

S-I Karato

List of Publications by Year in descending order

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148
papers

15,973
citations

26630

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17105

122
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175
all docs

175
docs citations

175
times ranked

6031
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheology of the Upper Mantle: A Synthesis. <i>Science</i> , 1993, 260, 771-778.	12.6	1,483
2	Importance of anelasticity in the interpretation of seismic tomography. <i>Geophysical Research Letters</i> , 1993, 20, 1623-1626.	4.0	763
3	Rheology of synthetic olivine aggregates: Influence of grain size and water. <i>Journal of Geophysical Research</i> , 1986, 91, 8151-8176.	3.3	738
4	Water-Induced Fabric Transitions in Olivine. <i>Science</i> , 2001, 293, 1460-1463.	12.6	730
5	Lattice preferred orientation of olivine aggregates deformed in simple shear. <i>Nature</i> , 1995, 375, 774-777.	27.8	698
6	Whole-mantle convection and the transition-zone water filter. <i>Nature</i> , 2003, 425, 39-44.	27.8	642
7	Geodynamic Significance of Seismic Anisotropy of the Upper Mantle: New Insights from Laboratory Studies. <i>Annual Review of Earth and Planetary Sciences</i> , 2008, 36, 59-95.	11.0	606
8	The role of hydrogen in the electrical conductivity of the upper mantle. <i>Nature</i> , 1990, 347, 272-273.	27.8	551
9	Water distribution across the mantle transition zone and its implications for global material circulation. <i>Earth and Planetary Science Letters</i> , 2011, 301, 413-423.	4.4	498
10	Water content in the transition zone from electrical conductivity of wadsleyite and ringwoodite. <i>Nature</i> , 2005, 434, 746-749.	27.8	366
11	Effects of pressure on high-temperature dislocation creep in olivine. <i>Philosophical Magazine</i> , 2003, 83, 401-414.	1.6	362
12	The effect of water on the electrical conductivity of olivine. <i>Nature</i> , 2006, 443, 977-980.	27.8	344
13	Effect of water and stress on the lattice-preferred orientation of olivine. <i>Tectonophysics</i> , 2006, 421, 1-22.	2.2	323
14	Rheological structure and deformation of subducted slabs in the mantle transition zone: implications for mantle circulation and deep earthquakes. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 127, 83-108.	1.9	299
15	Grain growth kinetics in olivine aggregates. <i>Tectonophysics</i> , 1989, 168, 255-273.	2.2	253
16	On the origin of the asthenosphere. <i>Earth and Planetary Science Letters</i> , 2012, 321-322, 95-103.	4.4	240
17	Dynamic recrystallization of olivine single crystals during high-temperature creep. <i>Geophysical Research Letters</i> , 1980, 7, 649-652.	4.0	216
18	Superplasticity in Earth's Lower Mantle: Evidence from Seismic Anisotropy and Rock Physics. <i>Science</i> , 1995, 270, 458-461.	12.6	187

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19	A new analysis of experimental data on olivine rheology. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	159
20	Mechanisms of shear localization in the continental lithosphere: inference from the deformation microstructures of peridotites from the Ivrea zone, northwestern Italy. <i>Journal of Structural Geology</i> , 1998, 20, 195-209.	2.3	158
21	Diffusion Creep in Perovskite: Implications for the Rheology of the Lower Mantle. <i>Science</i> , 1992, 255, 1238-1240.	12.6	157
22	On the Lehmann discontinuity. <i>Geophysical Research Letters</i> , 1992, 19, 2255-2258.	4.0	157
23	Grain-size evolution in subducted oceanic lithosphere associated with the olivine-spinel transformation and its effects on rheology. <i>Earth and Planetary Science Letters</i> , 1997, 148, 27-43.	4.4	147
24	Rheology of the deep upper mantle and its implications for the preservation of the continental roots: A review. <i>Tectonophysics</i> , 2010, 481, 82-98.	2.2	147
25	Water in the Earth's Interior: Distribution and Origin. <i>Space Science Reviews</i> , 2017, 212, 743-810.	8.1	139
26	Seismic Anisotropy in the Deep Mantle, Boundary Layers and the Geometry of Mantle Convection. <i>Pure and Applied Geophysics</i> , 1998, 151, 565-587.	1.9	134
27	Seismic anisotropy of the Earth's inner core resulting from flow induced by Maxwell stresses. <i>Nature</i> , 1999, 402, 871-873.	27.8	134
28	Melt distribution in mantle rocks deformed in shear. <i>Geophysical Research Letters</i> , 1999, 26, 1505-1508.	4.0	130
29	Inner Core Anisotropy Due to the Magnetic Field-induced Preferred Orientation of Iron. <i>Science</i> , 1993, 262, 1708-1711.	12.6	129
30	Mechanisms and geologic significance of the mid-lithosphere discontinuity in the continents. <i>Nature Geoscience</i> , 2015, 8, 509-514.	12.9	128
31	Long-Term Evolution of the Martian Crust-Mantle System. <i>Space Science Reviews</i> , 2013, 174, 49-111.	8.1	124
32	Shear deformation of bridgmanite and magnesiowüstite aggregates at lower mantle conditions. <i>Science</i> , 2016, 351, 144-147.	12.6	121
33	Electrical conductivity of orthopyroxene: Implications for the water content of the asthenosphere. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2009, 85, 466-475.	3.8	115
34	Toward an experimental study of deep mantle rheology: A new multianvil sample assembly for deformation studies under high pressures and temperatures. <i>Journal of Geophysical Research</i> , 1997, 102, 20111-20122.	3.3	100
35	Electrical conductivity of wadsleyite at high temperatures and high pressures. <i>Earth and Planetary Science Letters</i> , 2009, 287, 277-283.	4.4	99
36	Effects of Water on Seismic Wave Velocities in the Upper Mantle.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1995, 71, 61-66.	3.8	98

