

Olivier Alard

List of Publications by Year in descending order

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73
papers

6,350
citations

70961

41
h-index

76769

74
g-index

74
all docs

74
docs citations

74
times ranked

3911
citing authors

#	ARTICLE	IF	CITATIONS
1	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	563
2	Non-chondritic distribution of the highly siderophile elements in mantle sulphides. <i>Nature</i> , 2000, 407, 891-894.	13.7	428
3	Magnesium isotope heterogeneity of the isotopic standard SRM980 and new reference materials for magnesium-isotope-ratio measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1352.	1.6	367
4	The Lherz spinel lherzolite: Refertilized rather than pristine mantle. <i>Earth and Planetary Science Letters</i> , 2007, 259, 599-612.	1.8	305
5	Ancient melt extraction from the oceanic upper mantle revealed by Re-Os isotopes in abyssal peridotites from the Mid-Atlantic ridge. <i>Earth and Planetary Science Letters</i> , 2006, 244, 606-621.	1.8	267
6	Platinum-group element abundances in the upper mantle: new constraints from in situ and whole-rock analyses of Massif Central xenoliths (France). <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2789-2806.	1.6	246
7	New insights into the Re-Os systematics of sub-continental lithospheric mantle from in situ analysis of sulphides. <i>Earth and Planetary Science Letters</i> , 2002, 203, 651-663.	1.8	212
8	In situ Os isotopes in abyssal peridotites bridge the isotopic gap between MORBs and their source mantle. <i>Nature</i> , 2005, 436, 1005-1008.	13.7	190
9	In situ measurement of Re-Os isotopes in mantle sulfides by laser ablation multicollector-inductively coupled plasma mass spectrometry: analytical methods and preliminary results. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1037-1050.	1.6	170
10	Geochemistry of the highly depleted peridotites drilled at ODP Sites 1272 and 1274 (Fifteen-Twenty) Tj ETQq0 0 0 rgBT /Overlock 10 Tf <i>Earth and Planetary Science Letters</i> , 2008, 267, 410-425.	1.8	167
11	Laser-ablation microprobe (LAM)-ICPMS unravels the highly siderophile element geochemistry of the oceanic mantle. <i>Earth and Planetary Science Letters</i> , 2001, 189, 285-294.	1.8	144
12	Platinum-group element systematics and petrogenetic processing of the continental upper mantle: A review. <i>Lithos</i> , 2013, 164-167, 2-21.	0.6	144
13	Platinum-group element micronuggets and refertilization process in Lherz orogenic peridotite (northeastern Pyrenees, France). <i>Earth and Planetary Science Letters</i> , 2010, 289, 298-310.	1.8	142
14	Volatile fractionation in the early solar system and chondrule/matrix complementarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13755-13760.	3.3	138
15	A multi-technique study of platinum group element systematic in some Ligurian ophiolitic peridotites, Italy. <i>Chemical Geology</i> , 2004, 208, 175-194.	1.4	136
16	The scale and origin of the osmium isotope variations in mid-ocean ridge basalts. <i>Earth and Planetary Science Letters</i> , 2007, 259, 541-556.	1.8	133
17	Multiple events in the Neo-Tethyan oceanic upper mantle: Evidence from Ru-Os-Ir alloys in the Luobusa and Dongqiao ophiolitic podiform chromitites, Tibet. <i>Earth and Planetary Science Letters</i> , 2007, 261, 33-48.	1.8	132
18	Sulfur and selenium systematics of the subcontinental lithospheric mantle: Inferences from the Massif Central xenolith suite (France). <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4137-4151.	1.6	127

