

Gilles Chazot

List of Publications by Year in descending order

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64
papers

2,276
citations

201674

27
h-index

214800

47
g-index

64
all docs

64
docs citations

64
times ranked

2070
citing authors

#	ARTICLE	IF	CITATIONS
1	The dependence of Nb and Ta rutile melt partitioning on melt composition and Nb/Ta fractionation during subduction processes. <i>Earth and Planetary Science Letters</i> , 2004, 226, 415-432.	4.4	224
2	Determination of partition coefficients between apatite, clinopyroxene, amphibole, and melt in natural spinel lherzolites from Yemen: Implications for wet melting of the lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 423-437.	3.9	200
3	Oxygen isotopic composition of hydrous and anhydrous mantle peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 161-169.	3.9	123
4	Metasomatism of the shallow mantle beneath Yemen by the Afar plume: Implications for mantle plumes, flood volcanism, and intraplate volcanism. <i>Geology</i> , 1998, 26, 431.	4.4	97
5	Implications of widespread high- $\hat{1}/4$ volcanism on the Arabian Plate for Afar mantle plume and lithosphere composition. <i>Chemical Geology</i> , 2003, 198, 47-61.	3.3	94
6	Unraveling climatic changes from intraprofile variation in oxygen and hydrogen isotopic composition of goethite and kaolinite in laterites: an integrated study from Yaou, French Guiana. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 409-426.	3.9	78
7	Metasomatism in the Lithospheric Mantle beneath Middle Atlas (Morocco) and the Origin of Fe- and Mg-rich Wehrlites. <i>Journal of Petrology</i> , 2009, 50, 197-249.	2.8	77
8	Silicate glasses in spinel lherzolites from Yemen: origin and chemical composition. <i>Chemical Geology</i> , 1996, 134, 159-179.	3.3	73
9	Trace element distribution in peridotite xenoliths from Tok, SE Siberian craton: A record of pervasive, multi-stage metasomatism in shallow refractory mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1231-1260.	3.9	71
10	Partitioning of phosphorus between olivine, clinopyroxene and silicate glass in a spinel lherzolite xenolith from Yemen. <i>Chemical Geology</i> , 2001, 176, 51-72.	3.3	65
11	Genesis of silicic magmas during tertiary continental rifting in Yemen. <i>Lithos</i> , 1995, 36, 69-83.	1.4	60
12	Nitrogen in peridotite xenoliths: Lithophile behavior and magmatic isotope fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4843-4861.	3.9	60
13	Mantle sources and magma continental crust interactions during early Red Sea Gulf of Aden rifting in southern Yemen: Elemental and Sr, Nd, Pb isotope evidence. <i>Journal of Geophysical Research</i> , 1993, 98, 1819-1835.	3.3	59
14	Mantle sources and magma evolution beneath the Cameroon Volcanic Line: Geochemistry of mafic rocks from the Bamenda Mountains (NW Cameroon). <i>Gondwana Research</i> , 2013, 24, 727-741.	6.0	59
15	chronology of tertiary magmatic activity in Southern Yemen during the early Red Sea-Aden rifting. <i>Journal of Volcanology and Geothermal Research</i> , 1995, 65, 265-279.	2.1	56
16	Lithospheric Mantle Evolution during Continental Break-Up: The West Iberia Non-Volcanic Passive Margin. <i>Journal of Petrology</i> , 2005, 46, 2527-2568.	2.8	56
17	Adakitic magmas in the Ecuadorian Volcanic Front: Petrogenesis of the Iliniza Volcanic Complex (Ecuador). <i>Journal of Volcanology and Geothermal Research</i> , 2007, 159, 366-392.	2.1	54
18	Fluid processes in diamond to spinel facies shallow mantle. <i>Journal of Geodynamics</i> , 1995, 20, 387-415.	1.6	49