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37	The role of recrystallization in the preferred orientation of olivine. <i>Physics of the Earth and Planetary Interiors</i> , 1988, 51, 107-122.	1.9	95
38	Deformation fabrics of the Cima di Gagnone peridotite massif, Central Alps, Switzerland: evidence of deformation at low temperatures in the presence of water. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 43-51.	3.1	95
39	Low differential stress and controlled chemical environment in multianvil high-pressure experiments. <i>Physics and Chemistry of Minerals</i> , 1993, 20, 315.	0.8	91
40	High-pressure rotational deformation apparatus to 15 GPa. <i>Review of Scientific Instruments</i> , 2001, 72, 4207-4211.	1.3	91
41	High and highly anisotropic electrical conductivity of the asthenosphere due to hydrogen diffusion in olivine. <i>Earth and Planetary Science Letters</i> , 2014, 408, 79-86.	4.4	91
42	Ultramafic pseudotachylite from the Balmuccia peridotite, Ivrea-Verbano zone, northern Italy. <i>Tectonophysics</i> , 1995, 242, 313-328.	2.2	89
43	On the separation of crustal component from subducted oceanic lithosphere near the 660 km discontinuity. <i>Physics of the Earth and Planetary Interiors</i> , 1997, 99, 103-111.	1.9	88
44	Stress, strain, and B-type olivine fabric in the fore-arc mantle: Sensitivity tests using high-resolution steady-state subduction zone models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	83
45	Grain-size distribution and rheology of the upper mantle. <i>Tectonophysics</i> , 1984, 104, 155-176.	2.2	81
46	Shear deformation of dry polycrystalline olivine under deep upper mantle conditions using a rotational Drickamer apparatus (RDA). <i>Physics of the Earth and Planetary Interiors</i> , 2009, 174, 128-137.	1.9	79
47	Rheological control of oceanic crust separation in the transition zone. <i>Geophysical Research Letters</i> , 1996, 23, 1821-1824.	4.0	78
48	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.	4.4	73
49	Electrical conductivity of amphibole-bearing rocks: influence of dehydration. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 17-25.	3.1	71
50	Upper-mantle water stratification inferred from observations of the 2012 Indian Ocean earthquake. <i>Nature</i> , 2016, 538, 373-377.	27.8	69
51	Sheared lherzolite xenoliths revisited. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	64
52	Experimental evidence of reaction-induced fracturing during olivine carbonation. <i>Geophysical Research Letters</i> , 2016, 43, 9535-9543.	4.0	62
53	High temperature creep of single crystal strontium titanate (SrTiO ₃): a contribution to creep systematics in perovskites. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 79, 299-312.	1.9	61
54	Effects of water and iron content on the rheological contrast between garnet and olivine. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 166, 57-66.	1.9	60

