## Jean-Philippe Perrillat

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3867305/publications.pdf

Version: 2024-02-01

44 papers 1,576 citations

331670 21 h-index 289244 40 g-index

44 all docs

44 docs citations

times ranked

44

1881 citing authors

#	Article	IF	CITATIONS
1	Shear wave velocities across the olivine $\hat{a} \in \text{``}$ wadsleyite $\hat{a} \in \text{``}$ ringwoodite transitions and sharpness of the 410 km seismic discontinuity. Earth and Planetary Science Letters, 2022, 593, 117690.	4.4	1
2	Insights into soft-part preservation from the Early Ordovician Fezouata Biota. Earth-Science Reviews, 2021, 213, 103464.	9.1	23
3	Dataset for H <sub>2</sub> , CH <sub>4</sub> and organic compounds formation during experimental serpentinization. Geoscience Data Journal, 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. Review of Scientific Instruments, 2021, 92, 093906.	1.3	1
5	Reevaluation of metal interconnectivity in a partially molten silicate matrix using 3D microtomography. Physics of the Earth and Planetary Interiors, 2020, 308, 106571.	1.9	2
6	Taphonomic pathway of exceptionally preserved fossils in the Lower Ordovician of Morocco. Geobios, 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. Mineralogical Magazine, 2019, 83, 855-867.	1.4	1
8	Recent Tomographic Imaging Developments at the PSICHE Beamline. Integrating Materials and Manufacturing Innovation, 2019, 8, 551-558.	2.6	15
9	In situ Viscometry of Primitive Lunar Magmas at High Pressure and High Temperature. Frontiers in Earth Science, 2019, 7, .	1.8	9
10	Orbital control on exceptional fossil preservation. Geology, 2019, 47, 103-106.	4.4	26
11	High-speed tomography under extreme conditions at the PSICHE beamline of the SOLEIL Synchrotron. Journal of Synchrotron Radiation, 2018, 25, 818-825.		16
		2.4	16
12	CO2-induced destabilization of pyrite-structured FeO2Hx in the lower mantle. National Science Review, 2018, 5, 870-877.	9.5	15
13	CO2-induced destabilization of pyrite-structured FeO2Hx in the lower mantle. National Science		
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Evolution of grain slees and orientations during phase transitions in hydrous Microbol 27(500) 507 casb 41(500), journal of Geophysical Research, 2016, 121, 7161-7176.  20 Contrasted effect of aluminum on the serpentinization rate of olivine and orthopyroxene under hydrothermal conditions, Chemical Ceology, 2016, 441, 256-264.  21 Rotating tomography Parka' Edinburgh cells a novel portable press for micro-tomographic 4-0 imaging at extreme pressure/femperature/stress conditions. High Pressure Research, 2016, 56, 512-532.  22 Kinetics of the olivine8e inguise of the subducted Cords and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 433, 360-369.  23 Multi-mode conversion imaging of the subducted Cords and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 493, 360-369.  24 (John situs/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.  25 Supervolcano eupdrons driven by melt-buoyency in large silicic magins chambers. Nature Geoscience, 12-9 102-2014, 7, 122-125.  26 Equations of state of ice M and ice VII at high pressure and high temperature. Journal of Chemical Physics, 2014, 141, 104505.  27 Mechanism and kinetics of the is&Crift transition in San Carlos olivine Microsoft States of Kell Letters, 2012, 1818, 110-119.  28 Neutral buoyancy of titanium-rich melts in the deep lunar interior. Nature Geoscience, 2012, 5, 186-189.  29 Experimental investigation of the stability of Fe&frich carbonates in the lower mantle, Journal of Geophysical Research, 2012, 1118, 110-119.  30 Compressibility change in iron-tich melt and implications for core formation models. Earth and Planetary Science Letters, 2011, 306, 118-1122.  31 New host for carbon in the deep Earth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 106, 5184-5187.  32 Calibration of a diamond capsu	#	Article	IF	CITATIONS
hydrothermal conditions. Chemical Geology, 2016, 441, 256-264.  Rotating tomography ParisaC*Edinburgh cells a novel portable press for micro-tomographic 4-D imaging at extreme pressure/temperature/stress conditions. High Pressure Research, 2016, 36, 512-532.  Kinetics of the olivineaC*Injowoodite transformation and seismic attenuation in the Earth's mantle transition zone. Earth and Planetary Science Letters, 2016, 433, 360-369.  Multi-mode conversion imaging of the subducted Gorda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  4.4 28  Multi-mode conversion imaging of the subducted Gorda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  4.5 15  Supervolcano emptions of the subducted Gorda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  Supervolcano emptions of phase transformation microstructures at Earth's mantle pressure and temperature using multi-grain XRD. Journal of Applied Crystallography, 2013, 48, 1346-1354.  Equations of state of ice VI and ice VII at high pressure and high temperature. Journal of Chemical Physics, 2014, 141, 104505.  Equations of state of ice VI and ice VII at high pressure and high temperature. Journal of Chemical Physics, 2014, 141, 104505.  Mechanism and kinetics of the leaC** transition in San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition in San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition in San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition of San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition of San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition of San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition of San Carlos olivine Mgresib 1.6 (sub) received to the leaC** transition of San Carlos olivine Mgresib 1.6 (sub) received transition of the stability of F	19	Evolution of grain sizes and orientations during phase transitions in hydrous Mg <sub>2</sub> SiO <sub>4</sub> . Journal of Geophysical Research: Solid Earth, 2016, 121, 7161-7176.	3.4	14
