

John C Eichelberger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/528629/publications.pdf>

Version: 2024-02-01

74
papers

4,865
citations

94433

37
h-index

95266

68
g-index

81
all docs

81
docs citations

81
times ranked

2241
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-explosive silicic volcanism. <i>Nature</i> , 1986, 323, 598-602.	27.8	569
2	Vesiculation of mafic magma during replenishment of silicic magma reservoirs. <i>Nature</i> , 1980, 288, 446-450.	27.8	382
3	Origin of andesite and dacite: Evidence of mixing at Glass Mountain in California and at other circum-Pacific volcanoes. <i>Bulletin of the Geological Society of America</i> , 1975, 86, 1381.	3.3	308
4	Andesitic volcanism and crustal evolution. <i>Nature</i> , 1978, 275, 21-27.	27.8	302
5	Hydrogen isotopic evidence of rhyolitic magma degassing during shallow intrusion and eruption. <i>Nature</i> , 1983, 306, 541-545.	27.8	248
6	Crystallization history of Obsidian Dome, Inyo Domes, California. <i>Bulletin of Volcanology</i> , 1989, 51, 161-176.	3.0	172
7	Bulk chemical trends at arc volcanoes are not liquid lines of descent. <i>Lithos</i> , 2006, 87, 135-154.	1.4	138
8	Silicic Volcanism: Ascent of Viscous Magmas from Crustal Reservoirs. <i>Annual Review of Earth and Planetary Sciences</i> , 1995, 23, 41-63.	11.0	129
9	Magmas in collision: Rethinking chemical zonation in silicic magmas. <i>Geology</i> , 2000, 28, 603.	4.4	128
10	Degassing of rhyolitic magma during ascent and emplacement. <i>Journal of Geophysical Research</i> , 1988, 93, 6503-6511.	3.3	122
11	Eruptions at Chaos Crags, Lassen Volcanic National Park, California. <i>Journal of Volcanology and Geothermal Research</i> , 1980, 7, 443-481.	2.1	109
12	Magma storage and mixing conditions for the 1953-1974 eruptions of Southwest Trident volcano, Katmai National Park, Alaska. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 99-118.	3.1	101
13	Magmas in collision: Rethinking chemical zonation in silicic magmas. <i>Geology</i> , 2000, 28, 603-606.	4.4	100
14	Magma mingling as indicated by texture and Sr/Ba ratios of plagioclase phenocrysts from Unzen volcano, SW Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 154, 103-116.	2.1	99
15	Gas transport and bubble collapse in rhyolitic magma: an experimental approach. <i>Bulletin of Volcanology</i> , 1994, 56, 447-458.	3.0	91
16	Fracture fillings and intrusive pyroclasts, Inyo Domes, California. <i>Journal of Geophysical Research</i> , 1988, 93, 4335-4350.	3.3	89
17	Experimental and textural constraints on mafic enclave formation in volcanic rocks. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 119, 125-144.	2.1	85
18	Eruption of andesite triggered by dyke injection: contrasting cases at Karymsky Volcano, Kamchatka and Mt Katmai, Alaska. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1465-1485.	3.4	82

