

Chrystele Sanloup

List of Publications by Year in descending order

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61
papers

4,237
citations

156536

32
h-index

162838

57
g-index

64
all docs

64
docs citations

64
times ranked

3865
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorpheus: a Python-based software for the treatment of X-ray scattering data of amorphous and liquid systems. <i>High Pressure Research</i> , 2022, 42, 69-93.	0.4	7
2	Hadean isotopic fractionation of xenon retained in deep silicates. <i>Nature</i> , 2022, 606, 713-717.	13.7	0
3	Noble Gas Reactivity in Planetary Interiors. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	6
4	Deep Earth carbon reactions through time and space. <i>American Mineralogist</i> , 2020, 105, 22-27.	0.9	5
5	Xenon and iodine behaviour in magmas. <i>Earth and Planetary Science Letters</i> , 2019, 522, 144-154.	1.8	10
6	First-principles modeling of chlorine isotope fractionation between chloride-bearing molecules and minerals. <i>Chemical Geology</i> , 2019, 525, 424-434.	1.4	21
7	The Xe-SiO ₂ System at Moderate Pressure and High Temperature. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 992-1003.	1.0	7
8	Polymerized 4-Fold Coordinated Carbonate Melts in the Deep Mantle. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	3
9	Behaviour of niobium during early Earth's differentiation: insights from its local structure and oxidation state in silicate melts at high pressure. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 084004.	0.7	4
10	Bonding of xenon to oxygen in magmas at depth. <i>Earth and Planetary Science Letters</i> , 2018, 484, 103-110.	1.8	9
11	New constraints on Xe incorporation mechanisms in olivine from first-principles calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 146-155.	1.6	14
12	Femtosecond diffraction studies of solid and liquid phase changes in shock-compressed bismuth. <i>Scientific Reports</i> , 2018, 8, 16927.	1.6	33
13	Kr environment in feldspathic glass and melt: A high pressure, high temperature X-ray absorption study. <i>Chemical Geology</i> , 2018, 493, 525-531.	1.4	6
14	X-Ray Diffraction Structure Measurements. , 2018, , 137-153.		1
15	Viscosity of mafic magmas at high pressures. <i>Geophysical Research Letters</i> , 2017, 44, 818-826.	1.5	28
16	Lutetium incorporation in magmas at depth: Changes in melt local environment and the influence on partitioning behaviour. <i>Earth and Planetary Science Letters</i> , 2017, 464, 155-165.	1.8	13
17	Density of magmas at depth. <i>Chemical Geology</i> , 2016, 429, 51-59.	1.4	32
18	Development of chemical and topological structure in aluminosilicate liquids and glasses at high pressure. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 105103.	0.7	42

#	ARTICLE	IF	CITATIONS
19	Viscosity of liquid fayalite up to 9 GPa. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 219-227.	1.6	26
20	Bromine speciation in hydrous silicate melts at high pressure. <i>Chemical Geology</i> , 2015, 404, 18-26.	1.4	26
21	Magmas trapped at the continental lithosphere–asthenosphere boundary. <i>Earth and Planetary Science Letters</i> , 2014, 393, 105-112.	1.8	33
22	Clumped fluoride-hydroxyl defects in forsterite: Implications for the upper-mantle. <i>Earth and Planetary Science Letters</i> , 2014, 390, 287-295.	1.8	42
23	Reactivity of Xenon with Ice at Planetary Conditions. <i>Physical Review Letters</i> , 2013, 110, 265501.	2.9	40
24	Structure and density of molten fayalite at high pressure. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 118, 118-128.	1.6	51
25	Structural change in molten basalt at deep mantle conditions. <i>Nature</i> , 2013, 503, 104-107. Structure of $(\text{Fe}_{1-x}\text{Mg}_x)_2\text{SiO}_4$ at high pressure and temperature: Implications for the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2013, 366, 1-10.	13.7	145
26	Fe^{2+} and Fe^{3+} distribution in fayalite at high pressure and temperature: Implications for the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2013, 366, 11-20.		