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19	The Cu isotopic signature of granites from the Lachlan Fold Belt, SE Australia. <i>Chemical Geology</i> , 2009, 258, 38-49.	1.4	115
20	Volatile-rich Metasomatism in Montferrier Xenoliths (Southern France): Implications for the Abundances of Chalcophile and Highly Siderophile Elements in the Subcontinental Mantle. <i>Journal of Petrology</i> , 2011, 52, 2009-2045.	1.1	107
21	Platinum-Group Elements: A New Set of Key Tracers for the Earth's Interior. <i>Elements</i> , 2008, 4, 247-252.	0.5	103
22	Abundance and distribution of platinum-group elements in orogenic lherzolites; a case study in a Fontete Rouge lherzolite (French Pyrenees). <i>Chemical Geology</i> , 2008, 248, 174-194.	1.4	101
23	The relationship between CK and CV chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1684-1705.	1.6	90
24	Incompatible trace element partitioning and residence in anhydrous spinel peridotites and websterites from the Ronda orogenic peridotite. <i>Earth and Planetary Science Letters</i> , 2000, 181, 341-358.	1.8	86
25	Highly siderophile element behaviour accompanying subduction of oceanic crust: Whole rock and mineral-scale insights from a high-pressure terrain. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1394-1416.	1.6	86
26	Determination of intratest variability of trace elements in foraminifera by laser ablation inductively coupled plasma-mass spectrometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	85
27	The compatibility of rhenium and osmium in natural olivine and their behaviour during mantle melting and basalt genesis. <i>Earth and Planetary Science Letters</i> , 2002, 198, 63-76.	1.8	84
28	Mineralogy of carbonaceous chondritic microclasts in howardites: identification of C2 fossil micrometeorites. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 507-527.	1.6	81
29	Enrichment of HFSE in chlorite-harzburgite produced by high-pressure dehydration of antigorite-serpentinite: Implications for subduction magmatism. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	81
30	Isotopic decoupling during porous melt flow: A case-study in the Lherz peridotite. <i>Earth and Planetary Science Letters</i> , 2009, 279, 76-85.	1.8	72
31	Lawsonite metasomatism and trace element recycling in subduction zones. <i>Journal of Metamorphic Geology</i> , 2014, 32, 489-514.	1.6	68
32	The isotopic composition of magnesium in mantle olivine: Records of depletion and metasomatism. <i>Chemical Geology</i> , 2006, 226, 115-133.	1.4	65
33	Type I eclogites from Roberts Victor kimberlites: Products of extensive mantle metasomatism. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6927-6954.	1.6	64
34	Unravelling the effects of melt depletion and secondary infiltration on mantle Re-Os isotopes beneath the French Massif Central. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 293-320.	1.6	63
35	Determination of selenium and tellurium concentrations in Pyrenean peridotites (Ariege, France): New insight into S/Se/Te systematics of the upper in mantle samples. <i>Chemical Geology</i> , 2010, 278, 120-130.	1.4	63
36	Unradiogenic lead in Earth's upper mantle. <i>Nature Geoscience</i> , 2012, 5, 570-573.	5.4	56

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37	Characterization of hydration in the mantle lithosphere: Peridotite xenoliths from the Ontong Java Plateau as an example. <i>Lithos</i> , 2015, 212-215, 189-201.	0.6	56
38	Taking the pulse of the Earth: linking crustal and mantle events. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 983-995.	0.4	52
39	Physical and chemical characteristics of particles produced by laser ablation of biogenic calcium carbonate. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 240-243.	1.6	49
40	Water content and hydrogen behaviour during metasomatism in the uppermost mantle beneath Ray Pic volcano (Massif Central, France). <i>Lithos</i> , 2015, 236-237, 256-274.	0.6	49
41	Platinum group element signature of the primitive mantle rejuvenated by melt-rock reactions: evidence from Sumail peridotites (Oman Ophiolite). <i>Terra Nova</i> , 2009, 21, 35-40.	0.9	48
42	Chondrule trace element geochemistry at the mineral scale. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1695-1714.	0.7	38
43	Relationships between the occurrence of accessory Ge-minerals and sphalerite in Variscan Pb-Zn deposits of the Bossost anticlinorium, French Pyrenean Axial Zone: Chemistry, microstructures and ore-deposit setting. <i>Ore Geology Reviews</i> , 2018, 95, 1-19.	1.1	34
44	Optimisation of laser and mass spectrometer parameters for the <i>in situ</i> analysis of Rb/Sr ratios by LA-ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2322-2336.	1.6	34
45	Hydrogen isotopic composition of water from fossil micrometeorites in howardites. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3431-3443.	1.6	33
46	Trace element geochemistry of ordinary chondrite chondrules: The type I/type II chondrule dichotomy. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 155, 47-67.	1.6	33
47	Diffusional homogenization of light REE in garnet from the Day Nui Con Voi Massif in N-Vietnam: Implications for Sm-Nd geochronology and timing of metamorphism in the Red River shear zone. <i>Chemical Geology</i> , 2012, 318-319, 16-30.	1.4	32
48	Trace element geochemistry of CR chondrite metal. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1981-1999.	0.7	31
49	The formation conditions of enstatite chondrites: Insights from trace element geochemistry of olivine-bearing chondrules in Sahara 97096 (EH3). <i>Meteoritics and Planetary Science</i> , 2015, 50, 1624-1642.	0.7	28
50	Heterogeneous hydrogen distribution in orthopyroxene from veined mantle peridotite (San Carlos, Texas). <i>Earth and Planetary Science Letters</i> , 2000, 177, 107-117.	0.6	28
51	160Ma of sporadic basaltic activity on the Languedoc volcanic line (Southern France): A peculiar case of lithosphere-aesthenosphere interplay. <i>Lithos</i> , 2010, 120, 202-222.	0.6	26
52	Laser ablation ICP-MS study of IIIAB irons and pallasites: constraints on the behaviour of highly siderophile elements during and after planetesimal core formation. <i>Chemical Geology</i> , 2004, 208, 5-28.	1.4	25
53	Pyrite tracks assimilation of crustal sulfur in Pyrenean peridotites. <i>Mineralogy and Petrology</i> , 2011, 101, 115-128.	0.4	24
54	Sulfides and chalcophile elements in Roberts Victor eclogites: Unravelling a sulfide-rich metasomatic event. <i>Chemical Geology</i> , 2013, 354, 73-92.	1.4	22