#	ARTICLE	IF	CITATIONS
19	Magmatic model for the Mount St. Helens blast of May 18, 1980. <i>Journal of Geophysical Research</i> , 1982, 87, 7727-7738.	3.3	78
20	Petrology and emplacement dynamics of intrusive and extrusive rhyolites of Obsidian Dome, Inyo Craters Volcanic Chain, eastern California. <i>Journal of Geophysical Research</i> , 1989, 94, 17937-17956.	3.3	76
21	Thermal and dynamical regimes of single- and two-phase magmatic flow in dikes. <i>Journal of Geophysical Research</i> , 1992, 97, 17377-17392.	3.3	74
22	Syneruptive mixing, degassing, and crystallization at Redoubt Volcano, eruption of December, 1989 to May 1990. <i>Journal of Volcanology and Geothermal Research</i> , 1997, 75, 19-37.	2.1	73
23	The 1996 Eruption of Karymsky Volcano, Kamchatka: Historical Record of Basaltic Replenishment of an Andesite Reservoir. <i>Journal of Petrology</i> , 2004, 45, 2325-2345.	2.8	73
24	Magmatic volatiles in explosive rhyolitic eruptions. <i>Geophysical Research Letters</i> , 1981, 8, 757-760.	4.0	70
25	Generation of Porphyritic and Equigranular Mafic Enclaves During Magma Recharge Events at Unzen Volcano, Japan. <i>Journal of Petrology</i> , 2006, 47, 301-328.	2.8	70
26	Zoning of magmas by viscosity in volcanic conduits. <i>Nature</i> , 1990, 343, 248-251.	27.8	65
27	Deformation of New Trident Volcano measured by ERS-1 SAR interferometry, Katmai National Park, Alaska. <i>Geophysical Research Letters</i> , 1997, 24, 695-698.	4.0	62
28	Calcic cores of plagioclase phenocrysts in andesite from Karymsky volcano: Evidence for rapid introduction by basaltic replenishment. <i>Geology</i> , 2002, 30, 799.	4.4	58
29	Lithic fragments in the Bandelier Tuff, Jemez Mountains, New Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1979, 5, 115-134.	2.1	54
30	Science, Policy, and Stakeholders: Developing a Consensus Science Plan for Amchitka Island, Aleutians, Alaska. <i>Environmental Management</i> , 2005, 35, 557-568.	2.7	53
31	Volcano observatory best practices (VOBP) workshops - a summary of findings and best-practice recommendations. <i>Journal of Applied Volcanology</i> , 2019, 8, .	2.0	53
32	Magmatic Differentiation at an Island-arc Caldera: Okmok Volcano, Aleutian Islands, Alaska. <i>Journal of Petrology</i> , 2008, 49, 857-884.	2.8	50
33	Comagmatic granophyre and dacite from Karymsky volcanic center, Kamchatka: experimental constraints for magma storage conditions. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 131, 1-18.	2.1	48
34	Structure and Stratigraphy Beneath a Young Phreatic Vent: South Inyo Crater, Long Valley Caldera, California. <i>Journal of Geophysical Research</i> , 1988, 93, 13208-13220.	3.3	45
35	Late Pleistocene-Holocene volcanism on the Kamchatka Peninsula, Northwest Pacific Region. <i>Geophysical Monograph Series</i> , 2007, , 165-198.	0.1	43
36	Degassing of the 1912 Katmai magmas. <i>Geophysical Research Letters</i> , 1991, 18, 1561-1564.	4.0	41

#	ARTICLE	IF	CITATIONS
37	Mount Dutton volcano, Alaska: Aleutian arc analog to Unzen volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 89, 275-301.	2.1	40
38	The 1999 eruption of Shishaldin Volcano, Alaska: monitoring a distant eruption. <i>Bulletin of Volcanology</i> , 2002, 64, 507-519.	3.0	38
39	Rhyolite intrusions in the intracaldera Bishop Tuff, Long Valley Caldera, California. <i>Journal of Volcanology and Geothermal Research</i> , 1995, 67, 41-60.	2.1	36
40	Application of wave-theoretical seismoacoustic models to the interpretation of explosion and eruption tremor signals radiated by Pavlof volcano, Alaska. <i>Journal of Geophysical Research</i> , 2000, 105, 3039-3058.	3.3	30
41	The Petrology and Geochemistry of the Aniakchak Caldera-forming Ignimbrite, Aleutian Arc, Alaska. <i>Journal of Petrology</i> , 2005, 46, 1747-1768.	2.8	30
42	Oxygen isotope compositions of intracaldera rocks: hydrothermal history of the Long Valley Caldera, California. <i>Journal of Volcanology and Geothermal Research</i> , 1997, 76, 83-109.	2.1	29
43	New structural limits on magma chamber locations at the Valley of Ten Thousand Smokes, Katmai National Park, Alaska. <i>Geology</i> , 1990, 18, 1240.	4.4	28
44	Evolution of Silicic Magma Chambers and their Relationship to Basaltic Volcanism. <i>Geophysical Monograph Series</i> , 2013, , 57-77.	0.1	26
45	Magma Contamination within the Volcanic Pile: Origin of Andesite and Dacite. <i>Geology</i> , 1974, 2, 29.	4.4	24
46	Interdisciplinary Studies of Eruption at Chait�n Volcano, Chile. <i>Eos</i> , 2010, 91, 381-382.	0.1	22
47	Research drilling at Inyo Domes, Long Valley Caldera, California. <i>Eos</i> , 1984, 65, 721-725.	0.1	20
48	Chemical evolution and periodic eruption of mafic lava flows in the west moat of Long Valley Caldera, California. <i>Journal of Geophysical Research</i> , 1994, 99, 19829-19842.	3.3	16
49	Springtime Flood Risk Reduction in Rural Arctic: A Comparative Study of Interior Alaska, United States and Central Yakutia, Russia. <i>Geosciences (Switzerland)</i> , 2018, 8, 90.	2.2	14
50	Are extrusive rhyolites produced from permeable foam eruptions?. <i>Bulletin of Volcanology</i> , 1989, 51, 72-75.	3.0	13
51	Distribution and Transport of Thermal Energy within Magma�Hydrothermal Systems. <i>Geosciences (Switzerland)</i> , 2020, 10, 212.	2.2	12
52	Major and trace element zoning in plagioclase from Kizimen Volcano (Kamchatka): Insights into magma-chamber processes. <i>Journal of Volcanology and Seismology</i> , 2013, 7, 112-130.	0.7	11
53	Pre-eruptive storage conditions of the Holocene dacite erupted from Kizimen Volcano, Kamchatka. <i>International Geology Review</i> , 2010, 52, 95-110.	2.1	10
54	Research drilling at Katmai, Alaska. <i>Eos</i> , 1986, 67, 778-780.	0.1	9

