Takashi Yoshino

List of Publications by Year in Descending Order

144 papers	4,093 citations	33 h-index	58 g-index
154 ext. papers	4,619 ext. citations	4.8 avg, IF	5.77 L-index

#	Paper	IF	Citations
144	Partial dehydration of brucite and its implications for water distribution in the subducting oceanic slab. *Geoscience Frontiers*, **2022**, 13, 101342	6	0
143	Viscosity of bridgmanite determined by in situ stress and strain measurements in uniaxial deformation experiments.. *Science Advances*, **2022**, 8, eabm1821	14.3	1
142	Exploration of the best reference material on anelastic measurement by cyclic loading under high pressure. *High Pressure Research*, **2022**, 42, 14-28	1.6	
141	Thermal equation of state of F-bearing superhydrous phase B (Mg10Si3O14(OH,F)4): Implications for the transportation of fluorine and water into the lower mantle. *Physics of the Earth and Planetary Interiors*, **2021**, 323, 106824	2.3	
140	Incorporation mechanism of Fe and Al into bridgmanite in a subducting mid-ocean ridge basalt and its crystal chemistry. *Scientific Reports*, **2021**, 11, 22839	4.9	1
139	Electrical conductivity of melts: implications for conductivity anomalies in the Earth's mantle. *National Science Review*, **2021**, 8, nwab064	10.8	8
138	Hydrogen diffusion mechanism in the mantle deduced from H-D interdiffusion in wadsleyite. *Earth and Planetary Science Letters*, **2021**, 561, 116815	5.3	
137	Martian core heat flux: Electrical resistivity and thermal conductivity of liquid Fe at martian core P-T conditions. *Icarus*, **2021**, 360, 114367	3.8	8
136	Electrical conductivity of diaspore, □AlOOH and □FeOOH. *American Mineralogist*, **2021**, 106, 774-781	2.9	2
135	Fe□Mg interdiffusion in wadsleyite and implications for water content of the transition zone. *Earth and Planetary Science Letters*, **2021**, 554, 116672	5.3	3
134	Electrical resistivity of solid and liquid Pt: Insight into electrical resistivity of □Fe. *Earth and Planetary Science Letters*, **2020**, 544, 116380	5.3	4
133	Measurement of the Seebeck coefficient under high pressure by dual heating. *Review of Scientific Instruments*, **2020**, 91, 035115	1.7	1
132	Technique, cell assembly, and measurement of T-dependent electrical resistivity of liquid Fe devoid of contamination at P, T conditions. *Review of Scientific Instruments*, **2020**, 91, 023903	1.7	4
131	Pressure dependence of graphitization: implications for rapid recrystallization of carbonaceous material in a subduction zone. *Contributions To Mineralogy and Petrology*, **2020**, 175, 1	3.5	6
130	Studies of Deep Earth Rheology Based on High-Pressure Deformation Experiments Using D111-Type Apparatus. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **2020**, 30, 78-84	0	2
129	Temperature-enhanced electrical conductivity anisotropy in partially molten peridotite under shear deformation. *Earth and Planetary Science Letters*, **2020**, 530, 115922	5.3	4
128	Grain boundary diffusion of W in lower mantle phase with implications for isotopic heterogeneity in oceanic island basalts by core-mantle interactions. *Earth and Planetary Science Letters*, **2020**, 530, 115887	5.3	5