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55	Solubility of water in pyrope-rich garnet at high pressures and temperature. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	60
56	Plastic deformation of silicate spinel under the transition-zone conditions of the Earth's mantle. <i>Nature</i> , 1998, 395, 266-269.	27.8	59
57	Frequency dependence of Q in Earth's upper mantle inferred from continuous spectra of body waves. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	59
58	Seismological detection of low-velocity anomalies surrounding the mantle transition zone in Japan subduction zone. <i>Geophysical Research Letters</i> , 2016, 43, 2480-2487.	4.0	59
59	Plastic deformation of wadsleyite and olivine at high-pressure and high-temperature using a rotational Drickamer apparatus (RDA). <i>Physics of the Earth and Planetary Interiors</i> , 2008, 170, 156-169.	1.9	57
60	A Dislocation Model of Seismic Wave Attenuation and Micro-creep in the Earth: Harold Jeffreys and the Rheology of the Solid Earth. <i>Pure and Applied Geophysics</i> , 1998, 153, 239-256.	1.9	56
61	Structures of the oceanic lithosphere-asthenosphere boundary: Mineral-physics modeling and seismological signatures. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 880-901.	2.5	56
62	Water content of the Tanzanian lithosphere from magnetotelluric data: Implications for cratonic growth and stability. <i>Earth and Planetary Science Letters</i> , 2014, 388, 175-186.	4.4	56
63	Terrestrial magma ocean origin of the Moon. <i>Nature Geoscience</i> , 2019, 12, 418-423.	12.9	56
64	Development of finite strain in the convecting lower mantle and its implications for seismic anisotropy. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	52
65	Seismological signature of chemical differentiation of Earth's upper mantle. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	51
66	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, 19-21.	1.9	51
67	Does partial melting explain geophysical anomalies?. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 300-306.	1.9	51
68	Strength of single-crystal orthopyroxene under lithospheric conditions. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 961-975.	3.1	46
69	Water Concentration in Single-Crystal (Al,Fe)-Bearing Bridgmanite Grown From the Hydrous Melt: Implications for Dehydration Melting at the Topmost Lower Mantle. <i>Geophysical Research Letters</i> , 2019, 46, 10346-10357.	4.0	46
70	Theory of isotope diffusion in a material with multiple species and its implications for hydrogen-enhanced electrical conductivity in olivine. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 219, 49-54.	1.9	45
71	Microstructural Development During Nucleation and Growth. <i>Geophysical Journal International</i> , 1996, 125, 397-414.	2.4	40
72	An experimental study of the influence of graphite on the electrical conductivity of olivine aggregates. <i>Geophysical Research Letters</i> , 2013, 40, 2028-2032.	4.0	39

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73	The effect of pressure on the electrical conductivity of olivine under the hydrogen-rich conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 232, 51-56.	1.9	39
74	Unsolved problems in the lowermost mantle. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	38
75	Seismic evidence for water transport out of the mantle transition zone beneath the European Alps. <i>Earth and Planetary Science Letters</i> , 2018, 482, 93-104.	4.4	38
76	Effect of H ₂ O on the density of silicate melts at high pressures: Static experiments and the application of a modified hard-sphere model of equation of state. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 357-372.	3.9	37
77	Nature of the seismic lithosphereâ€asthenosphere boundary within normal oceanic mantle from highâ€eresolution receiver functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1265-1282.	2.5	36
78	A new approach to the equation of state of silicate melts: An application of the theory of hard sphere mixtures. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6780-6802.	3.9	35
79	Influence of oxygen fugacity on the electrical conductivity of hydrous olivine: Implications for the mechanism of conduction. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 232, 57-60.	1.9	35
80	Influence of FeO and H on the electrical conductivity of olivine. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 237, 73-79.	1.9	35
81	Plasticity of Mg ₃ SiO ₃ perovskite: The results of microhardness tests on single crystals. <i>Geophysical Research Letters</i> , 1990, 17, 13-16.	4.0	34
82	Low viscosity of the bottom of the Earthâ€™s mantle inferred from the analysis of Chandler wobble and tidal deformation. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 192-193, 68-80.	1.9	34
83	Grain growth and loss of texture during annealing of alloys, and the translation of Earthâ€™s inner core. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	33
84	Theory of lattice strain in a material undergoing plastic deformation: Basic formulation and applications to a cubic crystal. <i>Physical Review B</i> , 2009, 79, .	3.2	31
85	Influence of Hydrogen-Related Defects on the Electrical Conductivity and Plastic Deformation of Mantle Minerals: A Critical Review. <i>Geophysical Monograph Series</i> , 2013, , 113-129.	0.1	29
86	Shear deformation of polycrystalline wadsleyite up to 2100 K at 14â€“17 GPa using a rotational Drickamer apparatus (RDA). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	28
87	Plastic deformation of wadsleyite: II. High-pressure deformation in shear. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 267-270.	0.8	27
88	Effect of chemical environment on the hydrogen-related defect chemistry in wadsleyite. <i>American Mineralogist</i> , 2008, 93, 831-843.	1.9	27
89	Plastic deformation experiments to high strain on mantle transition zone minerals wadsleyite and ringwoodite in the rotational Drickamer apparatus. <i>Earth and Planetary Science Letters</i> , 2013, 361, 7-15.	4.4	27
90	Water and Volatile Inventories of Mercury, Venus, the Moon, and Mars. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	27