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19	Geochemistry and geochronology of mafic rocks from Bamenda Mountains (Cameroon): Source composition and crustal contamination along the Cameroon Volcanic Line. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 850-857.	1.2	49
20	Evolving metasomatic agent in the Northern Andean subduction zone, deduced from magma composition of the long-lived Pichincha volcanic complex (Ecuador). <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 239-260.	3.1	49
21	G�ochimie et g�ochronologie des laves felsiques des monts Bamenda (ligne volcanique du Cameroun). <i>Comptes Rendus - Geoscience</i> , 2007, 339, 659-666.	1.2	45
22	Rainfall chemistry: long range transport versus below cloud scavenging. A two-year study at an inland station (Opme, France). <i>Journal of Atmospheric Chemistry</i> , 2008, 60, 253-271.	3.2	44
23	A 17 Ma onset for the post-collisional K-rich calc-alkaline magmatism in the Maghrebides: Evidence from Bougaroun (northeastern Algeria) and geodynamic implications. <i>Tectonophysics</i> , 2016, 674, 114-134.	2.2	38
24	An overview on the origin of post-collisional Miocene magmatism in the Kabylies (northern Algeria): Evidence for crustal stacking, delamination and slab detachment. <i>Journal of African Earth Sciences</i> , 2017, 125, 27-41.	2.0	34
25	L'�trog�n� du manteau sup�rieur � l'aplomb du volcan de Nyos (Cameroun) r�v�l�e par les enclaves ultrabasiques. <i>Comptes Rendus - Geoscience</i> , 2004, 336, 1239-1244.	1.2	32
26	Melting textures and microdiamonds preserved in graphite pseudomorphs from the Beni Bousera peridotite massif, Morocco. <i>European Journal of Mineralogy</i> , 2011, 23, 157-168.	1.3	32
27	Age, geochemical characteristics and petrogenesis of Cenozoic intraplate alkaline volcanic rocks in the Bafang region, West Cameroon. <i>Journal of African Earth Sciences</i> , 2015, 102, 218-232.	2.0	31
28	Mingling of Immiscible Dolomite Carbonatite and Trachyte in Tuffs from the Massif Central, France. <i>Journal of Petrology</i> , 2003, 44, 1917-1936.	2.8	26
29	Mantle refertilization and magmatism in old orogenic regions: The role of late-orogenic pyroxenites. <i>Lithos</i> , 2015, 232, 49-75.	1.4	24
30	LiDAR offshore structural mapping and U/Pb zircon/monazite dating of Variscan strain in the Leon metamorphic domain, NW Brittany. <i>Tectonophysics</i> , 2014, 630, 236-250.	2.2	23
31	Late Pleistocene and Holocene activity of the Atacazo�Ninahuilca Volcanic Complex (Ecuador). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 16-26.	2.1	20
32	Extreme source heterogeneity and complex contamination patterns along the Cameroon Volcanic Line: New geochemical data from the Bamoun plateau. <i>Comptes Rendus - Geoscience</i> , 2018, 350, 100-109.	1.2	20
33	Tracing helium isotope compositions from mantle source to fumaroles at Oldoinyo Lengai volcano, Tanzania. <i>Chemical Geology</i> , 2018, 480, 66-74.	3.3	18
34	Temporal magma source changes at Gaua volcano, Vanuatu island arc. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 30-47.	2.1	16
35	Carbonatite Metasomatism and Melting of the Arabian Lithosphere: Evidence from Oxygen Isotopes and Trace Element Composition of Spinel Lherzolites. <i>Mineralogical Magazine</i> , 1994, 58A, 167-168.	1.4	16
36	Volcanic and hydrothermal processes in submarine calderas: The Kulo Lasi example (SW Pacific). <i>Ore Geology Reviews</i> , 2018, 99, 314-343.	2.7	15

