

Valerio Cerantola

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,178
citations

361413

20
h-index

454955

30
g-index

55
all docs

55
docs citations

55
times ranked

1318
citing authors

#	ARTICLE	IF	CITATIONS
37	Dolomite-IV: Candidate structure for a carbonate in the Earth's lower mantle. American Mineralogist, 2017, 102, 1763-1766. Critical behavior of $Mg_{1-x}Fe_xCO_3$ carbonate solid solution at high pressures up to 55 GPa. Physics and Chemistry of Minerals, 2014, 41, 633-638.	1.9	42
38	Pressure driven spin transition in siderite and magnesiosiderite single crystals. Scientific Reports, 2017, 7, 16526.	3.3	24
39	Stability of Fe,Al-bearing bridgmanite in the lower mantle and synthesis of pure Fe-bridgmanite. Science Advances, 2016, 2, e1600427.	10.3	31
40	Probing the local, electronic and magnetic structure of matter under extreme conditions of temperature and pressure. High Pressure Research, 2016, 36, 293-302.	1.2	10
41	Magnetic interactions in NiO at ultrahigh pressure. Physical Review B, 2016, 93, .	3.2	15
42	Local structure and spin transition in Fe_2O_3 hematite at high pressure. Physical Review B, 2016, 94, .	3.2	33
43	Synchrotron Mössbauer Source technique for in situ measurement of iron-bearing inclusions in natural diamonds. Lithos, 2016, 265, 328-333.	1.4	17
44	Bulk sensitive determination of the Fe^{3+}/Fe^{Tot} -ratio in minerals by Fe L _{2/3} -edge X-ray Raman scattering. Journal of Analytical Atomic Spectrometry, 2016, 31, 815-820.	3.0	9
45	Time differentiated nuclear resonance spectroscopy coupled with pulsed laser heating in diamond anvil cells. Review of Scientific Instruments, 2015, 86, 114501.	1.3	13
46	Oxidation state of the lower mantle: In situ observations of the iron electronic configuration in bridgmanite at extreme conditions. Earth and Planetary Science Letters, 2015, 423, 78-86.	4.4	30
47	High Poisson's ratio of Earth's inner core explained by carbon alloying. Nature Geoscience, 2015, 8, 220-223.	12.9	113
48	Deformation of a crystalline olivine aggregate containing two immiscible liquids: Implications for early core-mantle differentiation. Earth and Planetary Science Letters, 2015, 417, 67-77.	4.4	26
49	High-pressure synthesis of skiaegite-majorite garnet and investigation of its crystal structure. American Mineralogist, 2015, 100, 2650-2654.	1.9	6
50	High-pressure spectroscopic study of siderite ($FeCO_3$) with a focus on spin crossover. American Mineralogist, 2015, 100, 2670-2681.	1.9	57
51	Raman study of $MgCO_3$ - $FeCO_3$ carbonate solid solution at high pressures up to 55 GPa. Physics and Chemistry of Minerals, 2014, 41, 633-638.	0.8	37
52	Large oxygen excess in the primitive mantle could be the source of the Great Oxygenation Event. Geochemical Perspectives Letters, 0, , 5-10.	5.0	42
53	Magma properties at deep Earth's conditions from electronic structure of silica. Geochemical Perspectives Letters, 0, , 32-37.	5.0	37