Paul J Wallace

List of Publications by Year
in descending order

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60 papers	4,783 citations	109321 35 h-index	155660 55 g-index
60 all docs	60 docs citations	60 times ranked	2893 citing authors

#	Article	IF	Citations
1	Magmatic Volatiles. , 2021, , 301-312.		2
2	Olivine-Hosted Melt Inclusions: A Microscopic Perspective on a Complex Magmatic World. Annual Review of Earth and Planetary Sciences, 2021, 49, 465-494.	11.0	27
3	Chapter 7.2â€ƒMount Erebus. Geological Society Memoir, 2021, 55, 695-739.	1.7	15
4	The petrologic and degassing behavior of sulfur and other magmatic volatiles from the 2018 eruption of KÄ«lauea, HawaiÊ»i: melt concentrations, magma storage depths, and magma recycling. Bulletin of Volcanology, 2021, 83, 1.	3.0	25
5	Improving the reliability of Fe- and S-XANES measurements in silicate glasses: Correcting beam damage and identifying Fe-oxide nanolites in hydrous and anhydrous melt inclusions. Chemical Geology, 2021, 586, 120610.	3.3	14
6	Vapor-bubble growth in olivine-hosted melt inclusions. American Mineralogist, 2020, 105, 1898-1919.	1.9	33
7	Direct measurements of copper speciation in basaltic glasses: understanding the relative roles of sulfur and oxygen in copper complexation in melts. Geochimica Et Cosmochimica Acta, 2019, 267, 164-178.	3.9	15
8	Inferring magma ascent timescales and reconstructing conduit processes in explosive rhyolitic eruptions using diffusive losses of hydrogen from melt inclusions. Journal of Volcanology and Geothermal Research, 2019, 369, 95-112.	2.1	42
9	Evacuation of multiple magma bodies and the onset of caldera collapse in a supereruption, captured in glass and mineral compositions. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	29
10	Magma storage below Cascades shield volcanoes as inferred from melt inclusion data: A comparison of long-lived and short-lived magma plumbing systems. Journal of Volcanology and Geothermal Research, 2018, 368, 1-12.	2.1	4
11	The nature and evolution of mantle upwelling at Ross Island, Antarctica, with implications for the source of HIMU lavas. Earth and Planetary Science Letters, 2018, 498, 38-53.	4.4	42
12	Ascent rates of rhyolitic magma at the onset of three caldera-forming eruptions. American Mineralogist, 2018, 103, 952-965.	1.9	35
13	Volatiles and Exsolved Vapor in Volcanic Systems. Elements, 2017, 13, 29-34.	0.5	97
14	Catastrophic Caldera-Forming (CCF) Monotonous Silicic Magma Reservoirs: Constraints from Volatiles in Melt Inclusions from the 3Â·49 Ma Tara Supereruption, Guacha II Caldera, SW Bolivia. Journal of Petrology, 2017, 58, 2115-2142.	2.8	7
15	Reconstructing CO2 concentrations in basaltic melt inclusions using Raman analysis of vapor bubbles. Journal of Volcanology and Geothermal Research, 2016, 323, 148-162.	2.1	57
16	Magma transport and olivine crystallization depths in KÄ«laueaâ€™s east rift zone inferred from experimentally rehomogenized melt inclusions. Geochimica Et Cosmochimica Acta, 2016, 185, 232-250.	3.9	39
17	Prolonged ascent and episodic venting of discrete magma batches at the onset of the Huckleberry Ridge supereruption, Yellowstone. Earth and Planetary Science Letters, 2016, 451, 285-297.	4.4	71
18	Initiation of large-volume silicic centers in the Yellowstone hotspot track: insights from H2O- and F-rich quartz-hosted rhyolitic melt inclusions in the Arbon Valley Tuff of the Snake River Plain. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	10

