Peter J Michael

List of Publications by Year
in descending order

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	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
2	Multi-stage melting of enriched mantle components along the eastern Gakkel Ridge. Chemical Geology, 2021, 586, 120594.	3.3	4
3	Thermochemical anomalies in the upper mantle control Gakkel Ridge accretion. Nature Communications, 2021, 12, 6962.	12.8	4
4	An isotopically distinct Zealandiaâ€"Antarctic mantle domain in the Southern Ocean. Nature Geoscience, 2019, 12, 206-214.	12.9	28
5	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
6	Petrogenesis of basalts along the eastern Woodlark spreading center, equatorial western Pacific. Lithos, 2018, 316-317, 122-136.	1.4	6
7	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
8	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
9	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
10	Ultra-depleted melts in olivine-hosted melt inclusions from the Ontong Java Plateau. Chemical Geology, 2015, 414, 124-137.	3.3	24
11	Search for Magnetic Monopoles in Polar Volcanic Rocks. Physical Review Letters, 2013, 110, 121803.	7.8	11
12	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
13	Chemistry of hot springs along the Eastern Lau Spreading Center. Geochimica Et Cosmochimica Acta, 2011, 75, 1013-1038.	3.9	121
14	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
15	A back-arc in time. Nature, 2011, 469, 170-171.	27.8	0
16	Active submarine eruption of boninite in the northeastern Lau Basin. Nature Geoscience, 2011, 4, 799-806.	12.9	163
17	Making a Crust. Science, 2009, 323, 1017-1018.	12.6	4
18	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

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19	Origin of a â€˜Southern Hemisphereâ€™ geochemical signature in the Arctic upper mantle. Nature, 2008, 453, 89-93.	27.8	96
20	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
21	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	93
22	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. Nature, 2003, 421, 252-256.	27.8	206
23	Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel ridge, Arctic Ocean. Nature, 2003, 423, 956-961.	27.8	366
24	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
25	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
26	Lava without the fizz. Nature, 2002, 419, 445-446.	27.8	8
27	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
28	Chemical and Physical Indicators of Compromised Melt Inclusions. Geochimica Et Cosmochimica Acta, 1998, 62, 831-839.	3.9	59
29	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
30	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
31	Regionally distinctive sources of depleted MORB: Evidence from trace elements and H2O. Earth and Planetary Science Letters, 1995, 131, 301-320.	4.4	367
32	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
33	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
34	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
35	Chlorine in mid-ocean ridge magmas: Evidence for assimilation of seawater-influenced components. Geochimica Et Cosmochimica Acta, 1989, 53, 3131-3143.	3.9	212
36	Mantle peridotites from continental rifts to ocean basins to subduction zones. Earth and Planetary Science Letters, 1989, 91, 297-311.	4.4	317

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37	Petrologic and geologic variations along the Southern Explorer Ridge, northeast Pacific Ocean. Journal of Geophysical Research, 1989, 94, 13895-13918.	3.3	47
38	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
39	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
40	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
41	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
42	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
43	Chemical differentiation of the Bishop Tuff and other high-silica magmas through crystallization processes. Geology, 1983, 11, 31.	4.4	123
44	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
45	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
46	Compositional variation in a steady-state zoned magma chamber: Mid-Atlantic Ridge at 36Â°50â€²N. Tectonophysics, 1979, 55, 63-85.	2.2	71