

Claus Siebe

List of Publications by Year in descending order

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76
papers

2,998
citations

136950

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175258

52
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79
docs citations

79
times ranked

1777
citing authors

#	ARTICLE	IF	CITATIONS
1	Repeated volcanic disasters in Prehispanic time at Popocatepetl, central Mexico: Past key to the future?. <i>Geology</i> , 1996, 24, 399.	4.4	180
2	Geochemical Evidence for Mantle Origin and Crustal Processes in Volcanic Rocks from Popocatepetl and Surrounding Monogenetic Volcanoes, Central Mexico. <i>Journal of Petrology</i> , 2005, 46, 1243-1282.	2.8	167
3	Age and archaeological implications of Xitle volcano, southwestern Basin of Mexico-City. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 104, 45-64.	2.1	142
4	Surface ocean iron fertilization: The role of airborne volcanic ash from subduction zone and hot spot volcanoes and related iron fluxes into the Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	122
5	Passive infrared spectroscopy of the eruption plume at Popocatepetl volcano, Mexico. <i>Nature</i> , 1998, 396, 563-567.	27.8	117
6	Passive infrared remote sensing evidence for large, intermittent CO ₂ emissions at Popocatepetl volcano, Mexico. <i>Chemical Geology</i> , 2001, 177, 133-156.	3.3	109
7	Radiocarbon ages of Holocene Pelado, Guespalapa, and Chichinautzin scoria cones, south of Mexico City: implications for archaeology and future hazards. <i>Bulletin of Volcanology</i> , 2004, 66, 203-225.	3.0	99
8	Geochemistry, Sr-87/Nd isotope composition, and tectonic setting of Holocene Pelado, Guespalapa and Chichinautzin scoria cones, south of Mexico City. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 130, 197-226.	2.1	95
9	Geochemical surveillance of magmatic volatiles at Popocatepetl volcano, Mexico. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 0695.	3.3	89
10	Morphology and emplacement of an unusual debris-avalanche deposit at Jocotitlán volcano, Central Mexico. <i>Bulletin of Volcanology</i> , 1992, 54, 573-589.	3.0	81
11	Geology and radiocarbon ages of Tlacotal, Tlacotenco, Cuauhtzin, Hijo del Cuauhtzin, Teuhtli, and Ocusacayo monogenetic volcanoes in the central part of the Sierra Chichinautzin, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 141, 225-243.	2.1	81
12	Field observations of pristine block- and ash-flow deposits emplaced April 16-17, 1991 at Volcán de Colima, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1991, 48, 399-412.	2.1	67
13	Mammoth bones embedded in a late Pleistocene lahar from Popocatepetl volcano, near Tocuila, central Mexico. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 1550-1562.	3.3	62
14	Reconstruction of the volcanic history of the Tacámbaro-Puruarán area (Michoacán, Mexico) reveals high frequency of Holocene monogenetic eruptions. <i>Bulletin of Volcanology</i> , 2012, 74, 1187-1211.	3.0	62
15	Submarine eruption near Socorro Island, Mexico: Geochemistry and scanning electron microscopy studies of floating scoria and reticulite. <i>Journal of Volcanology and Geothermal Research</i> , 1995, 68, 239-271.	2.1	60
16	Geology, geochronology, and tectonic setting of the Jorullo Volcano region, Michoacán, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 201, 97-112.	2.1	60
17	A caldera-forming eruption ~14,000 years BP at Popocatepetl volcano, Mexico: Insights from eruption dynamics and magma mixing. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 213-214, 27-40.	2.1	55
18	Geology and geochemistry of Pelagatos, Cerro del Agua, and Dos Cerros monogenetic volcanoes in the Sierra Chichinautzin Volcanic Field, south of Mexico City. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 201, 143-162.	2.1	54