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19	Deciphering post-caldera volcanism: insight into the Vulcanello (Island of Vulcano, Southern Italy) eruptive activity based on geological and petrological constraints. Bulletin of Volcanology, 2015, 77, 1.	3.0	31
20	Volatiles in Magmas. , 2015, , 163-183.		80
21	Melt inclusion CO2 contents, pressures of olivine crystallization, and the problem of shrinkage bubbles. American Mineralogist, 2015, 100, 787-794.	1.9	128
22	Bubbles matter: An assessment of the contribution of vapor bubbles to melt inclusion volatile budgets. American Mineralogist, 2015, 100, 806-823.	1.9	175
23	Zonation of H2O and F Concentrations around Melt Inclusions in Olivines. Journal of Petrology, 2014, 55, 685-707.	2.8	68
24	Magmaâ€“iceâ€“sediment interactions and the origin of lava/hyaloclastite sequences in the SÃÃ°a formation, South Iceland. Bulletin of Volcanology, 2014, 76, 1.	3.0	8
25	Replenishment of volatile-rich mafic magma into a degassed chamber drives mixing and eruption of Tungurahua volcano. Bulletin of Volcanology, 2014, 76, 1.	3.0	32
26	Contrasting behaviours of CO2, S, H2O and halogens (F, Cl, Br, and I) in enriched-mantle melts from Pitcairn and Society seamounts. Chemical Geology, 2014, 370, 69-81.	3.3	80
27	Why do mafic arc magmas contain â^¼4wt% water on average?. Earth and Planetary Science Letters, 2013, 364, 168-179.	4.4	409
28	An issue honoring Ian S. E. Carmichael. Contributions To Mineralogy and Petrology, 2013, 166, 655-663.	3.1	0
29	Experimental constraints on the origins of primitive potassic lavas from the Trans-Mexican Volcanic Belt. Contributions To Mineralogy and Petrology, 2013, 166, 825-843.	3.1	14
30	Global variations in H₂O/Ce: 2. Relationships to arc magma geochemistry and volatile fluxes. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	95
31	Global variations in H₂O/Ce: 1. Slab surface temperatures beneath volcanic arcs. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	122
32	The sources of volatile and fluidâ€mobile elements in the Sunda arc: A melt inclusion study from Kawah Ijen and Tambora volcanoes, Indonesia. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	23
33	Experimental insights into the formation of high-Mg basaltic andesites in the trans-Mexican volcanic belt. Contributions To Mineralogy and Petrology, 2012, 163, 825-840.	3.1	16
34	Controls on long-term low explosivity at andesitic arc volcanoes: Insights from Mount Hood, Oregon. Journal of Volcanology and Geothermal Research, 2012, 219-220, 1-14.	2.1	37
35	Insight into volatile behavior at Nyamuragira volcano (D.R. Congo, Africa) through olivine-hosted melt inclusions. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	31
36	A comparative study of continental vs. intraoceanic arc mantle melting: Experimentally determined phase relations of hydrous primitive melts. Earth and Planetary Science Letters, 2011, 308, 97-106.	4.4	40