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91	Insights into the nature of plume–asthenosphere interaction from central Pacific geophysical anomalies. <i>Earth and Planetary Science Letters</i> , 2008, 274, 234-240.	4.4	26
92	Volume thermal expansion along the jadeite–diopside join. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 1-14.	0.8	25
93	Dynamics of fault motion and the origin of contrasting tectonic style between Earth and Venus. <i>Scientific Reports</i> , 2018, 8, 11884.	3.3	25
94	Dynamic Recrystallization and High-Temperature Rheology of Olivine. , 1982, , 171-189.		25
95	Deep mantle melting, global water circulation and its implications for the stability of the ocean mass. <i>Progress in Earth and Planetary Science</i> , 2020, 7, .	3.0	25
96	Global Analysis of Experimental Data on the Rheology of Olivine Aggregates. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 310-334.	3.4	24
97	Control of the water fugacity at high pressures and temperatures: Applications to the incorporation mechanisms of water in olivine. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 189, 27-33.	1.9	23
98	On the Yield Strength of Oceanic Lithosphere. <i>Geophysical Research Letters</i> , 2017, 44, 9716-9722.	4.0	23
99	Effects of metal protection coils on thermocouple EMF in multi-anvil high-pressure experiments. <i>American Mineralogist</i> , 2006, 91, 111-114.	1.9	22
100	Plastic anisotropy and slip systems in ringwoodite deformed to high shear strain in the Rotational Drickamer Apparatus. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 244-253.	1.9	22
101	Density–Pressure Profiles of Fe–Bearing MgSiO ₃ Liquid: Effects of Valence and Spin States, and Implications for the Chemical Evolution of the Lower Mantle. <i>Geophysical Research Letters</i> , 2018, 45, 3959-3966.	4.0	22
102	Experimental Studies of Shear Deformation of Mantle Materials: Towards Structural Geology of the Mantle. <i>Pure and Applied Geophysics</i> , 1998, 151, 589-603.	1.9	20
103	Towards Mapping the Three-Dimensional Distribution of Water in the Upper Mantle from Velocity and Attenuation Tomography. <i>Geophysical Monograph Series</i> , 2013, , 225-236.	0.1	20
104	Anisotropic high-temperature creep in hydrous olivine single crystals and its geodynamic implications. <i>Physics of the Earth and Planetary Interiors</i> , 2019, 290, 1-9.	1.9	20
105	The Transition-Zone Water Filter Model for Global Material Circulation: Where Do We Stand?. <i>Geophysical Monograph Series</i> , 0, , 289-313.	0.1	19
106	Some notes on hydrogen-related point defects and their role in the isotope exchange and electrical conductivity in olivine. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 248, 94-98.	1.9	18
107	Markov chain Monte Carlo inversion for the rheology of olivine single crystals. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3142-3172.	3.4	18
108	Slab weakening during the olivine to ringwoodite transition in the mantle. <i>Nature Geoscience</i> , 2020, 13, 170-174.	12.9	18

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109	High-pressure and high-temperature deformation experiments on polycrystalline wadsleyite using the rotational Drickamer apparatus. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 541-558.	0.8	17
110	Physical basis of trace element partitioning: A review. <i>American Mineralogist</i> , 2016, 101, 2577-2593.	1.9	17
111	Some remarks on hydrogen-assisted electrical conductivity in olivine and other minerals. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	3.0	17
112	High temperature creep of single crystal gadolinium gallium garnet. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 73.	0.8	16
113	2. New Developments in Deformation Experiments at High Pressure. , 2002, , 21-50.		15
114	On the Grain Size Sensitivity of Olivine Rheology. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 674-688.	3.4	15
115	Electrical Conductivity of Ti-bearing Hydrous Olivine Aggregates at High Temperature and High Pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020309.	3.4	14
116	High temperature creep in a 2-3-4 garnet: Ca ₃ Ga ₂ Ge ₃ O ₁₂ . <i>Journal of Materials Science</i> , 1999, 34, 4783-4791.	3.7	13
117	High-temperature creep in a Ni ₂ GeO ₄ : a contribution to creep systematics in spinel. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 557-571.	0.8	13
118	Characterization by Scanning Precession Electron Diffraction of an Aggregate of Bridgmanite and Ferropiclasite Deformed at HP-HT. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 582-594.	2.5	13
119	Behavior and properties of water in silicate melts under deep mantle conditions. <i>Scientific Reports</i> , 2021, 11, 10588.	3.3	13
120	Water in the Evolution of the Earth and Other Terrestrial Planets. , 2015, , 105-144.		12
121	Effects of Pressure on Plastic Deformation of Polycrystalline Solids: Some Geological Applications. <i>Materials Research Society Symposia Proceedings</i> , 1997, 499, 3.	0.1	11
122	Asymmetric shock heating and the terrestrial magma ocean origin of the Moon. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2014, 90, 97-103.	3.8	11
123	A wet mantle conductor? (Reply). <i>Nature</i> , 2006, 439, E3-E4.	27.8	10
124	The influence of ferric iron and hydrogen on Fe-Mg interdiffusion in ferropiclasite ((Mg,Fe)O) in the lower mantle. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 261-273.	0.8	10
125	Grain growth in CaTiO ₃ -perovskite + FeO-wüstite aggregates. <i>Physics and Chemistry of Minerals</i> , 1999, 27, 11-19.	0.8	9
126	Some remarks on the models of plate tectonics on terrestrial planets: From the view-point of mineral physics. <i>Tectonophysics</i> , 2014, 631, 4-13.	2.2	8