127	The Effect of Water on Fe-Mg Interdiffusion Rates in Ringwoodite and Implications for the Electrical Conductivity in the Mantle Transition Zone. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 2510-2524	3.6	6
126	H-D Interdiffusion in Single-Crystal Olivine: Implications for Electrical Conductivity in the Upper Mantle. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 5696-5707	3.6	25
125	Effect of iron content on thermal conductivity of olivine with implications for cooling history of rocky planets. *Earth and Planetary Science Letters*, **2019**, 519, 109-119	5.3	14
124	High-pressure generation in the Kawai-type multianvil apparatus equipped with tungsten-carbide anvils and sintered-diamond anvils, and X-ray observation on CaSnO3 and (Mg,Fe)SiO3. *Comptes Rendus - Geoscience*, **2019**, 351, 253-259	1.4	20
123	Penetration of molten iron alloy into the lower mantle phase. *Comptes Rendus - Geoscience*, **2019**, 351, 171-181	1.4	4
122	Fate of water in subducted hydrous sediments deduced from stability fields of FeOOH and AlOOH up to 20 GPa. *Physics of the Earth and Planetary Interiors*, **2019**, 294, 106295	2.3	10
121	Phase transition of wadsleyite-ringwoodite in the Mg2SiO4-Fe2SiO4 system. *American Mineralogist*, **2019**, 104, 588-594	2.9	5
120	Transport Mechanism and Distribution of Melt in Earth and Planetary Interiors. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **2019**, 29, 94-102	0	
119	Electrical Conductivity of Omphacite as a Function of Water Content and Implications for High Conductivity Anomalies in the Dabie-Sulu UHPM Belts and Tibet. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 12523-12536	3.6	2
118	Resistivity, Seebeck coefficient, and thermal conductivity of platinum at high pressure and temperature. *Physical Review B*, **2019**, 100,	3.3	6
117	Effect of water on the magnesite-iron interaction, with implications for the fate of carbonates in the deep mantle. *Lithos*, **2019**, 326-327, 435-445	2.9	4
116	Thermal expansion of natural mantle spinel using in situ synchrotron X-ray powder diffraction. *Journal of Materials Science*, **2019**, 54, 139-148	4.3	3
115	Negative activation volume of oxygen self-diffusion in forsterite. *Physics of the Earth and Planetary Interiors*, **2018**, 275, 1-8	2.3	5
114	Supercritical fluid in the mantle transition zone deduced from HD interdiffusion of wadsleyite. *Earth and Planetary Science Letters*, **2018**, 484, 309-317	5.3	11
113	Effects of pressure and water on electrical conductivity of carbonate melt with implications for conductivity anomaly in continental mantle lithosphere. *Physics of the Earth and Planetary Interiors*, **2018**, 281, 8-16	2.3	11
112	Electrical Conductivity Measurement **2018**, 281-319		2
111	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. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 3564-3577	3.6	19
110	Dehydration of phengite inferred by electrical conductivity measurements: Implication for the high conductivity anomalies relevant to the subduction zones. *Geology*, **2018**, 46, 11-14	5	21

109	The effects of ferromagnetism and interstitial hydrogen on the equation of states of hcp and dhcp FeHx: Implications for the Earth's inner core age. *American Mineralogist*, **2018**, 103, 1271-1281	2.9	5
108	Impurity Resistivity of fcc and hcp Fe-Based Alloys: Thermal Stratification at the Top of the Core of Super-Earths. *Frontiers in Earth Science*, **2018**, 6,	3.5	15
107	Fluorine solubility in bridgmanite: A potential fluorine reservoir in the Earth's mantle. *Earth and Planetary Science Letters*, **2018**, 504, 106-114	5.3	5
106	An experimental kinetic study on the structural evolution of natural carbonaceous material to graphite. *American Mineralogist*, **2017**, 102, 135-148	2.9	12
105	Pressure dependence of transverse acoustic phonon energy in ferropericlase across the spin transition. *Journal of Physics Condensed Matter*, **2017**, 29, 245401	1.8	4
104	Grain growth of iron: Implications to grain size and its evolution in the Earth's inner core. *Earth and Planetary Science Letters*, **2017**, 459, 238-243	5.3	9
103	Effect of graphite on the electrical conductivity of the lithospheric mantle. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 23-40	3.6	20
102	Pressure dependence of electrical conductivity in forsterite. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 158-171	3.6	13
101	Synthesis of boron-doped diamond and its application as a heating material in a multi-anvil high-pressure apparatus. *Review of Scientific Instruments*, **2017**, 88, 093904	1.7	17
100	Pressure generation to 65 GPa in a Kawai-type multi-anvil apparatus with tungsten carbide anvils. *High Pressure Research*, **2017**, 37, 507-515	1.6	21
99	Optical signatures of low spin Fe3+ in NAL at high pressure. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 3565-3573	3.6	11
98	Electrical conductivity of the oceanic asthenosphere and its interpretation based on laboratory measurements. *Tectonophysics*, **2017**, 717, 162-181	3.1	14
97	Spin transition of ferric iron in the calcium-ferrite type aluminous phase. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 5935-5944	3.6	5
96	The CaCO3Fe interaction: Kinetic approach for carbonate subduction to the deep Earth's mantle. *Physics of the Earth and Planetary Interiors*, **2016**, 259, 1-9	2.3	21
95	Elasticity of single-crystal NAL phase at high pressure: A potential source of the seismic anisotropy in the lower mantle. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 5696-5707	3.6	4
94	Effect of temperature, pressure and iron content on the electrical conductivity of orthopyroxene. *Contributions To Mineralogy and Petrology*, **2016**, 171, 1	3.5	11
93	Major element composition of an Early Enriched Reservoir: constraints from 142Nd/144Nd isotope systematics in the early Earth and high-pressure melting experiments of a primitive peridotite. *Progress in Earth and Planetary Science*, **2016**, 3,	3.9	1
92	Electrical conductivity of mantle clinopyroxene as a function of water content and its implication on electrical structure of uppermost mantle. *Earth and Planetary Science Letters*, **2016**, 447, 1-9	5.3	28