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37	In situ determination of Fe-Fe ₃ S phase diagram and liquid structural properties up to 65 GPa. Earth and Planetary Science Letters, 2008, 272, 620-626.	1.8	85
38	In situ structural investigation of Fe-Si immiscible liquid system and evolution of Fe-S bond properties with pressure. Journal of Geophysical Research, 2008, 113, .	3.3	31
39	Optimization of Paris-Edinburgh press cell assemblies for in situ monochromatic X-ray diffraction and X-ray absorption. High Pressure Research, 2007, 27, 223-233.	0.4	48
40	High P-T transformations of nitrogen to 170 GPa. Journal of Chemical Physics, 2007, 126, 184505.	1.2	130
41	Structure of eutectic Fe-FeS melts to pressures up to 17 GPa: Implications for planetary cores. Earth and Planetary Science Letters, 2007, 263, 128-139.	1.8	77
42	Thermal equation of state of cubic boron nitride: Implications for a high-temperature pressure scale. Physical Review B, 2007, 75, .	1.1	73
43	OsN ₂ : Crystal structure and electronic properties. Applied Physics Letters, 2007, 90, 011909.	1.5	87
44	Synthesis of Novel Transition Metal Nitrides IrN ₂ and OsN ₂ . Physical Review Letters, 2006, 96, 155501.	2.9	481
45	Probing of Structure Factor of Water to 57 GPa and 1500 K. Materials Research Society Symposia Proceedings, 2006, 987, 1.	0.1	0
46	On the μ - η transition of nitrogen. Journal of Chemical Physics, 2006, 124, 116102.	1.2	21
47	Interstitial dinitrogen makes PtN ₂ an insulating hard solid. Physical Review B, 2006, 73, .	1.1	125
48	Retention of Xenon in Quartz and Earth's Missing Xenon. Science, 2005, 310, 1174-1177.	6.0	99
49	Synthesis and characterization of a binary noble metal nitride. Nature Materials, 2004, 3, 294-297.	13.3	500
50	Experimentally determined postspinel transformation boundary in Mg ₂ SiO ₄ using MgO as an internal pressure standard and its geophysical implications. Journal of Geophysical Research, 2004, 109, .	3.3	342
51	Effect of Si on liquid Fe compressibility: Implications for sound velocity in core materials. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	71
52	A critical evaluation of pressure scales at high temperatures by in situ X-ray diffraction measurements. Physics of the Earth and Planetary Interiors, 2004, 143-144, 515-526.	0.7	127
53	Closure of the Fe-Si liquid miscibility gap at high pressure. Physics of the Earth and Planetary Interiors, 2004, 147, 57-65.	0.7	63
54	Physical properties of liquid Fe alloys at high pressure and their bearings on the nature of metallic planetary cores. Journal of Geophysical Research, 2002, 107, ECV 4-1-ECV 4-9.	3.3	65

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55	Evidence for xenon silicates at high pressure and temperature. <i>Geophysical Research Letters</i> , 2002, 29, 30-1-30-4.	1.5	24
56	High-pressure transformations in xenon hydrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 25-28.	3.3	66
57	Structural changes in liquid Fe at high pressures and high temperatures from Synchrotron X-ray Diffraction. <i>Europhysics Letters</i> , 2000, 52, 151-157.	0.7	69
58	Zr isotope anomalies in chondrites and the presence of ⁹² Nb in the early solar system. <i>Earth and Planetary Science Letters</i> , 2000, 184, 75-81.	1.8	42
59	Density measurements of liquid Fe-S alloys at high-pressure. <i>Geophysical Research Letters</i> , 2000, 27, 811-814.	1.5	152
60	A simple chondritic model of Mars. <i>Physics of the Earth and Planetary Interiors</i> , 1999, 112, 43-54.	0.7	197
61	Properties of molten CaCO ₃ at high pressure. <i>Geochemical Perspectives Letters</i> , 0, , 17-21.	1.0	18