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19	Holocene plinian eruption of La Virgen volcano, Baja California, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 80, 239-266.	2.1	51
20	Eruptive style of the young high-Mg basaltic-andesite Pelagatos scoria cone, southeast of MÃ©xico City. <i>Bulletin of Volcanology</i> , 2009, 71, 859-880.	3.0	50
21	Dynamics of the ca. 4965yr 14C BP "Ochre Pumice" Plinian eruption of PopocatÃ©petl volcano, MÃ©xico. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 192, 212-231.	2.1	49
22	Major Holocene block-and-ash fan at the western slope of ice-capped Pico de Orizaba volcano, MÃ©xico: Implications for future hazards. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 59, 1-33.	2.1	45
23	The giant PopocatÃ©petl stirs. <i>Nature</i> , 1997, 388, 227-227.	27.8	42
24	Late Pleistocene "Holocene stratigraphy and radiocarbon dating of La Malinche volcano, Central Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 162, 20-42.	2.1	40
25	The ~ 23,500 y 14 C BP White Pumice Plinian eruption and associated debris avalanche and Tochimilco lava flow of PopocatÃ©petl volcano, MÃ©xico. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 333-334, 66-95.	2.1	40
26	Late Pleistocene Alberca de Guadalupe maar volcano (Zacapu basin, MichoacÃ¡n): Stratigraphy, tectonic setting, and paleo-hydrogeological environment. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 304, 214-236.	2.1	38
27	PopocatÃ©petl's crater filled to the brim: significance for hazard evaluation. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 141, 327-330.	2.1	37
28	Revised stratigraphy and eruption rates of Ceboruco stratovolcano and surrounding monogenetic vents (Nayarit, Mexico) from historical documents and new radiocarbon dates. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 241-264.	2.1	37
29	Gas composition of PopocatÃ©petl Volcano between 2007 and 2008: FTIR spectroscopic measurements of an explosive event and during quiescent degassing. <i>Earth and Planetary Science Letters</i> , 2011, 301, 502-510.	4.4	37
30	Skarn xenolith record crustal CO ₂ liberation during Pompeii and Pollena eruptions, Vesuvius volcanic system, central Italy. <i>Chemical Geology</i> , 2015, 415, 17-36.	3.3	37
31	The ~14AD 1250 effusive eruption of El Metate shield volcano (MichoacÃ¡n, Mexico): magma source, crustal storage, eruptive dynamics, and lava rheology. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	36
32	The AD 1250 El Metate shield volcano (MichoacÃ¡n): Mexico's most voluminous Holocene eruption and its significance for archaeology and hazards. <i>Holocene</i> , 2016, 26, 471-488.	1.7	34
33	Deposition of a high-sulfidation Au assemblage from a magmatic volatile phase, VolcÃ¡n PopocatÃ©petl, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 170, 51-60.	2.1	33
34	Geological and environmental controls on the change of eruptive style (phreatomagmatic to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 152 volcanoes around the Zacapu basin (MichoacÃ¡n, MÃ©xico). <i>Journal of Volcanology and Geothermal Research</i> , 2016, 318, 114-133.	2.1	32
35	Geology and radiometric dating of Quaternary monogenetic volcanism in the western Zacapu lacustrine basin (MichoacÃ¡n, MÃ©xico): implications for archeology and future hazard evaluations. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	32
36	A re-interpretation of the petrogenesis of Paricutin volcano: Distinguishing crustal contamination from mantle heterogeneity. <i>Chemical Geology</i> , 2019, 504, 66-82.	3.3	31