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37	Trace element variations in an archeological carbonate deposit from the antique city of Ostia: Environmental and archeological implications. <i>Comptes Rendus - Geoscience</i> , 2009, 341, 10-20.	1.2	14
38	Co-eruption of carbonate and silicate magmas during volcanism in the Limagne graben (French Massif) <i>Tj ETQq0 0 0 rBT /Overlock 10 T</i>	1.48	14
39	Temporal source evolution and crustal contamination at Lopevi Volcano, Vanuatu Island Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 264, 72-84.	2.1	11
40	Mantle sources beneath the Cameroon Volcanic Line: geochemistry and geochronology of the Bamoun plateau mafic rocks. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	11
41	Cenozoic plume evolution and flood basalts in Yemen: A key to understanding older examples. , 2001, , .		9
42	Evolution of the Red Sea Volcanic Margin, Western Yemen. <i>Geophysical Monograph Series</i> , 0, , 29-43.	0.1	9
43	Eemian estuarine record forced by glacio-isostasy (southern Iceland)â€™link with Greenland and deep sea records. <i>Canadian Journal of Earth Sciences</i> , 2018, 55, 154-171.	1.3	9
44	Tectonism and volcanism enhanced by deglaciation events in southern Iceland. <i>Quaternary Research</i> , 2020, 94, 94-120.	1.7	9
45	Lithospheric mantle beneath Arabia: A Pan-African protolith modified by the Afar and older plumes, rather than a source for continental flood volcanism?. , 2002, , .		9
46	Softening of sub-continental lithosphere prior rifting: Evidence from clinopyroxene chemistry in peridotite xenoliths from Natash volcanic province, SE Egypt. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 84-98.	2.1	8
47	Tracing the HIMU component within Pan-African lithosphere beneath northeast Africa: Evidence from Late Cretaceous Natash alkaline volcanics, Egypt. <i>Lithos</i> , 2018, 300-301, 136-153.	1.4	8
48	The Red Beds series in the Erta Ale segment, North Afar. Evidence for a 6â€™Ma-old post-rift basin prior to continental rupturing. <i>Tectonophysics</i> , 2018, 747-748, 373-389.	2.2	8
49	The Norfolk Ridge seamounts: Eoceneâ€™Miocene volcanoes near Zealandiaâ€™s rifted continental margin. <i>Australian Journal of Earth Sciences</i> , 2021, 68, 368-380.	1.0	8
50	CMAS 3D, a new program to visualize and project major elements compositions in the CMAS system. <i>Computers and Geosciences</i> , 2009, 35, 1304-1310.	4.2	7
51	Amphibole genesis in pyroxenites from the Beni Bousera peridotite massif (Rif, Morocco): Evidence for two different metasomatic episodes. <i>Lithos</i> , 2014, 208-209, 67-80.	1.4	7
52	Geochemical study of carbonate concretions from the aqueduct of NÃ®mes (southern France): a climatic record for the first centuries AD?. <i>Scientific Reports</i> , 2019, 9, 5209.	3.3	7
53	Unravelling carbonatiteâ€™silicate magma interaction dynamics: A case study from the Velay province (Massif Central, France). <i>Lithos</i> , 2010, 116, 53-64.	1.4	6
54	Metamorphic and magmatic overprint of garnet pyroxenites from the Beni Bousera massif (northern) <i>Tj ETQq0 0 0 rBT /Overlock 10 T</i>	1.4	5

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55	Interaction entre lithosphère et asthénosphère au cours de l'ouverture océanique : données isotopiques préliminaires sur la Marge passive de Galice (Atlantique-Nord). Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 1998, 326, 757-762.	0.2	4
56	Bimodal zircon ages from Natash volcanics (southeast Egypt) and the link between eruption mechanisms and Late Cretaceous tectonics. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	4
57	Origin of zircon megacrysts in alkaline lavas (French Massif Central): Petrology and in situ U-Pb-Hf isotopes. Journal of Volcanology and Geothermal Research, 2020, 399, 106907.	2.1	4
58	Volcanoes and climate: the triggering of preboreal Jökulhlaups in Iceland. International Journal of Earth Sciences, 2020, 109, 847-876.	1.8	4
59	Mantle metasomatic influence on water contents in continental lithosphere: New constraints from garnet pyroxenite xenoliths (France & Cameroon volcanic provinces). Chemical Geology, 2021, 575, 120257.	3.3	4
60	Analogues of exhumed pyroxenite layers in the Alboran domain sampled as xenoliths by Middle Atlas Cenozoic volcanism. Lithos, 2015, 230, 184-188.	1.4	3
61	New chronostratigraphic constraints on the emplacement of Miocene high-K calc-alkaline igneous rocks from West Edough-Cap de Fer, NE Algeria. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	2
62	Mantle source evolution beneath the Cameroon volcanic line: geochemical and geochronological evidences from Fotouni volcanic series, Western Cameroon. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	2
63	Pure forsterite in Nyiragongo lavas: evidence for subsolidus oxidation of volcanic rocks. Acta Geochimica, 2022, 41, 12-23.	1.7	2
64	Origin and Evolution of the Fatu Kapa Magmatic System (North-Western Lau Back-arc Basin): Insight on the Genesis of High-Silica Lavas. Journal of Petrology, 2021, 62, .	2.8	1