91	Spin transition of ferric iron in the NAL phase: Implications for the seismic heterogeneities of subducted slabs in the lower mantle. *Earth and Planetary Science Letters*, **2016**, 434, 91-100	5.3	28
90	Graphite–boron composite heater in a Kawai-type apparatus: the inhibitory effect of boron oxide and countermeasures. *High Pressure Research*, **2016**, 36, 105-120	1.6	12
89	Electrical conductivity model of Al-bearing bridgmanite with implications for the electrical structure of the Earth's lower mantle. *Earth and Planetary Science Letters*, **2016**, 434, 208-219	5.3	25
88	Phase relations of Fe3C and Fe7C3 up to 185 GPa and 5200 K: Implication for the stability of iron carbide in the Earth's core. *Geophysical Research Letters*, **2016**, 43, 12,415	4.9	24
87	Short-period cyclic loading system for in situ X-ray observation of anelastic properties at high pressure. *Review of Scientific Instruments*, **2016**, 87, 105106	1.7	2
86	Two-stage spin transition of iron in FeAl-bearing phase D at lower mantle. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 6411-6420	3.6	8
85	Heterogeneity of Electrical Conductivity in the Oceanic Upper Mantle **2015**, 173-204		6
84	Oligomerization and carbonization of polycyclic aromatic hydrocarbons at high pressure and temperature. *Carbon*, **2015**, 84, 225-235	10.4	16
83	Hydrogen self-diffusivity in single crystal ringwoodite: Implications for water content and distribution in the mantle transition zone. *Geophysical Research Letters*, **2015**, 42, 6582-6589	4.9	22
82	Electrical conductivity of albite–(quartz)–water and albite–water–NaCl systems and its implication to the high conductivity anomalies in the continental crust. *Earth and Planetary Science Letters*, **2015**, 412, 1-9	5.3	25
81	Mössbauer spectrum of high-pressure synthesized ilmenite-type FeGeO3. *Hyperfine Interactions*, **2014**, 226, 275-280	0.8	2
80	Interconnection of ferro-periclase controls subducted slab morphology at the top of the lower mantle. *Earth and Planetary Science Letters*, **2014**, 403, 352-357	5.3	13
79	High-pressure phase transitions in FeCr2O4 and structure analysis of new post-spinel FeCr2O4 and Fe2Cr2O5 phases with meteoritical and petrological implications. *American Mineralogist*, **2014**, 99, 1788-1797	2.9	38
78	Growth of ringwoodite reaction rims from MgSiO3 perovskite and periclase at 22.5 GPa and 1,800 °C. *Physics and Chemistry of Minerals*, **2014**, 41, 555-567	1.6	6
77	Electrical conductivity of brine-bearing quartzite at 1 GPa: implications for fluid content and salinity of the crust. *Earth, Planets and Space*, **2014**, 66,	2.9	41
76	Experimental determination of carbon isotope fractionation between graphite and carbonated silicate melt under upper mantle conditions. *Earth and Planetary Science Letters*, **2014**, 392, 86-93	5.3	2
75	Over 1 Mbar generation in the Kawai-type multianvil apparatus and its application to compression of (Mg0.92Fe0.08)SiO3 perovskite and stishovite. *Physics of the Earth and Planetary Interiors*, **2014**, 228, 262-267	2.3	51
74	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]. *Earth and Planetary Science Letters*, **2014**, 391, 135-136	5.3	2

