

Marcel Regelous

List of Publications by Year in descending order

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44
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2,829
citations

172457

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44
docs citations

44
times ranked

2634
citing authors

#	ARTICLE	IF	CITATIONS
1	Magmatism and continental break-up in the South Atlantic: high precision ^{40}Ar - ^{39}Ar geochronology. <i>Earth and Planetary Science Letters</i> , 1994, 121, 333-348.	4.4	382
2	Geochemistry of near-EPR seamounts: importance of source vs. process and the origin of enriched mantle component. <i>Earth and Planetary Science Letters</i> , 2002, 199, 327-345.	4.4	230
3	Origin of enriched-type mid-ocean ridge basalt at ridges far from mantle plumes: The East Pacific Rise at $11^{\circ}20'\text{N}$. <i>Journal of Geophysical Research</i> , 1999, 104, 7067-7087.	3.3	220
4	Nickel isotope heterogeneity in the early Solar System. <i>Earth and Planetary Science Letters</i> , 2008, 272, 330-338.	4.4	174
5	Variations in the geochemistry of magmatism on the East Pacific Rise at $10^{\circ}30'\text{N}$ since 800 ka. <i>Earth and Planetary Science Letters</i> , 1999, 168, 45-63.	4.4	144
6	Contrasting geochemical patterns in the $3.7\text{--}3.8$ Ga pillow basalt cores and rims, Isua greenstone belt, Southwest Greenland: implications for postmagmatic alteration processes. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 441-457.	3.9	137
7	The age of Rubisco: the evolution of oxygenic photosynthesis. <i>Geobiology</i> , 2007, 5, 311-335.	2.4	111
8	Geochemistry of lavas from the Garrett Transform Fault: insights into mantle heterogeneity beneath the eastern Pacific. <i>Earth and Planetary Science Letters</i> , 1999, 173, 271-284.	4.4	109
9	Paran�j magmatism and the opening of the South Atlantic. <i>Geological Society Special Publication</i> , 1992, 68, 221-240.	1.3	103
10	Confirmation of mass-independent Ni isotopic variability in iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7906-7925.	3.9	96
11	Constraints on past plate and mantle motion from new ages for the Hawaiian�Emperor Seamount Chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4564-4584.	2.5	95
12	High magmatic flux during Alpine-Himalayan collision: Constraints from the Kal-e-Kafi complex, central Iran. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 857-868.	3.3	85
13	NEUTRON-POOR NICKEL ISOTOPE ANOMALIES IN METEORITES. <i>Astrophysical Journal</i> , 2012, 758, 59.	4.5	83
14	Measurement of Femtogram Quantities of Protactinium in Silicate Rock Samples by Multicollector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 3584-3589.	6.5	69
15	Shallow origin for South Atlantic Dupal Anomaly from lower continental crust: Geochemical evidence from the Mid-Atlantic Ridge at 26°S . <i>Lithos</i> , 2009, 112, 57-72.	1.4	58
16	High mantle temperatures following rifting caused by continental insulation. <i>Nature Geoscience</i> , 2013, 6, 391-394.	12.9	56
17	Formation of the Troodos Ophiolite at a triple junction: Evidence from trace elements in volcanic glass. <i>Chemical Geology</i> , 2014, 386, 66-79.	3.3	50
18	Volcanism on the flanks of the East Pacific Rise: Quantitative constraints on mantle heterogeneity and melting processes. <i>Chemical Geology</i> , 2012, 298-299, 41-56.	3.3	48

