Peter J Michael

List of Publications by Year
in descending order

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46 papers	4,500 citations	172457 29 h-index	233421 45 g-index
47 all docs	47 docs citations	47 times ranked	3006 citing authors

#	Article	IF	Citations
1	Regionally distinctive sources of depleted MORB: Evidence from trace elements and H2O. Earth and Planetary Science Letters, 1995, 131, 301-320.	4.4	367
2	Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel ridge, Arctic Ocean. Nature, 2003, 423, 956-961.	27.8	366
3	Mantle peridotites from continental rifts to ocean basins to subduction zones. Earth and Planetary Science Letters, 1989, 91, 297-311.	4.4	317
4	The concentration, behavior and storage of H2O in the suboceanic upper mantle: Implications for mantle metasomatism. Geochimica Et Cosmochimica Acta, 1988, 52, 555-566.	3.9	298
5	Influence of spreading rate and magma supply on crystallization and assimilation beneath mid-ocean ridges: Evidence from chlorine and major element chemistry of mid-ocean ridge basalts. Journal of Geophysical Research, 1998, 103, 18325-18356.	3.3	291
6	Peridotite composition from the North Atlantic: regional and tectonic variations and implications for partial melting. Earth and Planetary Science Letters, 1985, 73, 91-104.	4.4	229
7	Chlorine in mid-ocean ridge magmas: Evidence for assimilation of seawater-influenced components. Geochimica Et Cosmochimica Acta, 1989, 53, 3131-3143.	3.9	212
8	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. Nature, 2003, 421, 252-256.	27.8	206
9	Chemical and isotopic constraints on the generation and transport of magma beneath the East Pacific Rise. Geochimica Et Cosmochimica Acta, 2002, 66, 3481-3504.	3.9	195
10	Active submarine eruption of boninite in the northeastern Lau Basin. Nature Geoscience, 2011, 4, 799-806.	12.9	163
11	Chlorine stable isotope composition of the oceanic crust: Implications for Earth's distribution of chlorine. Earth and Planetary Science Letters, 1995, 131, 427-432.	4.4	142
12	Chemical differentiation of the Bishop Tuff and other high-silica magmas through crystallization processes. Geology, 1983, 11, 31.	4.4	123
13	The influence of primary magma composition, H2O and pressure on mid-ocean ridge basalt differentiation. Contributions To Mineralogy and Petrology, 1987, 96, 245-263.	3.1	122
14	Chemistry of hot springs along the Eastern Lau Spreading Center. Geochimica Et Cosmochimica Acta, 2011, 75, 1013-1038.	3.9	121
15	MORB generation beneath the ultraslow spreading Southwest Indian Ridge (9â€“25Â°E): Major element chemistry and the importance of process versus source. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	113
16	Partition coefficients for rare earth elements in mafic minerals of high silica rhyolites: The importance of accessory mineral inclusions. Geochimica Et Cosmochimica Acta, 1988, 52, 275-282.	3.9	108
17	Age and geochemistry of the oceanic Manihiki Plateau, SW Pacific: New evidence for a plume origin. Earth and Planetary Science Letters, 2011, 304, 135-146.	4.4	99
18	Origin of a â€˜Southern Hemisphereâ€™ geochemical signature in the Arctic upper mantle. Nature, 2008, 453, 89-93.	27.8	96

