

Wendy A Bohrson

List of Publications by Year in descending order

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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	New constraints on the pyroclastic eruptive history of the Campanian volcanic Plain (Italy). <i>Mineralogy and Petrology</i> , 2001, 73, 47-65.	1.1	638
2	Energy-Constrained Open-System Magmatic Processes II: Application of Energy-Constrained Assimilation-Fractional Crystallization (EC-AFC) Model to Magmatic Systems. <i>Journal of Petrology</i> , 2001, 42, 1019-1041.	2.8	253
3	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
4	Thermodynamic Model for Energy-Constrained Open-System Evolution of Crustal Magma Bodies Undergoing Simultaneous Recharge, Assimilation and Crystallization: the Magma Chamber Simulator. <i>Journal of Petrology</i> , 2014, 55, 1685-1717.	2.8	103
5	Variations in the Fine-Scale Composition of a Central Pacific Ferromanganese Crust: Paleoceanographic Implications. <i>Paleoceanography</i> , 1992, 7, 63-77.	3.0	87
6	Phase Equilibria Constraints on the Chemical and Physical Evolution of the Campanian Ignimbrite. <i>Journal of Petrology</i> , 2007, 48, 459-493.	2.8	80
7	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. <i>Journal of Petrology</i> , 2008, 49, 1755-1780.	2.8	67
8	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
9	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
10	Energy-Constrained Recharge, Assimilation, and Fractional Crystallization (EC-AFC): A Visual Basic computer code for calculating trace element and isotope variations of open-system magmatic systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	49
11	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
12	Seamounts at the continental margin of California: A different kind of oceanic intraplate volcanism. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 316-333.	3.3	45
13	Energy-constrained open-system magmatic processes IV: Geochemical, thermal and mass consequences of energy-constrained recharge, assimilation and fractional crystallization (EC-RAFC). <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	43
14	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
15	Energy-constrained open-system magmatic processes 3. Energy-Constrained Recharge, Assimilation, and Fractional Crystallization (EC-RAFC). <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-20.	2.5	42
16	Partitioning of trace elements among coexisting crystals, melt, and supercritical fluid during isobaric crystallization and melting. <i>American Mineralogist</i> , 2007, 92, 1881-1898.	1.9	41
17	Genesis of Evolved Ocean Island Magmas by Deep- and Shallow-Level Basement Recycling, Socorro Island, Mexico: Constraints from Th and other Isotope Signatures. <i>Journal of Petrology</i> , 1998, 39, 995-1008.	2.8	36
18	Rejuvenation of crustal magma mush: A tale of multiply nested processes and timescales. <i>Numerische Mathematik</i> , 2018, 318, 90-140.	1.4	36

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19	Origin of xenoliths in the trachyte at Puu Waawaa, Hualalai Volcano, Hawaii. Contributions To Mineralogy and Petrology, 1991, 108, 439-452.	3.1	34
20	Chemically diverse, sporadic volcanism at seamounts offshore southern and Baja California. Bulletin of the Geological Society of America, 1995, 107, 554-570.	3.3	32
21	Prolonged history of silicic peralkaline volcanism in the eastern Pacific Ocean. Journal of Geophysical Research, 1996, 101, 11457-11474.	3.3	30
22	Crystal residence times from trace element zoning in plagioclase reveal changes in magma transfer dynamics at Mt. Etna during the last 400 years. Lithos, 2016, 248-251, 309-323.	1.4	29
23	Diagnosing open-system magmatic processes using the Magma Chamber Simulator (MCS): part II—trace elements and isotopes. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	28
24	Deep open storage and shallow closed transport system for a continental flood basalt sequence revealed with Magma Chamber Simulator. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	25
25	Dynamics and thermodynamics of magma mixing: Insights from a simple exploratory model. American Mineralogist, 2016, 101, 627-643.	1.9	20
26	Oxygen isotope heterogeneity of arc magma recorded in plagioclase from the 2010 Merapi eruption (Central Java, Indonesia). Geochimica Et Cosmochimica Acta, 2016, 190, 13-34.	3.9	20
27	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
28	Paleomagnetic behavior of volcanic rocks from Isla Socorro, Mexico. Earth, Planets and Space, 2009, 61, 191-204.	2.5	13
29	Thermodynamic limits for assimilation of silicate crust in primitive magmas. Geology, 2022, 50, 81-85.	4.4	12
30	Rethinking the chemical heterogeneity of the mantle. Eos, 1997, 78, 257.	0.1	10
31	Origin of primitive ocean island basalts by crustal gabbro assimilation and multiple recharge of plume-derived melts. Geochemistry, Geophysics, Geosystems, 2017, 18, 2701-2716.	2.5	10
32	Changing Mantle Sources and the Effects of Crustal Passage on the Steens Basalt, SE Oregon: Chemical and Isotopic Constraints. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC008910.	2.5	10
33	Shallow-Level Processes in Ocean-island Magmatism: Editorial. Journal of Petrology, 1998, 39, 799-801.	2.8	8
34	Geochemical investigation of Gabbroic Xenoliths from Hualalai Volcano: Implications for lower oceanic crust accretion and Hualalai Volcano magma storage system. Earth and Planetary Science Letters, 2016, 442, 162-172.	4.4	7
35	Hydrated Peridotite – Basaltic Melt Interaction Part I: Planetary Felsic Crust Formation at Shallow Depth. Frontiers in Earth Science, 2021, 9, .	1.8	7
36	Insight into subvolcanic magma plumbing systems. Geology, 2007, 35, 767.	4.4	6

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37	Volcanic Rocks from Rocas Alijos. Monographiae Biologicae, 1996, , 75-91.	0.1	4
38	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
39	Waimea Canyon, Kauai, Hawaii. , 0, , 1-4.		2
40	The Benefits of Consistently Orientated Samples for Coincident Data Collection. Microscopy and Microanalysis, 2018, 24, 1100-1101.	0.4	1
41	OXYGEN ISOTOPE COMPOSITION OF PLAGIOCLASE FROM THE STEENS BASALT, COLUMBIA RIVER BASALT PROVINCE, SE OREGON. , 2016, , .		1
42	Thermodynamic constraints on the petrogenesis of massif-type anorthosites and their parental magmas. Lithos, 2022, 422-423, 106751.	1.4	1
43	Serial interaction of primitive magmas with felsic and mafic crust recorded by gabbroic dikes from the Antarctic extension of the Karoo large igneous province. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	0
44	PETROLOGIC EVOLUTION OF MAGMA ERUPTED AT PU'U O'O, KILAUEA VOLCANO: ARE DECADEAL CHANGES IN MAGMA COMPOSITION PRIMARILY DRIVEN BY SHALLOW OR DEEP PETROGENETIC PHENOMENA?. , 2016, , .		0
45	TWO GABBROIC DIKES FROM THE KAROO LIP EXHIBIT INCREASING $\hat{\mu}_{ND}$ TOWARDS THE CONTACT WITH THE WALLROCK AND RECORD TWO DISTINCT STORIES OF DIFFERENTIATION. , 2017, , .		0
46	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