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37	Gauging short-term volcanic hazards at Popocatepetl [Popocat' {e}petl]. <i>Eos</i> , 2001, 82, 185-185.	0.1	30
38	Pyroclastic Flow Hazard at VolcÃ¡n CitlaltÃ©petl. <i>Natural Hazards</i> , 2004, 33, 209-221.	3.4	28
39	Temporal and compositional evolution of Jorullo volcano, Mexico: Implications for magmatic processes associated with a monogenetic eruption. <i>Chemical Geology</i> , 2016, 434, 62-80.	3.3	28
40	Metal-residence sites in lavas and tuffs from VolcÃ¡n Popocatepetl, Mexico: implications for metal mobility in the environment. <i>Environmental Geology</i> , 1998, 33, 197-208.	1.2	26
41	Paleomagnetic study of El Metate shield volcano (MichoacÃ¡n, Mexico) confirms its monogenetic nature and young age (~ 1250 CE). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 336, 209-218.	2.1	26
42	Paleomagnetically inferred ages of a cluster of Holocene monogenetic eruptions in the TacÃ¡mbaro-PuruarÃ¡n area (MichoacÃ¡n, MÃ©xico): Implications for volcanic hazards. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 360-370.	2.1	26
43	Paleomagnetic constraints on the ages of the Holocene MalpaÃ±s de Zacapu lava flow eruptions, MichoacÃ¡n (MÃ©xico): Implications for archeology and volcanic hazards. <i>Holocene</i> , 2018, 28, 229-245.	1.7	25
44	The Quetzalapa Pumice: a voluminous late Pleistocene rhyolite deposit in the eastern Trans-Mexican Volcanic Belt. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 113, 177-212.	2.1	24
45	Cerro Xalapaxco: an unusual tuff cone with multiple explosion craters, in central Mexico (Puebla). <i>Journal of Volcanology and Geothermal Research</i> , 1994, 63, 183-199.	2.1	23
46	Compositional and volumetric development of a monogenetic lava flow field: The historical case of Paricutin (MichoacÃ¡n, Mexico). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 348, 36-48.	2.1	23
47	Substrate deformation associated with the JocotitlÃ¡n edifice collapse and debris avalanche deposit, Central MÃ©xico. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 197, 133-148.	2.1	20
48	The ~ AD 500â€“700 (Late Classic) El Astillero and El Pedregal volcanoes (MichoacÃ¡n, Mexico): a new monogenetic cluster in the making?. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	18
49	Late-Quaternary secular variation data from Mexican volcanoes. <i>Earth and Planetary Science Letters</i> , 2019, 519, 28-39.	4.4	18
50	Volcanic hazards in the Mexico City metropolitan area from eruptions at Popocatepetl, Nevado de Toluca, and JocotitlÃ¡n stratovolcanoes and monogenetic scoria cones in the Sierra Chichinautzin Volcanic Field. , 2006, , .		17
51	Volcanic stratigraphy of a high-altitude <i>Mammuthus columbi</i> (Tlacotenco, Sierra Chichinautzin), Central MÃ©xico. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	17
52	Long-range hazard assessment of volcanic ash dispersal for a Plinian eruptive scenario at Popocatepetl volcano (Mexico): implications for civil aviation safety. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	16
53	Crystals reveal magma convection and melt transport in dyke-fed eruptions. <i>Scientific Reports</i> , 2020, 10, 11632.	3.3	16
54	Passive infrared spectroscopic remote sensing of volcanic gases: Ground-based studies at White Island and Ruapehu, New Zealand, and Popocatepetl, Mexico. <i>Geophysical Monograph Series</i> , 2000, , 117-138.	0.1	15

