

# Alexandre Corgne

## List of Publications by Year in descending order

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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	Titanium dioxide nanoparticles provoke transient increase in photosynthetic performance and differential response in antioxidant system in <i>Raphanus sativus</i> L.. <i>Scientia Horticulturae</i> , 2020, 269, 109418.	3.6	28
2	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. <i>Lithos</i> , 2020, 362-363, 105486.	1.4	1
3	Unraveling the Effects of Melt-Mantle Interactions on the Gold Fertility of Magmas. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	12
4	Magmatic platinum nanoparticles in metasomatic silicate glasses and sulfides from Patagonian mantle xenoliths. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	25
5	The procurement and use of knappable glassy volcanic raw material from the late Pleistocene Pilauco site, Chilean Northwestern Patagonia. <i>Geoarchaeology - an International Journal</i> , 2019, 34, 592-612.	1.5	12
6	Experimental constraints on metasomatism of mantle wedge peridotites by hybridized adakitic melts. <i>Lithos</i> , 2018, 308-309, 213-226.	1.4	14
7	CO <sub>2</sub> -induced destabilization of pyrite-structured FeO <sub>2</sub> Hx in the lower mantle. <i>National Science Review</i> , 2018, 5, 870-877.	9.5	15
8	Highly siderophile elements mobility in the subcontinental lithospheric mantle beneath southern Patagonia. <i>Lithos</i> , 2018, 314-315, 579-596.	1.4	27
9	Peltephilidae and Mesotheriidae (Mammalia) from late Miocene strata of Northern Chilean Andes, Caragua. <i>Journal of South American Earth Sciences</i> , 2017, 75, 51-65.	1.4	8
10	Plume-subduction interaction forms large auriferous provinces. <i>Nature Communications</i> , 2017, 8, 843.	12.8	69
11	Silicon isotope variations in the inner solar system: Implications for planetary formation, differentiation and composition. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 67-83.	3.9	80
12	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	68
13	Trace element partitioning between majoritic garnet and silicate melt at 10-17 GPa: Implications for deep mantle processes. <i>Lithos</i> , 2012, 148, 128-141.	1.4	36
14	Systematics of metal-silicate partitioning for many siderophile elements applied to Earth's core formation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1451-1489.	3.9	167
15	Oxygen and silicon contents of Earth's core from high pressure metal-silicate partitioning experiments. <i>Earth and Planetary Science Letters</i> , 2011, 310, 409-421.	4.4	91
16	New host for carbon in the deep Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5184-5187.	7.1	118
17	Melting of Peridotite to 140 Gigapascals. <i>Science</i> , 2010, 329, 1516-1518.	12.6	286
18	No iron isotope fractionation between molten alloys and silicate melt to 2000°C and 7.7 GPa: Experimental evidence and implications for planetary differentiation and accretion. <i>Earth and Planetary Science Letters</i> , 2009, 278, 376-385.	4.4	79

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19	Oxygen as a light element: A solution to single-stage core formation. <i>Earth and Planetary Science Letters</i> , 2009, 288, 108-114.	4.4	48
20	Metal-silicate partitioning and constraints on core composition and oxygen fugacity during Earth accretion. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 574-589.	3.9	160
21	C- and S-rich molten alloy immiscibility and core formation of planetesimals. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2409-2416.	3.9	59
22	How much potassium is in the Earth's core? New insights from partitioning experiments. <i>Earth and Planetary Science Letters</i> , 2007, 256, 567-576.	4.4	81
23	Spin transition and equations of state of (Mg, Fe)O solid solutions. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	152
24	Trace-element fractionation in Hadean mantle generated by melt segregation from a magma ocean. <i>Nature</i> , 2005, 436, 246-249.	27.8	120
25	Trace element partitioning and substitution mechanisms in calcium perovskites. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 85-97.	3.1	44
26	Compositional effects on element partitioning between Mg-silicate perovskite and silicate melts. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 113-128.	3.1	64
27	Silicate perovskite-melt partitioning of trace elements and geochemical signature of a deep perovskitic reservoir. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 485-496.	3.9	163
28	Kimberlite petrogenesis: Insights from clinopyroxene-melt partitioning experiments at 6 GPa in the CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -CO <sub>2</sub> system. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2829-2845.	3.9	59
29	Trace element partitioning between majoritic garnet and silicate melt at 25GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 407-419.	1.9	46
30	Atomistic simulations of trace element incorporation into the large site of MgSiO <sub>3</sub> and CaSiO <sub>3</sub> perovskites. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 139, 113-127.	1.9	24
31	CaSiO <sub>3</sub> and CaTiO <sub>3</sub> perovskite-melt partitioning of trace elements: Implications for gross mantle differentiation. <i>Geophysical Research Letters</i> , 2002, 29, 39-1-39-4.	4.0	52
32	An experimental study of element partitioning between magnetite, clinopyroxene and iron-bearing silicate liquids with particular emphasis on vanadium. <i>Contributions To Mineralogy and Petrology</i> , 2002, 144, 22-37.	3.1	290