

Wendy A Bohrson

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,180
citations

279798

23
h-index

276875

41
g-index

54
all docs

54
docs citations

54
times ranked

2062
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic limits for assimilation of silicate crust in primitive magmas. <i>Geology</i> , 2022, 50, 81-85.	4.4	12
2	Thermodynamic constraints on the petrogenesis of massif-type anorthosites and their parental magmas. <i>Lithos</i> , 2022, 422-423, 106751.	1.4	1
3	Serial interaction of primitive magmas with felsic and mafic crust recorded by gabbroic dikes from the Antarctic extension of the Karoo large igneous province. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	0
4	Hydrated Peridotite "Basaltic Melt Interaction Part I: Planetary Felsic Crust Formation at Shallow Depth. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	7
5	Diagnosing open-system magmatic processes using the Magma Chamber Simulator (MCS): part II "trace elements and isotopes. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	28
6	Diagnosing open-system magmatic processes using the Magma Chamber Simulator (MCS): part I "major elements and phase equilibria. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	49
7	Changing Mantle Sources and the Effects of Crustal Passage on the Steens Basalt, SE Oregon: Chemical and Isotopic Constraints. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008910.	2.5	10
8	Deep open storage and shallow closed transport system for a continental flood basalt sequence revealed with Magma Chamber Simulator. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	25
9	Rejuvenation of crustal magma mush: A tale of multiply nested processes and timescales. <i>Numerische Mathematik</i> , 2018, 318, 90-140.	1.4	36
10	The Benefits of Consistently Orientated Samples for Coincident Data Collection. <i>Microscopy and Microanalysis</i> , 2018, 24, 1100-1101.	0.4	1
11	Origin of primitive ocean island basalts by crustal gabbro assimilation and multiple recharge of plume-derived melts. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2701-2716.	2.5	10
12	TWO GABBROIC DIKES FROM THE KAROO LIP EXHIBIT INCREASING $\delta^{18}O$ TOWARDS THE CONTACT WITH THE WALLROCK AND RECORD TWO DISTINCT STORIES OF DIFFERENTIATION. , 2017, , .		0
13	ORIGIN OF GIANT PLAGIOCLASE IN A LARGE-VOLUME BASALTIC MAGMA: ENTRAINMENT OF PARTIALLY-MELTED GABBROIC CUMULATE IN THE STEENS BASALT, SE OREGON, USA. , 2017, , .		0
14	Dynamics and thermodynamics of magma mixing: Insights from a simple exploratory model. <i>American Mineralogist</i> , 2016, 101, 627-643.	1.9	20
15	Oxygen isotope heterogeneity of arc magma recorded in plagioclase from the 2010 Merapi eruption (Central Java, Indonesia). <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 13-34.	3.9	20
16	Geochemical investigation of Gabbroic Xenoliths from Hualalai Volcano: Implications for lower oceanic crust accretion and Hualalai Volcano magma storage system. <i>Earth and Planetary Science Letters</i> , 2016, 442, 162-172.	4.4	7
17	Crystal residence times from trace element zoning in plagioclase reveal changes in magma transfer dynamics at Mt. Etna during the last 400 years. <i>Lithos</i> , 2016, 248-251, 309-323.	1.4	29
18	Enriched continental flood basalts from depleted mantle melts: modeling the lithospheric contamination of Karoo lavas from Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	43