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127	A Theory of Intergranular Transient Dislocation Creep: Implications for the Geophysical Studies on Mantle Rheology. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022763.	3.4	8
128	Melting of Bridgmanite Under Hydrous Shallow Lower Mantle Conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022222.	3.4	7
129	Thermal Ionization of Hydrogen in Hydrous Olivine With Enhanced and Anisotropic Conductivity. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022939.	3.4	7
130	Elasticity of Hydrated Al-bearing Stishovite and Post-stishovite: Implications for Understanding Regional Seismic Velocity Anomalies Along Subducting Slabs in the Lower Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	7
131	Interaction of Chemically Stratified Subducted Oceanic Lithosphere with the 660 km Discontinuity.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1995, 71, 203-207.	3.8	6
132	Influence of hydrogen on the electronic states of olivine: Implications for electrical conductivity. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	5
133	Development of a Stress Sensor for In-Situ High-Pressure Deformation Experiments Using Radial X-Ray Diffraction. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 166.	2.0	5
134	Growing Understanding of Subduction Dynamics Indicates Need to Rethink Seismic Hazards. <i>Eos</i> , 2013, 94, 125-126.	0.1	4
135	Influence of realistic rheological properties on the style of mantle convection: roles of dynamic friction and depth-dependence of rheological properties. <i>Geophysical Journal International</i> , 2021, 226, 1986-1996.	2.4	4
136	Anisotropy in the Earth Formed by Plastic Flow in Rocks. <i>Zisin (Journal of the Seismological Society) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.2	3
137	Some issues on the strength of the lithosphere. <i>Journal of Earth Science (Wuhan, China)</i> , 2011, 22, 131-136.	3.2	3
138	Editorial: Topical Collection on the Delivery of Water to Proto-Planets, Planets and Satellites. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	3
139	An experimental study of grain-scale microstructure evolution during the olivine-wadsleyite phase transition under nominally "dry" conditions. <i>Earth and Planetary Science Letters</i> , 2018, 501, 128-137.	4.4	3
140	The Effect of Pressure on Grain-Growth Kinetics in Olivine Aggregates With Some Geophysical Applications. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020886.	3.4	3
141	The Influence of Equation of State on the Giant Impact Simulations. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	3
142	Dynamics and anisotropy of the Earth's inner core. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2000, 76, 1-6.	3.8	2
143	Water in the Earth's Interior: Distribution and Origin. <i>Space Sciences Series of ISSI</i> , 2017, , 83-150.	0.0	2
144	Effects of pressure on diffusion creep in wet olivine aggregates. <i>Physics of the Earth and Planetary Interiors</i> , 2022, 324, 106840.	1.9	2

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145	Reply to comment by Kawakatsu and Abe on "Nature of the seismic lithosphereâ€asthenosphere boundary within normal oceanic mantle from high-resolution receiver functions" Geochemistry, Geophysics, Geosystems, 2016, 17, 3493-3501.	2.5	1
146	Anhydrous Phase B: Transmission Electron Microscope Characterization and Elastic Properties. Geochemistry, Geophysics, Geosystems, 2019, 20, 4059-4072.	2.5	1
147	Flow and Fracture of Rocks: A Review of Laboratory Studies. Zisin (Journal of the Seismological) Tj ETQq1 1 0.784314 rgBT /Overlock 0	0.2	0
148	Stress and Strain Rate Evolution During the Finite Strain Deformation of a Weak Ferropericase Grain by Diffusion Creep: Implications for Shear Localization in the Lower Mantle. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	0