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55	Timing of the prehistoric eruption of Xitle Volcano and the abandonment of Cuicuilco Pyramid, Southern Basin of Mexico. Geological Society Special Publication, 2000, 171, 205-224.	1.3	15
56	Geology and hydrogeochemistry of the Jungapeo CO ₂ -rich thermal springs, State of Michoacán, Mexico. Journal of Volcanology and Geothermal Research, 2007, 163, 1-33.	2.1	15
57	Maars and scoria cones: the enigma of monogenetic volcanic fields. Journal of Volcanology and Geothermal Research, 2011, 201, v-viii.	2.1	13
58	Ceboruco hazard map: part II – modeling volcanic phenomena and construction of the general hazard map. Natural Hazards, 2019, 96, 893-933.	3.4	13
59	No evidence for tephra in Greenland from the historic eruption of Vesuvius in 79 AD: implications for geochronology and paleoclimatology. Climate of the Past, 2022, 18, 45-65.	3.4	13
60	Stratigraphy and radiocarbon ages of late-Holocene Las Derrumbadas rhyolitic domes and surrounding vents in the Serdán-Oriental basin (Mexico): Implications for archeology, biology, and hazard assessment. Holocene, 2020, 30, 402-419.	1.7	12
61	On the possible use of cinder cones and maars as palaeoclimatic indicators in the closed basin of Serdanoriental, Puebla, México. Journal of Volcanology and Geothermal Research, 1986, 28, 397-400.	2.1	11
62	¹⁴ C and ⁴⁰ Ar/ ³⁹ Ar radiometric dating and geologic setting of young lavas of Rancho Seco and Mazcuta volcanoes hosting archaeological sites at the margins of the Pátzcuaro and Zacapu lake basins (central Michoacán, Mexico). Journal of Volcanology and Geothermal Research, 2019, 388, 106674.	2.1	10
63	From Explosive Vent Opening to Effusive Outpouring: Mineral Constraints on Magma Dynamics and Timescales at Parícutin Monogenetic Volcano. Journal of Petrology, 2021, 62, .	2.8	10
64	Paleomagnetic secular variation study of Ar ⁴⁰ -Ar dated lavas flows from Tacambaro area (Central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Earth and Planetary Interiors, 2014, 229, 98-109.	1.9	9
65	Ceboruco hazard map: part I - definition of hazard scenarios based on the eruptive history. Journal of Applied Volcanology, 2019, 8, .	2.0	9
66	Petrographic, Geochemical and Isotopic (Sr ⁸⁷ -Nd ¹⁴³ -Pb ²⁰⁶ -Os) Study of Plio-Quaternary Volcanics and the Tertiary Basement in the Jorullo-Tacámbaro Area, Michoacán-Guanajuato Volcanic Field, Mexico. Journal of Petrology, 2019, 60, 2317-2338.	2.8	8
67	Rancho Seco monogenetic volcano (Michoacán, Mexico): Petrogenesis and lava flow emplacement based on LiDAR images. Journal of Volcanology and Geothermal Research, 2021, 411, 107169.	2.1	8
68	Late Holocene Malpañas de Zacapu (Michoacán, Mexico) andesitic lava flows: rheology and eruption properties based on LiDAR image. Bulletin of Volcanology, 2021, 83, 1.	3.0	6
69	Comment on: Schmitt, A.K. et al. (2006): Eruption and magma crystallization ages of Las Tres Virgenes (Baja California) constrained by combined ²³⁰ Th/ ²³⁸ U and (U ²³⁵ -Th)/He dating of zircon [J. Volcanol. Geotherm. Res. V. 158: 281-295]. Journal of Volcanology and Geothermal Research, 2007, 163, 98-101.	2.1	5
70	The historical case of Parícutin volcano (Michoacán, México): challenges of simulating lava flows on a gentle slope during a long-lasting eruption. Natural Hazards, 2021, 107, 809-829.	3.4	5
71	Reconstructing the middle to late Pleistocene explosive eruption histories of Popocatepetl, Iztaccáhuatl and Tláloc-Telapán volcanoes in Central México. Journal of Volcanology and Geothermal Research, 2022, 421, 107413.	2.1	4
72	The other stone. Dacite quarries and workshops in the prehispanic Tarascan territory, Michoacán, Mexico. Journal of Archaeological Science: Reports, 2017, 12, 219-231.	0.5	3

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73	Monogenetic volcanoes with initial phreatomagmatic phases in the Ceboruco graben, western Mexico: The cases of Potrerillo I, Potrerillo II, and San Juanito. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 412, 107184.	2.1	3
74	Las Cabras volcano, Michoacán-Guanajuato Volcanic Field, México: Topographic, climatic, and shallow magmatic controls on scoria cone eruptions. <i>Revista Mexicana De Ciencias Geológicas</i> , 2021, 38, 101-121.	0.4	3
75	Volcano-sedimentary processes at Las Derrumbadas rhyolitic twin domes, Serdán-Oriental Basin, Eastern Trans-Mexican Volcanic Belt. <i>Geological Society Special Publication</i> , 2023, 520, 165-189.	1.3	3
76	"The Process of Melt Differentiation in Arc Volcanic Rocks: Insights from OIB-type Arc Magmas in the Central Mexican Volcanic Belt" by Straub et al., A Critical Comment. <i>Journal of Petrology</i> , 2013, 54, 1547-1550.	2.8	0