at extreme pressure/temperature/stress conditions. High Pressure Research, 2016, 36, 512-532.  Kinetics of the olivine&C*ingwoodite transformation and seismic attenuation in the Earth's mantle transition zone. Earth and Planetary Science Letters, 2016, 433, 360-369.  Multismode conversion imaging of the subducted Corda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 433, 360-369.  Multismode conversion imaging of the subducted Corda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  Multismode conversion imaging of the subducted Corda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  Multismode conversion imaging of the subducted Corda and Juan de Fuce plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  Multismode conversion imaging of the subducted Corda and Juan de Fuce plates below the North American continent. Earth and Earth is mantle pressure and the Earth's Earth's mantle pressure and the North American continent in Earth and Earth is 2015, 440, 135-146.  Mechanism and kinetic soft in Earth's Earth in Earth is pressure and high temperature. Journal of Chemical Physics, 2014, 141, 104505.  Mechanism and kinetics of the Earth's Institution in San Carlos olivine Migrasion 14, 141, 104505.  Mechanism and kinetics of the Earth's Earth in the deep lunar interior. Nature Geoscience, 2012, 5, 186-189.  Experimental investigation of the stability of Fe&Fich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117.  Experimental investigation of the stability of Fe&Fich carbonates in the lower mantle. Journal of Geophysical Research, 2010, 130, 5118-122.  Compressibility change in tron-rich melt and implications for core formation models. Earth and Planetary Science Letters, 2011, 136, 5118-122.  Experimental evidence for perovskite earth proceedings of the Nati	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
transition zone. Earth and Planetary Science Letters, 2016, 433, 360-369.  Multi-mode conversion imaging of the subducted Corda and Juan de Fuca plates below the North American continent. Earth and Planetary Science Letters, 2016, 440, 135-146.  Which situs (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.  Supervolcano eruptions driven by melt buoyancy in large silicic magma chambers. Nature Geoscience, 2014, 7, 122-125.  Supervolcano eruptions driven by melt buoyancy in large silicic magma chambers. Nature Geoscience, 12-9 102  Equations of state of ice VI and ice VII at high pressure and high temperature. Journal of Chemical Physics, 2014, 141, 104505.  Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the labe**(P) transition in San Carlos olivine Mechanism and kinetics of the stability of Feacrich carbonates in the lower mantle. Journal of Geophysical Research: Solid Earth, 2012 San Carlos of the United San Carlos of the San Carlos of the San Carlos of the United San Carlos of America, 2011, 108, 5184-5187.  Calloration of a diamond capsule cell assembly forcloin situ(I) determination of liquid properties in the Paris	21	Rotating tomography Paris–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
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Physics, 2014, 141, 104505.  Mechanism and kinetics of the f±â€°f² transition in San Carlos olivine Mg∢sub>1.8 ⟨sub>Fe∢sub>0.2 ⟨sub>SiO⟨sub>4 ⟨sub⟩. Journal of Geophysical Research: Solid Earth, 2013, 118, 110-119.  Neutral buoyancy of titanium-rich melts in the deep lunar interior. Nature Geoscience, 2012, 5, 186-189.  Experimental investigation of the stability of Feã€rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117,.  Compressibility change in iron-rich melt and implications for core formation models. Earth and Planetary Science Letters, 2011, 306, 118-122.  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.  Calibration of a diamond capsule cell assembly for⟨i⟩in situ⟨f⟩ determination of liquid properties in the Paris‰Edinburgh press. High Pressure Research, 2010, 30, 332-341.  Calibration of a diamond capsule cell assembly for⟨i⟩in situ⟨f⟩ determination of liquid properties in the Paris‰Edinburgh press. High Pressure Research, 2010, 30, 332-341.  All Situ⟨f⟩viscometry of high-pressure melts in the Paris‰Edinburgh cell: application to liquid FeS. High Pressure Research, 2010, 30, 415-423.  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, .  Experimental evidence for perovskite and post-perovskite coexistence throughout the whole Dă€3	25	Supervolcano eruptions driven by melt buoyancy in large silicic magma chambers. Nature Geoscience, 2014, 7, 122-125.	12.9	102
Mg s sub > 1.8 ⟨ s ub > Fe < sub > 0.2 ⟨ s ub > SiO ⟨ s ub > 4 ⟨ s ub > . Journal of Geophysical Research: Solid Earth, 2013, 118, 110-119.  Neutral buoyancy of titanium-rich melts in the deep lunar interior. Nature Geoscience, 2012, 5, 186-189.  Experimental investigation of the stability of Feâ€rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117,  Compressibility change in iron-rich melt and implications for core formation models. Earth and Planetary Science Letters, 2011, 306, 118-122.  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.  Calibration of a diamond capsule cell assembly for ⟨ i⟩ in situ ⟨ j ⟩ determination of liquid properties in the Parisâ€"Edinburgh press. High Pressure Research, 2010, 30, 332-341.  (□) In situ ⟨ j ⟩ viscometry of high-pressure melts in the Parisâ€"Edinburgh cell: application to liquid FeS. High Pressure Research, 2010, 30, 415-423.  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,  Experimental evidence for perovskite and post-perovskite coexistence throughout the whole Dâ€3	26		3.0	49
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Planetary Science Letters, 2011, 306, 118-122.  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.  Calibration of a diamond capsule cell assembly for ⟨i⟩in situ ⟨i⟩ determination of liquid properties in the Paris–Edinburgh press. High Pressure Research, 2010, 30, 332-341.  1.2 14  33 ⟨i⟩In situ ⟨i⟩ viscometry of high-pressure melts in the Paris–Edinburgh cell: application to liquid FeS. High Pressure Research, 2010, 30, 415-423.  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, .  Experimental evidence for perovskite and post-perovskite coexistence throughout the whole D″	29	Experimental investigation of the stability of Feâ€rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
States of America, 2011, 108, 5184-5187.  Calibration of a diamond capsule cell assembly for ⟨i⟩ in situ ⟨ /i⟩ determination of liquid properties in the Paris–Edinburgh press. High Pressure Research, 2010, 30, 332-341.  1.2 14  (i⟩ In situ ⟨ /i⟩ viscometry of high-pressure melts in the Paris–Edinburgh cell: application to liquid FeS. High Pressure Research, 2010, 30, 415-423.  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, .  Experimental evidence for perovskite and post-perovskite coexistence throughout the whole D″	30		4.4	56
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High Pressure Research, 2010, 30, 415-423.  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, .  Experimental evidence for perovskite and post-perovskite coexistence throughout the whole D″	32		1.2	14
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Experimental evidence for perovskite and post-perovskite coexistence throughout the whole D″ region. Earth and Planetary Science Letters, 2010, 293, 90-96. 4.4 66	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 $D\hat{a} \in \mathbb{R}^3$ region. Earth and Planetary Science Letters, 2010, 293, 90-96.	4.4	66

