best reference material on anelastic measurement by cyclic loading under high pressure. *High Pressure Research*, **2022**, 42, 14-28 1.6