Alexandre Corgne

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10194228/publications.pdf

Version: 2024-02-01

32 papers	2,499 citations	257450 24 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	2072 citing authors

#	Article	IF	Citations
1	An experimental study of element partitioning between magnetite, clinopyroxene and iron-bearing silicate liquids with particular emphasis on vanadium. Contributions To Mineralogy and Petrology, 2002, 144, 22-37.	3.1	290
2	Melting of Peridotite to 140 Gigapascals. Science, 2010, 329, 1516-1518.	12.6	286
3	Systematics of metalâ€“silicate partitioning for many siderophile elements applied to Earthâ€™s core formation. Geochimica Et Cosmochimica Acta, 2011, 75, 1451-1489.	3.9	167
4	Silicate perovskite-melt partitioning of trace elements and geochemical signature of a deep perovskitic reservoir. Geochimica Et Cosmochimica Acta, 2005, 69, 485-496.	3.9	163
5	Metalâ€“silicate partitioning and constraints on core composition and oxygen fugacity during Earth accretion. Geochimica Et Cosmochimica Acta, 2008, 72, 574-589.	3.9	160
6	Spin transition and equations of state of (Mg, Fe)O solid solutions. Geophysical Research Letters, 2007, 34, .	4.0	152
7	Trace-element fractionation in Hadean mantle generated by melt segregation from a magma ocean. Nature, 2005, 436, 246-249.	27.8	120
8	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
9	Oxygen and silicon contents of Earth's core from high pressure metalâ€“silicate partitioning experiments. Earth and Planetary Science Letters, 2011, 310, 409-421.	4.4	91
10	How much potassium is in the Earth's core? New insights from partitioning experiments. Earth and Planetary Science Letters, 2007, 256, 567-576.	4.4	81
11	Silicon isotope variations in the inner solar system: Implications for planetary formation, differentiation and composition. Geochimica Et Cosmochimica Acta, 2013, 121, 67-83.	3.9	80
12	No iron isotope fractionation between molten alloys and silicate melt to 2000ÂÂ°C and 7.7ÂGPa: Experimental evidence and implications for planetary differentiation and accretion. Earth and Planetary Science Letters, 2009, 278, 376-385.	4.4	79
13	Plume-subduction interaction forms large auriferous provinces. Nature Communications, 2017, 8, 843.	12.8	69
14	Experimental investigation of the stability of Feâ€rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
15	Compositional effects on element partitioning between Mg-silicate perovskite and silicate melts. Contributions To Mineralogy and Petrology, 2005, 149, 113-128.	3.1	64
16	Kimberlite petrogenesis: Insights from clinopyroxene-melt partitioning experiments at 6 GPa in the CaO-MgO-Al2O3-SiO2-CO2 system. Geochimica Et Cosmochimica Acta, 2005, 69, 2829-2845.	3.9	59
17	C- and S-rich molten alloy immiscibility and core formation of planetesimals. Geochimica Et Cosmochimica Acta, 2008, 72, 2409-2416.	3.9	59
18	CaSiO3and CaTiO3perovskite-melt partitioning of trace elements: Implications for gross mantle differentiation. Geophysical Research Letters, 2002, 29, 39-1-39-4.	4.0	52

#	Article	IF	Citations
19	Oxygen as a light element: A solution to single-stage core formation. Earth and Planetary Science Letters, 2009, 288, 108-114.	4.4	48
20	Trace element partitioning between majoritic garnet and silicate melt at 25GPa. Physics of the Earth and Planetary Interiors, 2004, 143-144, 407-419.	1.9	46
21	Trace element partitioning and substitution mechanisms in calcium perovskites. Contributions To Mineralogy and Petrology, 2005, 149, 85-97.	3.1	44
22	Trace element partitioning between majoritic garnet and silicate melt at 10â€“17 GPa: Implications for deep mantle processes. Lithos, 2012, 148, 128-141.	1.4	36
23	Titanium dioxide nanoparticles provoke transient increase in photosynthetic performance and differential response in antioxidant system in Raphanus sativus L.. Scientia Horticulturae, 2020, 269, 109418.	3.6	28
24	Highly siderophile elements mobility in the subcontinental lithospheric mantle beneath southern Patagonia. Lithos, 2018, 314-315, 579-596.	1.4	27
25	Magmatic platinum nanoparticles in metasomatic silicate glasses and sulfides from Patagonian mantle xenoliths. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	25
26	Atomistic simulations of trace element incorporation into the large site of MgSiO3 and CaSiO3 perovskites. Physics of the Earth and Planetary Interiors, 2003, 139, 113-127.	1.9	24
27	CO2-induced destabilization of pyrite-structured FeO2Hx in the lower mantle. National Science Review, 2018, 5, 870-877.	9.5	15
28	Experimental constraints on metasomatism of mantle wedge peridotites by hybridized adakitic melts. Lithos, 2018, 308-309, 213-226.	1.4	14
29	The procurement and use of knappable glassy volcanic raw material from the late Pleistocene Pilauco site, Chilean Northwestern Patagonia. Geoarchaeology - an International Journal, 2019, 34, 592-612.	1.5	12
30	Unraveling the Effects of Meltâ€“Mantle Interactions on the Gold Fertility of Magmas. Frontiers in Earth Science, 2020, 8, .	1.8	12
31	Peltephilidae and Mesotheriidae (Mammalia) from late Miocene strata of Northern Chilean Andes, Caragua. Journal of South American Earth Sciences, 2017, 75, 51-65.	1.4	8
32	Major and trace element partitioning between majoritic garnet, clinopyroxene, and carbon dioxide-rich liquid in model carbonated peridotite at 10 GPa and interpretations of the element chemistry of majoritic garnet inclusions in diamonds from the subcontinental mantle of Brazil and Guinea. Lithos, 2020, 362-363, 105486.	1.4	1