Tetrahedrally bonded dense<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>C</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mtext a defective wurtzite structure: X-ray diffraction and Raman scattering results at high pressure and ambient conditions. Physical Review B, 2009, 80, .

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37	In situ structural investigation of Feâ€Sâ€Si immiscible liquid system and evolution of Feâ€S bond properties with pressure. Journal of Geophysical Research, 2008, 113, .	3.3	31
38	Analytical transmission electron microscopy study of a natural MORB sample assemblage transformed at high pressure and high temperature. American Mineralogist, 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.  Mineralogical Magazine, 2008, 72, 683-695.	1.4	16
40	The post-stishovite phase transition in hydrous alumina-bearing SiO <sub>2</sub> in the lower mantle of the earth. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13588-13590.	7.1	102
41	Single-crystal elastic properties of Ca0.07Mg1.93Si2O6 orthopyroxene. American Mineralogist, 2007, 92, 109-113.	1.9	9
42	Phase transformations of subducted basaltic crust in the upmost lower mantle. Physics of the Earth and Planetary Interiors, 2006, 157, 139-149.	1.9	72
43	Kinetics of antigorite dehydration: A real-time X-ray diffraction study. Earth and Planetary Science Letters, 2005, 236, 899-913.	4.4	112
44	Kinetics of the Coesite-Quartz Transition: Application to the Exhumation of Ultrahigh-Pressure Rocks. Journal of Petrology, 2003, 44, 773-788.	2.8	71