

Jean-Philippe Perrillat

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,576
citations

331670

21
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

1881
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear wave velocities across the olivine “ wadsleyite “ ringwoodite transitions and sharpness of the 410 km seismic discontinuity. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117690.	4.4	1
2	Insights into soft-part preservation from the Early Ordovician Fezouata Biota. <i>Earth-Science Reviews</i> , 2021, 213, 103464.	9.1	23
3	Dataset for H ₂ , CH ₄ and organic compounds formation during experimental serpentinization. <i>Geoscience Data Journal</i> , 2021, 8, 90-100.	4.4	4
4	A new high-pressure technique for the measurement of low frequency seismic attenuation using cyclic torsional loading. <i>Review of Scientific Instruments</i> , 2021, 92, 093906.	1.3	1
5	Reevaluation of metal interconnectivity in a partially molten silicate matrix using 3D microtomography. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 308, 106571.	1.9	2
6	Taphonomic pathway of exceptionally preserved fossils in the Lower Ordovician of Morocco. <i>Geobios</i> , 2020, 60, 99-115.	1.4	17
7	The Weaklaw Vent, SE Scotland: Metasomatism of eruptive products by carbo-hydro-fluids of probable mantle origin. <i>Mineralogical Magazine</i> , 2019, 83, 855-867.	1.4	1
8	Recent Tomographic Imaging Developments at the PSICHE Beamline. <i>Integrating Materials and Manufacturing Innovation</i> , 2019, 8, 551-558.	2.6	15
9	In situ Viscometry of Primitive Lunar Magmas at High Pressure and High Temperature. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	9
10	Orbital control on exceptional fossil preservation. <i>Geology</i> , 2019, 47, 103-106.	4.4	26
11	High-speed tomography under extreme conditions at the PSICHE beamline of the SOLEIL Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 818-825.	2.4	16
12	CO ₂ -induced destabilization of pyrite-structured FeO ₂ Hx in the lower mantle. <i>National Science Review</i> , 2018, 5, 870-877.	9.5	15
13	Salt partitioning between water and high-pressure ices. Implication for the dynamics and habitability of icy moons and water-rich planetary bodies. <i>Earth and Planetary Science Letters</i> , 2017, 463, 36-47.	4.4	39
14	Deformation-aided segregation of Fe-S liquid from olivine under deep Earth conditions: Implications for core formation in the early solar system. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 263, 38-54.	1.9	11
15	Deep crustal fracture zones control fluid escape and the seismic cycle in the Cascadia subduction zone. <i>Earth and Planetary Science Letters</i> , 2017, 460, 1-11.	4.4	21
16	Development of synchrotron X-ray micro-tomography under extreme conditions of pressure and temperature. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 240-247.	2.4	12
17	Novel portable press for synchrotron time-resolved 3-D micro-imaging under extreme conditions. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
18	Tomography and imaging at the PSICHE beam line of the SOLEIL synchrotron. <i>Review of Scientific Instruments</i> , 2016, 87, 093704.	1.3	59

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19	Evolution of grain sizes and orientations during phase transitions in hydrous $\text{Mg}_{2}\text{SiO}_{4}$. Journal of Geophysical Research: Solid Earth, 2016, 121, 7161-7176.	3.4	14
20	Contrasted effect of aluminum on the serpentinization rate of olivine and orthopyroxene under hydrothermal conditions. Chemical Geology, 2016, 441, 256-264.	3.3	18
21	Rotating tomography Parisâ€“Edinburgh cell: a novel portable press for micro-tomographic 4-D imaging at extreme pressure/temperature/stress conditions. High Pressure Research, 2016, 36, 512-532.	1.2	20
22	Kinetics of the olivineâ€“ringwoodite transformation and seismic attenuation in the Earth's mantle transition zone. Earth and Planetary Science Letters, 2016, 433, 360-369.	4.4	8
23	Multi-mode conversion imaging of the subducted Gorda and Juan de Fuca plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.	4.4	28
24	<i>In situ</i> monitoring of phase transformation microstructures at Earth's mantle pressure and temperature using multi-grain XRD. Journal of Applied Crystallography, 2015, 48, 1346-1354.	4.5	15
25	Supervolcano eruptions driven by melt buoyancy in large silicic magma chambers. Nature Geoscience, 2014, 7, 122-125.	12.9	102
26	Equations of state of ice VI and ice VII at high pressure and high temperature. Journal of Chemical Physics, 2014, 141, 104505.	3.0	49
27	Mechanism and kinetics of the $\hat{\Gamma}$ transition in San Carlos olivine $\text{Mg}_{1.8}\text{Fe}_{0.2}\text{SiO}_{4}$. Journal of Geophysical Research: Solid Earth, 2013, 118, 110-119.	3.4	19
28	Neutral buoyancy of titanium-rich melts in the deep lunar interior. Nature Geoscience, 2012, 5, 186-189.	12.9	58
29	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
30	Compressibility change in iron-rich melt and implications for core formation models. Earth and Planetary Science Letters, 2011, 306, 118-122.	4.4	56
31	New host for carbon in the deep Earth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5184-5187.	7.1	118
32	Calibration of a diamond capsule cell assembly for <i>in situ</i> determination of liquid properties in the Parisâ€“Edinburgh press. High Pressure Research, 2010, 30, 332-341.	1.2	14
33	<i>In situ</i> viscometry of high-pressure melts in the Parisâ€“Edinburgh cell: application to liquid FeS. High Pressure Research, 2010, 30, 415-423.	1.2	23
34	Phase relations and equation of state of a natural MORB: Implications for the density profile of subducted oceanic crust in the Earth's lower mantle. Journal of Geophysical Research, 2010, 115, .	3.3	139
35	Experimental evidence for perovskite and post-perovskite coexistence throughout the whole Dâ€™3 region. Earth and Planetary Science Letters, 2010, 293, 90-96.	4.4	66
36	Tetrahedrally bonded dense C a defective wurtzite structure: X-ray diffraction and Raman scattering results at high pressure and ambient conditions. Physical Review B, 2009, 80, .	3.2	38

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37	In situ structural investigation of Fe-Si immiscible liquid system and evolution of Fe-S bond properties with pressure. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
38	Analytical transmission electron microscopy study of a natural MORB sample assemblage transformed at high pressure and high temperature. <i>American Mineralogist</i> , 2008, 93, 144-153.	1.9	38
39	Kinetics of high-pressure mineral phase transformations using <i>in situ</i> time-resolved X-ray diffraction in the Paris-Edinburgh cell: a practical guide for data acquisition and treatment. <i>Mineralogical Magazine</i> , 2008, 72, 683-695.	1.4	16
40	The post-stishovite phase transition in hydrous alumina-bearing SiO ₂ in the lower mantle of the earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13588-13590.	7.1	102
41	Single-crystal elastic properties of Ca _{0.07} Mg _{1.93} Si ₂ O ₆ orthopyroxene. <i>American Mineralogist</i> , 2007, 92, 109-113.	1.9	9
42	Phase transformations of subducted basaltic crust in the upmost lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 157, 139-149.	1.9	72
43	Kinetics of antigorite dehydration: A real-time X-ray diffraction study. <i>Earth and Planetary Science Letters</i> , 2005, 236, 899-913.	4.4	112
44	Kinetics of the Coesite-Quartz Transition: Application to the Exhumation of Ultrahigh-Pressure Rocks. <i>Journal of Petrology</i> , 2003, 44, 773-788.	2.8	71