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37	8. The Sulfur Budget in Magmas: Evidence from Melt Inclusions, Submarine Glasses, and Volcanic Gas Emissions. , 2011, , 215-246.		14
38	Degassing of the H2O-rich rhyolites of the Okataina Volcanic Center, Taupo Volcanic Zone, New Zealand. Geology, 2011, 39, 311-314.	4.4	53
39	The melt inclusion record from the rhyolitic Kos Plateau Tuff (Aegean Arc). Contributions To Mineralogy and Petrology, 2010, 159, 187-202.	3.1	44
40	Degassing of volatiles (H2O, CO2, S, Cl) during ascent, crystallization, and eruption at mafic monogenetic volcanoes in central Mexico. Journal of Volcanology and Geothermal Research, 2010, 197, 225-238.	2.1	68
41	Mafic magma recharge supplies high CO2 and SO2 gas fluxes from PopocatÃ©petl volcano, Mexico. Geology, 2009, 37, 107-110.	4.4	90
42	Subduction-related Volatile Recycling and Magma Generation beneath Central Mexico: Insights from Melt Inclusions, Oxygen Isotopes and Geodynamic Models. Journal of Petrology, 2009, 50, 1729-1764.	2.8	128
43	Magmatic volatile contents and degassing-induced crystallization at VolcÃ¡n Jorullo, Mexico: Implications for melt evolution and the plumbing systems of monogenetic volcanoes. Earth and Planetary Science Letters, 2008, 269, 478-487.	4.4	139
44	Volatiles in High-K Magmas from the Western Trans-Mexican Volcanic Belt: Evidence for Fluid Fluxing and Extreme Enrichment of the Mantle Wedge by Subduction Processes. Journal of Petrology, 2008, 49, 1589-1618.	2.8	119
45	Storage and interaction of compositionally heterogeneous magmas from the 1986 eruption of Augustine Volcano, Alaska. Bulletin of Volcanology, 2006, 68, 240-254.	3.0	60
46	Anomalous uplift and subsidence of the Ontong Java Plateau inferred from CO2 contents of submarine basaltic glasses. Geology, 2005, 33, 501.	4.4	40
47	Volatiles in subduction zone magmas: concentrations and fluxes based on melt inclusion and volcanic gas data. Journal of Volcanology and Geothermal Research, 2005, 140, 217-240.	2.1	858
48	Volatiles in submarine basaltic glasses from the Ontong Java Plateau (ODP Leg 192): implications for magmatic processes and source region compositions. Geological Society Special Publication, 2004, 229, 239-257.	1.3	17
49	Cooling rates of Plinian-fall and pyroclastic-flow deposits in the Bishop Tuff: inferences from water speciation in quartz-hosted glass inclusions. Bulletin of Volcanology, 2003, 65, 105-123.	3.0	56
50	Role of H2O in subduction-zone magmatism: New insights from melt inclusions in high-Mg basalts from central Mexico. Geology, 2003, 31, 235.	4.4	164
51	Integrating petrologic and remote sensing perspectives on magmatic volatiles and volcanic degassing. Eos, 2003, 84, 441.	0.1	15
52	From mantle to atmosphere: magma degassing, explosive eruptions, and volcanic volatile budgets. Developments in Volcanology, 2003, 5, 105-127.	0.5	30
53	Zoned quartz phenocrysts from the rhyolitic Bishop Tuff. American Mineralogist, 2001, 86, 1034-1052.	1.9	105
54	Quaternary volcanism near the Valley of Mexico: implications for subduction zone magmatism and the effects of crustal thickness variations on primitive magma compositions. Contributions To Mineralogy and Petrology, 1999, 135, 291-314.	3.1	160

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55	Gradients in H2O, CO2, and exsolved gas in a large-volume silicic magma system: Interpreting the record preserved in melt inclusions from the Bishop Tuff. Journal of Geophysical Research, 1999, 104, 20097-20122.	3.3	216
56	Effects of eruption and lava drainback on the H 2 O contents of basaltic magmas at Kilauea Volcano. Bulletin of Volcanology, 1998, 59, 327-344.	3.0	136
57	Water and partial melting in mantle plumes: Inferences from the dissolved H2O concentrations of Hawaiian basaltic magmas. Geophysical Research Letters, 1998, 25, 3639-3642.	4.0	79
58	Quantification of pre-eruptive exsolved gas contents in silicic magmas. Nature, 1995, 377, 612-616.	27.8	168
59	Petrology of Volcï¿½n Tequila, Jalisco, Mexico: disequilibrium phenocryst assemblages and evolution of the subvolcanic magma system. Contributions To Mineralogy and Petrology, 1994, 117, 345-361.	3.1	68
60	Understanding Degassing and Transport of CO2-rich Alkalic Magmas at Ross Island, Antarctica using Olivine-Hosted Melt Inclusions. Journal of Petrology, 0, , .	2.8	3