73	High pressure study of transition metal monoxides MnO and CoO: Structure and electrical resistance. *Physics of the Earth and Planetary Interiors*, **2014**, 228, 170-175	2.3	5
72	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. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 6277-6287	3.6	10
71	Pressure-induced enhancement of proton conduction in brucite. *Geophysical Research Letters*, **2014**, 41, 813-819	4.9	20
70	Electrical conductivity anisotropy in partially molten peridotite under shear deformation. *Earth and Planetary Science Letters*, **2014**, 405, 98-109	5.3	33
69	Effects of pressure and temperature on the silicon diffusivity of pyrope-rich garnet. *Physics of the Earth and Planetary Interiors*, **2014**, 226, 28-38	2.3	5
68	Electrical conductivity of stishovite as a function of water content. *Physics of the Earth and Planetary Interiors*, **2014**, 227, 48-54	2.3	10
67	Seismic Attenuation Measurement by Cyclic Loading under High Pressure and Temperature. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **2014**, 24, 126-135	0	1
66	High-pressure synthesis, crystal structure and magnetic property of ilmenite-type FeGeO3. *Journal of Solid State Chemistry*, **2013**, 198, 520-524	3.3	5
65	High-pressure X-ray diffraction study and thermoelectric measurements of Mg2Si. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2013**, 10, 1847-1849		8
64	Reply to the comment on: Carbon isotope fractionation in the Fe□ system at HPHT experiments by Reutsky and Borzdov. *Earth and Planetary Science Letters*, **2013**, 368, 222-224	5.3	1
63	Electrical Conductivity of Mantle Minerals: Role of Water in Conductivity Anomalies. *Annual Review of Earth and Planetary Sciences*, **2013**, 41, 605-628	15.3	94
62	Electrical conductivity of dense hydrous magnesium silicates with implication for conductivity in the stagnant slab. *Earth and Planetary Science Letters*, **2013**, 369-370, 239-247	5.3	22
61	Crossroads in Earth and Planetary Materials. H-D interdiffusion in brucite at pressures up to 15 GPa. *American Mineralogist*, **2013**, 98, 1919-1929	2.9	13
60	P-V-T relations of □Ca3(PO4)2 tuite determined by in situ X-ray diffraction in a large-volume high-pressure apparatus. *American Mineralogist*, **2013**, 98, 1811-1816	2.9	9
59	Electrical conductivity of partial molten carbonate peridotite. *Physics of the Earth and Planetary Interiors*, **2012**, 194-195, 1-9	2.3	41
58	Electrical conductivity of fluid-bearing quartzite under lower crustal conditions. *Physics of the Earth and Planetary Interiors*, **2012**, 198-199, 1-8	2.3	24
57	Re-evaluation of electrical conductivity of anhydrous and hydrous wadsleyite. *Earth and Planetary Science Letters*, **2012**, 337-338, 56-67	5.3	35
56	P-V-T equation of state for □ron up to 80 GPa and 1900 K using the Kawai-type high pressure apparatus equipped with sintered diamond anvils. *Geophysical Research Letters*, **2012**, 39,	4.9	27