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19	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	93
20	Origins of chemical diversity of backâ€arc basin basalts: A segmentâ€scale study of the Eastern Lau Spreading Center. Journal of Geophysical Research, 2009, 114, .	3.3	76
21	Chemical differentiation of the Cordillera Paine granite (southern Chile) by in situ fractional crystallization. Contributions To Mineralogy and Petrology, 1984, 87, 179-195.	3.1	74
22	The behavior and concentration of CO2 in the suboceanic mantle: Inferences from undegassed ocean ridge and ocean island basalts. Lithos, 2015, 236-237, 338-351.	1.4	73
23	Compositional variation in a steady-state zoned magma chamber: Mid-Atlantic Ridge at 36Â°50â€²N. Tectonophysics, 1979, 55, 63-85.	2.2	71
24	Mantle control of a dynamically evolving spreading center: Mid-Atlantic Ridge 31â€“34Â°S. Earth and Planetary Science Letters, 1994, 121, 451-468.	4.4	70
25	Chemical and Physical Indicators of Compromised Melt Inclusions. Geochimica Et Cosmochimica Acta, 1998, 62, 831-839.	3.9	59
26	Intrusion of basaltic magma into a crystallizing granitic magma chamber: The Cordillera del Paine pluton in southern Chile. Contributions To Mineralogy and Petrology, 1991, 108, 396-418.	3.1	53
27	Petrologic and geologic variations along the Southern Explorer Ridge, northeast Pacific Ocean. Journal of Geophysical Research, 1989, 94, 13895-13918.	3.3	47
28	Depleted melt inclusions in MORB plagioclase: messages from the mantle or mirages from the magma chamber?. Chemical Geology, 2002, 183, 43-61.	3.3	39
29	The Tuzo Wilson Volcanic Field, NE Pacific: Alkaline volcanism at a complex, diffuse, transformâ€trenchâ€ridge triple junction. Journal of Geophysical Research, 1993, 98, 22367-22387.	3.3	33
30	The origin of the Naturaliste Plateau, SE Indian Ocean: Implications from dredged basalts. Journal of the Geological Society of Australia, 1982, 29, 457-468.	0.6	31
31	An isotopically distinct Zealandiaâ€“Antarctic mantle domain in the Southern Ocean. Nature Geoscience, 2019, 12, 206-214.	12.9	28
32	Implications for magmatic processes at Ontong Java Plateau from volatile and major element contents of Cretaceous basalt glasses. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	2.5	25
33	Spatial and Temporal Scale of Mantle Enrichment at the Endeavour Segment, Juan de Fuca Ridge. Journal of Petrology, 2016, 57, 863-896.	2.8	25
34	Links from Mantle to Microbe at the Lau Integrated Study Site: Insights from a Back-Arc Spreading Center. Oceanography, 2012, 25, 62-77.	1.0	24
35	Ultra-depleted melts in olivine-hosted melt inclusions from the Ontong Java Plateau. Chemical Geology, 2015, 414, 124-137.	3.3	24
36	Comment and Reply on â€˜Chemical differentiation of the Bishop Tuff and other high-silica magmas through crystallization processesâ€™. Geology, 1983, 11, 623.	4.4	16

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37	Extreme incompatibility of helium during mantle melting: Evidence from undegassed mid-ocean ridge basalts. Earth and Planetary Science Letters, 2016, 454, 192-202.	4.4	15
38	Search for Magnetic Monopoles in Polar Volcanic Rocks. Physical Review Letters, 2013, 110, 121803.	7.8	11
39	An investigation of mid-ocean ridge degassing using He, CO2, and Î´13C variations during the 2005â€“06 eruption at 9Â°50â€²N on the East Pacific Rise. Earth and Planetary Science Letters, 2018, 504, 84-93.	4.4	11
40	Lava without the fizz. Nature, 2002, 419, 445-446.	27.8	8
41	Predominantly recycled carbon in Earth's upper mantle revealed by He-CO2-Ba systematics in ultradepleted ocean ridge basalts. Earth and Planetary Science Letters, 2021, 554, 116646.	4.4	8
42	Petrogenesis of basalts along the eastern Woodlark spreading center, equatorial western Pacific. Lithos, 2018, 316-317, 122-136.	1.4	6
43	Making a Crust. Science, 2009, 323, 1017-1018.	12.6	4
44	Multi-stage melting of enriched mantle components along the eastern Gakkel Ridge. Chemical Geology, 2021, 586, 120594.	3.3	4
45	Thermochemical anomalies in the upper mantle control Gakkel Ridge accretion. Nature Communications, 2021, 12, 6962.	12.8	4
46	A back-arc in time. Nature, 2011, 469, 170-171.	27.8	0