#	ARTICLE	IF	CITATIONS
19	PETROLOGIC EVOLUTION OF MAGMA ERUPTED AT PU'U O'O, KILAUEA VOLCANO: ARE DECADAL CHANGES IN MAGMA COMPOSITION PRIMARILY DRIVEN BY SHALLOW OR DEEP PETROGENETIC PHENOMENA?. , 2016, , .		0
20	OXYGEN ISOTOPE COMPOSITION OF PLAGIOCLASE FROM THE STEENS BASALT, COLUMBIA RIVER BASALT PROVINCE, SE OREGON. , 2016, , .		1
21	Thermodynamic Model for Energy-Constrained Open-System Evolution of Crustal Magma Bodies Undergoing Simultaneous Recharge, Assimilation and Crystallization: the Magma Chamber Simulator. Journal of Petrology, 2014, 55, 1685-1717.	2.8	103
22	Bulk rock composition and geochemistry of olivine-hosted melt inclusions in the Grey Porri Tuff and selected lavas of the Monte dei Porri volcano, Salina, Aeolian Islands, southern Italy. Open Geosciences, 2012, 4, 338-355.	1.7	2
23	Paleomagnetic behavior of volcanic rocks from Isla Socorro, Mexico. Earth, Planets and Space, 2009, 61, 191-204.	2.5	13
24	Multiple Plagioclase Crystal Populations Identified by Crystal Size Distribution and in situ Chemical Data: Implications for Timescales of Magma Chamber Processes Associated with the 1915 Eruption of Lassen Peak, CA. Journal of Petrology, 2008, 49, 1755-1780.	2.8	67
25	Insight into subvolcanic magma plumbing systems. Geology, 2007, 35, 767.	4.4	6
26	Partitioning of trace elements among coexisting crystals, melt, and supercritical fluid during isobaric crystallization and melting. American Mineralogist, 2007, 92, 1881-1898.	1.9	41
27	Phase Equilibria Constraints on the Chemical and Physical Evolution of the Campanian Ignimbrite. Journal of Petrology, 2007, 48, 459-493.	2.8	80
28	Energy-Constrained Recharge, Assimilation, and Fractional Crystallization (EC-RAFC): A Visual Basic computer code for calculating trace element and isotope variations of open-system magmatic systems. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	49
29	Chapter 13 Petrogenesis of the Campanian Ignimbrite: implications for crystal-melt separation and open-system processes from major and trace elements and Th isotopic data. Developments in Volcanology, 2006, , 249-288.	0.5	19
30	Energy-constrained open-system magmatic processes IV: Geochemical, thermal and mass consequences of energy-constrained recharge, assimilation and fractional crystallization (EC-RAFC). Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	43
31	Seamounts at the continental margin of California: A different kind of oceanic intraplate volcanism. Bulletin of the Geological Society of America, 2002, 114, 316-333.	3.3	45
32	Energy-constrained open-system magmatic processes 3. Energy-Constrained Recharge, Assimilation, and Fractional Crystallization (EC-RAFC). Geochemistry, Geophysics, Geosystems, 2002, 3, 1-20.	2.5	42
33	Energy-Constrained Open-System Magmatic Processes II: Application of Energy-Constrained Assimilation-Fractional Crystallization (EC-AFC) Model to Magmatic Systems. Journal of Petrology, 2001, 42, 1019-1041.	2.8	253
34	New constraints on the pyroclastic eruptive history of the Campanian volcanic Plain (Italy). Mineralogy and Petrology, 2001, 73, 47-65.	1.1	638
35	Genesis of Evolved Ocean Island Magmas by Deep- and Shallow-Level Basement Recycling, Socorro Island, Mexico: Constraints from Th and other Isotope Signatures. Journal of Petrology, 1998, 39, 995-1008.	2.8	36
36	Shallow-Level Processes in Ocean-island Magmatism: Editorial. Journal of Petrology, 1998, 39, 799-801.	2.8	8

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37	Genesis of Silicic Peralkaline Volcanic Rocks in an Ocean Island Setting by Crustal Melting and Open-system Processes: Socorro Island, Mexico. <i>Journal of Petrology</i> , 1997, 38, 1137-1166.	2.8	121
38	Rethinking the chemical heterogeneity of the mantle. <i>Eos</i> , 1997, 78, 257.	0.1	10
39	Prolonged history of silicic peralkaline volcanism in the eastern Pacific Ocean. <i>Journal of Geophysical Research</i> , 1996, 101, 11457-11474.	3.3	30
40	Volcanic Rocks from Rocas Alijos. <i>Monographiae Biologicae</i> , 1996, , 75-91.	0.1	4
41	Chemically diverse, sporadic volcanism at seamounts offshore southern and Baja California. <i>Bulletin of the Geological Society of America</i> , 1995, 107, 554-570.	3.3	32
42	Petrogenesis of alkaline basalts from Socorro Island, Mexico: Trace element evidence for contamination of ocean island basalt in the shallow ocean crust. <i>Journal of Geophysical Research</i> , 1995, 100, 24555-24576.	3.3	52
43	Variations in the Fine-scale Composition of a Central Pacific Ferromanganese Crust: Paleooceanographic Implications. <i>Paleoceanography</i> , 1992, 7, 63-77.	3.0	87
44	Origin of xenoliths in the trachyte at Puu Waawaa, Hualalai Volcano, Hawaii. <i>Contributions To Mineralogy and Petrology</i> , 1991, 108, 439-452.	3.1	34
45	Origin of ultramafic xenoliths containing exsolved pyroxenes from Hualalai Volcano, Hawaii. <i>Contributions To Mineralogy and Petrology</i> , 1988, 100, 139-155.	3.1	54
46	Waimea Canyon, Kauai, Hawaii. , 0, , 1-4.		2