55	Effect of temperature, pressure and iron content on the electrical conductivity of olivine and its high-pressure polymorphs. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		52
54	Electrical conductivity of enstatite as a function of water content: Implications for the electrical structure in the upper mantle. *Earth and Planetary Science Letters*, **2012**, 357-358, 11-20	5.3	42
53	Molecular dynamics simulation and electrical conductivity measurement of Na2O□SiO2 melt under high pressure; relationship between its structure and properties. *Journal of Non-Crystalline Solids*, **2012**, 358, 3109-3118	3.9	32
52	Electrical conductivity of magnetite-bearing serpentinite during shear deformation. *Geophysical Research Letters*, **2012**, 39,	4.9	22
51	Static compression of (Mg0.83,Fe0.17)O and (Mg0.75,Fe0.25)O ferropericlase up to 58 GPa at 300, 700, and 1100 K. *American Mineralogist*, **2012**, 97, 176-183	2.9	4
50	Effect of iron content on electrical conductivity of ferropericlase with implications for the spin transition pressure. *Journal of Geophysical Research*, **2011**, 116,		34
49	Unstable graphite films on grain boundaries in crustal rocks. *Earth and Planetary Science Letters*, **2011**, 306, 186-192	5.3	66
48	Experimental determination of carbon isotope fractionation between iron carbide melt and carbon: 12C-enriched carbon in the Earth's core?. *Earth and Planetary Science Letters*, **2011**, 310, 340-348	5.3	28
47	Electrical conductivity anisotropy of deformed talc rocks and serpentinites at 3GPa. *Physics of the Earth and Planetary Interiors*, **2011**, 188, 69-81	2.3	62
46	Phase boundary between perovskite and post-perovskite structures in MnGeO3 determined by in situ X-ray diffraction measurements using sintered diamond anvils. *American Mineralogist*, **2011**, 96, 89-92	2.9	9
45	High pressure generation and investigation of the spin transition of ferropericlase (Mg0.83Fe0.17)O. *Journal of Physics: Conference Series*, **2010**, 215, 012099	0.3	3
44	Anisotropy of synthetic quartz electrical conductivity at high pressure and temperature. *Journal of Geophysical Research*, **2010**, 115,		18
43	Pressure generation and investigation of the post-perovskite transformation in MgGeO3 by squeezing the Kawai-cell equipped with sintered diamond anvils. *Earth and Planetary Science Letters*, **2010**, 293, 84-89	5.3	41
42	Electrical conductivity of basaltic and carbonatite melt-bearing peridotites at high pressures: Implications for melt distribution and melt fraction in the upper mantle. *Earth and Planetary Science Letters*, **2010**, 295, 593-602	5.3	94
41	Adiabatic temperature profile in the mantle. *Physics of the Earth and Planetary Interiors*, **2010**, 183, 212-218	2.3	299
40	Grain growth kinetics of majorite and stishovite in MORB. *Physics of the Earth and Planetary Interiors*, **2010**, 183, 183-189	2.3	2
39	Preliminary reports on in-situ X-ray observation of "post-perovskite" in CaRuO3. *Journal of Physics: Conference Series*, **2010**, 215, 012096	0.3	
38	Electrical conductivity of mantle peridotite at the uppermost lower mantle condition. *Journal of Physics: Conference Series*, **2010**, 215, 012102	0.3	1

37	Laboratory Electrical Conductivity Measurement of Mantle Minerals. *Surveys in Geophysics*, **2010**, 31, 163-206	7.6	124
36	Electrical conductivity measurements of periclase under high pressure and high temperature. *Physica B: Condensed Matter*, **2010**, 405, 53-56	2.8	10
35	Electrical conductivity of olivine, wadsleyite and ringwoodite. *Ganseki Kobutsu Kagaku*, **2009**, 38, 33-38	0.1	
34	Determination of high-pressure phase equilibria of Fe2O3 using the Kawai-type apparatus equipped with sintered diamond anvils. *American Mineralogist*, **2009**, 94, 205-209	2.9	24
33	Well-wetted olivine grain boundaries in partially molten peridotite in the asthenosphere. *Earth and Planetary Science Letters*, **2009**, 283, 167-173	5.3	33
32	The effect of water on the electrical conductivity of olivine aggregates and its implications for the electrical structure of the upper mantle. *Earth and Planetary Science Letters*, **2009**, 288, 291-300	5.3	173
31	Electrical conductivity of the major upper mantle minerals: a review. *Russian Geology and Geophysics*, **2009**, 50, 1139-1145	1	4
30	Electrical conductivity of wadsleyite as a function of temperature and water content. *Physics of the Earth and Planetary Interiors*, **2009**, 174, 10-18	2.3	56
29	Effect of iron content on electrical conductivity of ringwoodite, with implications for electrical structure in the transition zone. *Physics of the Earth and Planetary Interiors*, **2009**, 174, 3-9	2.3	37
28	Texture of (Mg,Fe)SiO3 perovskite and ferro-periclase aggregate: Implications for rheology of the lower mantle. *Physics of the Earth and Planetary Interiors*, **2009**, 174, 138-144	2.3	33
27	Reply to Comments on Electrical conductivity of wadsleyite as a function of temperature and water content by Manthilake et al.. *Physics of the Earth and Planetary Interiors*, **2009**, 174, 22-23	2.3	19
26	P-V-T relations of wadsleyite determined by in situ X-ray diffraction in a large-volume high-pressure apparatus. *Geophysical Research Letters*, **2009**, 36,	4.9	20
25	Correction to P-V-T relations of the MgSiO3 perovskite determined by in situ X-ray diffraction using a large-volume high-pressure apparatus *Geophysical Research Letters*, **2009**, 36,	4.9	4
24	The temperature-pressure-volume equation of state of platinum. *Journal of Applied Physics*, **2009**, 105, 013505	2.5	46
23	P-V-T relations of MgSiO3 perovskite determined by in situ X-ray diffraction using a large-volume high-pressure apparatus. *Geophysical Research Letters*, **2009**, 36,	4.9	31
22	Dry mantle transition zone inferred from the conductivity of wadsleyite and ringwoodite. *Nature*, **2008**, 451, 326-9	50.4	168
21	Electrical conductivity of majorite garnet and its implications for electrical structure in the mantle transition zone. *Physics of the Earth and Planetary Interiors*, **2008**, 170, 193-200	2.3	53
20	No interconnection of ferro-periclase in post-spinel phase inferred from conductivity measurement. *Geophysical Research Letters*, **2008**, 35,	4.9	28