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55	Nature and Evolution of the Lithospheric Mantle beneath the Hoggar Swell (Algeria): a Record from Mantle Xenoliths. <i>Journal of Petrology</i> , 2014, 55, 2249-2280.	1.1	22
56	Hydrogen, trace, and ultra-trace element distribution in natural olivines. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	20
57	Dating post-Archean lithospheric mantle: Insights from Re-Os and Lu-Hf isotopic systematics of the Cameroon Volcanic Line peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 278, 177-198.	1.6	19
58	Sulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspective. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115969.	1.8	19
59	The provenance of early Iron Age ferrous remains from southeastern Arabia. <i>Journal of Archaeological Science</i> , 2020, 120, 105192.	1.2	19
60	Partitioning of nitrogen during melting and recycling in subduction zones and the evolution of atmospheric nitrogen. <i>Chemical Geology</i> , 2019, 525, 334-342.	1.4	18
61	Insights into the mantle geochemistry of scandium from a meta-analysis of garnet data. <i>Lithos</i> , 2018, 310-311, 409-421.	0.6	16
62	Melting of sediments in the deep mantle produces saline fluid inclusions in diamonds. <i>Science Advances</i> , 2019, 5, eaau2620.	4.7	16
63	Parageneses of TiB ₂ in corundum xenoliths from Mt. Carmel, Israel: Siderophile behavior of boron under reducing conditions. <i>American Mineralogist</i> , 2020, 105, 1609-1621.	0.9	15
64	Subcontinental lithosphere reactivation beneath the Hoggar swell (Algeria): Localized deformation, melt channeling and heat advection. <i>Tectonophysics</i> , 2015, 650, 18-33.	0.9	13
65	Femtosecond Laser Ablation-ICP-Mass Spectrometry and CHNS Elemental Analyzer Reveal Trace Element Characteristics of Danburite from Mexico, Tanzania, and Vietnam. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 234.	0.8	10
66	Influence of redox processes on the germanium isotopic composition of ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 270-291.	1.6	9
67	Reworking of old continental lithosphere: Unradiogenic Os and decoupled Hf Nd isotopes in sub-arc mantle pyroxenites. <i>Lithos</i> , 2020, 354-355, 105346.	0.6	9
68	A volcanic district between the Hoggar uplift and the Tenere Rifts: Volcanology, geochemistry and age of the In-Ezzane lavas (Algerian Sahara). <i>Journal of African Earth Sciences</i> , 2014, 92, 14-20.	0.9	6
69	Nitrogen under Super-Reducing Conditions: Ti Oxynitride Melts in Xenolithic Corundum Aggregates from Mt Carmel (N. Israel). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 780.	0.8	4
70	Eruption dynamics of pleistocene maars and tuff rings from the Azrou-Timahdite district (Middle) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 I characteristics. <i>Journal of African Earth Sciences</i> , 2020, 167, 103845.	0.9	3
71	Condensation and evaporation processes during CB chondrite formation: Insights from Ge isotopes and highly siderophile element abundances. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1191-1211.	0.7	3
72	Highly siderophile element behavior in high temperature processes. <i>Chemical Geology</i> , 2004, 208, 1-4.	1.4	2

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73	Corrigendum to "Sulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspective" [Earth Planet. Sci. Lett. 531 (2020) 115969]. Earth and Planetary Science Letters, 2020, 535, 116136.	1.8	2