#	ARTICLE	IF	CITATIONS
55	Minor- and trace element zoning in plagioclase from Kizimen Volcano, Kamchatka: Insights on the magma chamber processes. <i>Geophysical Monograph Series</i> , 2007, , 303-323.	0.1	9
56	Comparison of eruptive and intrusive samples from Unzen Volcano, Japan: Effects of contrasting pressure-temperature-time paths. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 175, 60-70.	2.1	9
57	Exploring and Modeling the Magma-Hydrothermal Regime. <i>Geosciences (Switzerland)</i> , 2020, 10, 234.	2.2	9
58	Messy magma mixtures. <i>Nature Geoscience</i> , 2010, 3, 593-594.	12.9	8
59	The Katmai Scientific Drilling Project, surface phase: Investigation of an exceptional igneous system. <i>Geophysical Research Letters</i> , 1991, 18, 1513-1516.	4.0	6
60	New fumarolic activity on Mt. Baker: observations during April through July, 1975. <i>Journal of Volcanology and Geothermal Research</i> , 1976, 1, 35-53.	2.1	5
61	DOE Thermal Regimes Drilling Program through 1988. <i>Eos</i> , 1989, 70, 697.	0.1	5
62	Conflict of values necessitates public lands research policy. <i>Eos</i> , 1994, 75, 505.	0.1	5
63	Active Volcanic Systems. , 2007, , 213-234.		5
64	Scientific Results of Conduit Drilling in the Unzen Scientific Drilling Project (USDP). <i>Scientific Drilling</i> , 2005, , .	0.6	3
65	GEOSCIENCE: Enhanced: Drilling Volcanoes. <i>Science</i> , 1997, 278, 1084-1085.	12.6	2
66	Scientific drilling project on Russia's Mutnovsky Volcano. <i>Eos</i> , 2006, 87, 569.	0.1	2
67	Identifying best practices in short-term eruption forecasting. <i>Eos</i> , 2012, 93, 5-5.	0.1	1
68	Setting, history, and impact of volcanic eruptions in the North Pacific region. , 2015, , 1-25.		1
69	Magma contamination within the volcanic pile: Origin of andesite and dacite: Comment and Reply. <i>Geology</i> , 1975, 3, 164.	4.4	0
70	CSDP at the crossroads. <i>Eos</i> , 1987, 68, 1130.	0.1	0
71	Seismic-volcanic workshop strengthens international cooperation. <i>Eos</i> , 1999, 80, 65.	0.1	0
72	Workshop on subduction, arc magmatic processes completes North Pacific meeting cycle. <i>Eos</i> , 2002, 83, 431.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Introduction: Subduction's sharpest arrow. Geophysical Monograph Series, 2007, , 1-2.	0.1	0
74	Drilling to investigate processes in active tectonics and magmatism. Scientific Drilling, 2014, 18, 19-33.	0.6	0