19	Phase boundary between ilmenite and perovskite structures in MnGeO3 determined by in situ X-ray diffraction measurements. *Physics and Chemistry of Minerals*, **2007**, 34, 269-273	1.6	5
18	Grain growth kinetics of CaIrO3 perovskite and post-perovskite, with implications for rheology of D? layer. *Earth and Planetary Science Letters*, **2007**, 255, 485-493	5.3	26
17	Complete wetting of olivine grain boundaries by a hydrous melt near the mantle transition zone. *Earth and Planetary Science Letters*, **2007**, 256, 466-472	5.3	64
16	Origin of seismic anisotropy in the D? layer inferred from shear deformation experiments on post-perovskite phase. *Earth and Planetary Science Letters*, **2006**, 252, 372-378	5.3	92
15	Hydrous olivine unable to account for conductivity anomaly at the top of the asthenosphere. *Nature*, **2006**, 443, 973-6	50.4	227
14	Effect of faceting on pore geometry in texturally equilibrated rocks: implications for low permeability at low porosity. *Contributions To Mineralogy and Petrology*, **2006**, 152, 169-186	3.5	22
13	Growth kinetics of FeS melt in partially molten peridotite: An analog for core-forming processes. *Earth and Planetary Science Letters*, **2005**, 235, 453-468	5.3	17
12	Grain boundary wetness of texturally equilibrated rocks, with implications for seismic properties of the upper mantle. *Journal of Geophysical Research*, **2005**, 110,		42
11	Crustal Growth by Magmatic Accretion Constrained by Metamorphic P-T Paths and Thermal Models of the Kohistan Arc, NW Himalayas. *Journal of Petrology*, **2004**, 45, 2287-2302	3.9	46
10	Olivine-wadsleyite transition in the system (Mg,Fe)2SiO4. *Journal of Geophysical Research*, **2004**, 109,		225
9	Connectivity of molten Fe alloy in peridotite based on in situ electrical conductivity measurements: implications for core formation in terrestrial planets. *Earth and Planetary Science Letters*, **2004**, 222, 625-643	5.3	72
8	Phase relations and equation-of-state of aluminous Mg-silicate perovskite and implications for Earth's lower mantle. *Earth and Planetary Science Letters*, **2004**, 222, 501-516	5.3	65
7	Core formation in planetesimals triggered by permeable flow. *Nature*, **2003**, 422, 154-7	50.4	172
6	Connectivity of aqueous fluid in eclogite and its implications for fluid migration in the Earth's interior. *Journal of Geophysical Research*, **2003**, 108,		38
5	Wetting properties of anorthite aggregates: Implications for fluid connectivity in continental lower crust. *Journal of Geophysical Research*, **2002**, 107, ECV 10-1-ECV 10-8		25
4	Aqueous fluid connectivity in pyrope aggregates: water transport into the deep mantle by a subducted oceanic crust without any hydrous minerals. *Earth and Planetary Science Letters*, **2002**, 203, 895-903	5.3	26
3	Origin of scapolite in deep-seated metagabbros of the Kohistan Arc, NW Himalayas. *Contributions To Mineralogy and Petrology*, **2001**, 140, 511-531	3.5	19
2	Crustal thickening of the lower crust of the Kohistan arc (N. Pakistan) deduced from Al zoning in clinopyroxene and plagioclase. *Journal of Metamorphic Geology*, **1998**, 16, 729-748	4.4	54

1	Superposition of replacements in the mafic granulites of the Jijal complex of the Kohistan arc, northern Pakistan: dehydration and rehydration within deep arc crust. *Lithos*, **1998**, 43, 219-234	2.9	56