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19	Lithospheric control on geochemical composition along the Louisville Seamount Chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	46
20	Louisville Seamount Chain: Petrogenetic processes and geochemical evolution of the mantle source. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2380-2400.	2.5	42
21	Partial melting processes above subducting plates: Constraints from ^{231}Pa – ^{235}U disequilibria. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 480-503.	3.9	39
22	Mantle dynamics and mantle melting beneath Niuafoou Island and the northern Lau back-arc basin. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 103-118.	3.1	39
23	Mechanism and timing of Pb transport from subducted oceanic crust and sediment to the mantle source of arc lavas. <i>Chemical Geology</i> , 2010, 273, 46-54.	3.3	36
24	Petrogenesis of peralkaline rhyolites in an intra-plate setting: Glass House Mountains, southeast Queensland, Australia. <i>Lithos</i> , 2015, 216-217, 196-210.	1.4	35
25	Tracing the evolving flux from the subducting plate in the Tonga-Kermadec arc system using boron in volcanic glass. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3347-3364.	3.9	34
26	Insights into mantle composition and mantle melting beneath mid-ocean ridges from postspreading volcanism on the fossil Galapagos Rise. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	32
27	^{147}Sm – ^{143}Nd , ^{146}Sm – ^{142}Nd systematics of early Archaean rocks and implications for crust-mantle evolution. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3513-3520.	3.9	31
28	Neogene glaciogenic debris flows on James Ross Island, northern Antarctic Peninsula, and their implications for regional climate history. <i>Quaternary Science Reviews</i> , 2009, 28, 3138-3160.	3.0	30
29	Thallium isotopes as tracers of recycled materials in subduction zones: Review and new data for lavas from Tonga-Kermadec and Central America. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 339, 23-40.	2.1	30
30	Trace Element and Isotope Geochemistry of the Northern and Central Tongan Islands with an Emphasis on the Genesis of High Nb/Ta Signatures at the Northern Volcanoes of Tafahi and Niuaotupapu. <i>Journal of Petrology</i> , 2017, 58, 1073-1106.	2.8	24
31	Spatial variability of source composition and petrogenesis in rift and rift flank alkaline lavas from the Eger Rift, Central Europe. <i>Chemical Geology</i> , 2017, 455, 304-314.	3.3	23
32	Evidence for melting of subducting carbonate-rich sediments in the western Aegean Arc. <i>Chemical Geology</i> , 2018, 483, 463-473.	3.3	22
33	Geochemical mapping of a paleo-subduction zone beneath the Troodos Ophiolite. <i>Chemical Geology</i> , 2019, 523, 1-8.	3.3	22
34	Controls on melting at spreading ridges from correlated abyssal peridotite – mid-ocean ridge basalt compositions. <i>Earth and Planetary Science Letters</i> , 2016, 449, 1-11.	4.4	18
35	The timescales of magma evolution at mid-ocean ridges. <i>Lithos</i> , 2016, 240-243, 49-68.	1.4	15
36	Petrogenesis of Hawaiian postshield lavas: Evidence from Nintoku Seamount, Emperor Seamount Chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	13

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37	Rapid determination of 26 elements in iron meteorites using matrix removal and membrane desolvating quadrupole ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 2379-2387.	3.0	12
38	Measurement of Femtogram Quantities of Protactinium in Silicate Rock Samples by Multicollector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 344-344.	6.5	10
39	Constraints on the Northwestern Atlantic Deep Water Circulation From ²³¹ Pa/ ²³⁰ Th During the Last 30,000 Years. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1945-1958.	2.9	8
40	Tellurium in Late Permian–Early Triassic Sediments as a Proxy for Siberian Flood Basalt Volcanism. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009064.	2.5	6
41	Chemical Evolution of Calc-alkaline Magmas during the Ascent through Continental Crust: Constraints from Methana, Aegean Arc. <i>Journal of Petrology</i> , 2020, 61, .	2.8	5
42	Effects of the Hydrous Domain in the Mantle Wedge on Magma Formation and Mixing at the Northeast Lau Spreading Center, SW Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	3
43	Extreme geochemical heterogeneity beneath the North Tonga Arc: Interaction of a subduction zone with intraplate seamount chains. <i>Chemical Geology</i> , 2022, 603, 120903.	3.3	3
44	Inverse response of ²³¹ Pa/ ²³⁰ Th to variations of the Atlantic meridional overturning circulation in the North Atlantic intermediate water. <i>Geo-Marine Letters</i> , 2020, 40, 75-87.	1.1	1