

# William I Rose

## List of Publications by Citations

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136  
papers

8,386  
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56  
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87  
g-index

144  
ext. papers

9,046  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
136	A multidisciplinary effort to assign realistic source parameters to models of volcanic ash-cloud transport and dispersion during eruptions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2009</b> , 186, 10-21	2.8	456
135	Retrieval of sizes and total masses of particles in volcanic clouds using AVHRR bands 4 and 5. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 5421		287
134	Volatilization, transport and sublimation of metallic and non-metallic elements in high temperature gases at Merapi Volcano, Indonesia. <i>Geochimica Et Cosmochimica Acta</i> , <b>1987</b> , 51, 2083-2101	5.5	271
133	Eruptive history of Earth's largest Quaternary caldera (Toba, Indonesia) clarified. <i>Geology</i> , <b>1991</b> , 19, 2005		234
132	Dispersal of ash in the great Toba eruption, 75 ka. <i>Geology</i> , <b>1987</b> , 15, 913	5	202
131	Fine ash content of explosive eruptions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2009</b> , 186, 32-39	2.8	184
130	Contribution of C1- and F-bearing gases to the atmosphere by volcanoes. <i>Nature</i> , <b>1988</b> , 334, 415-418	50.4	184
129	Origin, speciation, and fluxes of trace-element gases at Augustine volcano, Alaska: Insights into magma degassing and fumarolic processes. <i>Geochimica Et Cosmochimica Acta</i> , <b>1992</b> , 56, 633-657	5.5	176
128	Scavenging of volcanic aerosol by ash: Atmospheric and volcanologic implications. <i>Geology</i> , <b>1977</b> , 5, 6215		167
127	Fumarole incrustations at active central american volcanoes. <i>Geochimica Et Cosmochimica Acta</i> , <b>1974</b> , 38, 495-516	5.5	149
126	Thermal infrared remote sensing of volcanic emissions using the moderate resolution imaging spectroradiometer. <i>Journal of Volcanology and Geothermal Research</i> , <b>2004</b> , 135, 75-89	2.8	144
125	Volatile loss from melt inclusions in pyroclasts of differing sizes. <i>Contributions To Mineralogy and Petrology</i> , <b>2013</b> , 165, 129-153	3.5	139
124	An estimate of gas emissions and magmatic gas content from Kilauea volcano. <i>Geochimica Et Cosmochimica Acta</i> , <b>1985</b> , 49, 125-129	5.5	133
123	Quantitative shape measurements of distal volcanic ash. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		131
122	Ice in the 1994 Rabaul eruption cloud: implications for volcano hazard and atmospheric effects. <i>Nature</i> , <b>1995</b> , 375, 477-479	50.4	130
121	Gas emissions and the eruptions of mount st. Helens through 1982. <i>Science</i> , <b>1983</b> , 221, 1383-5	33.3	115
120	Re-evaluation of SO2 release of the 15 June 1991 Pinatubo eruption using ultraviolet and infrared satellite sensors. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5, n/a-n/a	3.6	111

119	Excessive sulfur dioxide emissions from Chilean volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , <b>1991</b> , 46, 323-329	2.8	111
118	The October 1974 basaltic tephra from Fuego volcano: Description and history of the magma body. <i>Journal of Volcanology and Geothermal Research</i> , <b>1978</b> , 4, 3-53	2.8	110
117	Temporal trends in lava dome extrusion at Santiaguito 1922-2000. <i>Bulletin of Volcanology</i> , <b>2003</b> , 65, 77-89	2.4	108
116	Ice nucleation and overseeding of ice in volcanic clouds. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		102
115	Stratospheric Loading of Sulfur From Explosive Volcanic Eruptions. <i>Journal of Geology</i> , <b>1997</b> , 105, 671-684		101
114	Stratigraphy of the Toba Tuffs and the evolution of the Toba Caldera Complex, Sumatra, Indonesia. <i>Bulletin of Volcanology</i> , <b>1991</b> , 53, 343-356	2.4	99
113	Evaluation of gases, condensates, and SO <sub>2</sub> emissions from Augustine volcano, Alaska: the degassing of a Cl-rich volcanic system. <i>Bulletin of Volcanology</i> , <b>1990</b> , 52, 355-374	2.4	96
112	A voluminous avalanche-induced lahar from Citlaltépetl volcano, Mexico: Implications for hazard assessment. <i>Journal of Volcanology and Geothermal Research</i> , <b>1993</b> , 59, 35-46	2.8	90
111	The Geochemistry of Central American Volcanic Gas Condensates. <i>Bulletin of the Geological Society of America</i> , <b>1970</b> , 81, 2891	3.9	89
110	Weather radar observations of the Hekla 2000 eruption cloud, Iceland. <i>Bulletin of Volcanology</i> , <b>2004</b> , 66, 457-473	2.4	88
109	Chapter 1. VOLCANIC-GAS STUDIES: METHODS, RESULTS, AND APPLICATIONS <b>1994</b> , 1-66		86
108	Early evolution of a stratospheric volcanic eruption cloud as observed with TOMS and AVHRR. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 4037-4050		85
107	Atmospheric correction for satellite-based volcanic ash mapping and retrievals using split window IR data from GOES and AVHRR. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, AAC 10-1		84
106	Volatile transport and deposition of Mo, W and Re in high temperature magmatic fluids. <i>Applied Geochemistry</i> , <b>1990</b> , 5, 317-326	3.5	80
105	Halite particles injected into the stratosphere by the 1982 el chichon eruption. <i>Science</i> , <b>1985</b> , 230, 170-233		79
104	NanoSIMS results from olivine-hosted melt embayments: Magma ascent rate during explosive basaltic eruptions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2014</b> , 283, 1-18	2.8	76
103	Rates of sulfur dioxide and particle emissions from White Island volcano, New Zealand, and an estimate of the total flux of major gaseous species. <i>Bulletin of Volcanology</i> , <b>1986</b> , 48, 181-188	2.4	76
102	Crater lake and post-eruption hydrothermal activity, El Chichón Volcano, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , <b>1984</b> , 23, 169-191	2.8	76

101	Atmospheric chemistry of a 3384 hour old volcanic cloud from Hekla Volcano (Iceland): Insights from direct sampling and the application of chemical box modeling. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		75
100	Volcanic Ash Cloud Retrieval by Ground-Based Microwave Weather Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2006</b> , 44, 3235-3246	8.1	74
99	Edifice collapse and related hazards in Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>1995</b> , 66, 337-355	2.8	72
98	Observations of eruptive activity at Santiaguito volcano, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>2004</b> , 136, 297-302	2.8	71
97	The Evolution of Santa Mar <span>�</span> Volcano, Guatemala. <i>Journal of Geology</i> , <b>1977</b> , 85, 63-87	2	71
96	Observations of Volcanic Clouds in Their First Few Days of Atmospheric Residence: The 1992 Eruptions of Crater Peak, Mount Spurr Volcano, Alaska. <i>Journal of Geology</i> , <b>2001</b> , 109, 677-694	2	70
95	Nature and significance of small volume fall deposits at composite volcanoes: Insights from the October 14, 1974 Fuego eruption, Guatemala. <i>Bulletin of Volcanology</i> , <b>2008</b> , 70, 1043-1067	2.4	69
94	Sulfur dioxide and particles in quiescent volcanic plumes from Po <span>�</span> , Arenal, and Colima Volcanos, Costa Rica and Mexico. <i>Journal of Geophysical Research</i> , <b>1984</b> , 89, 9633		69
93	Volcanic particle aggregation in explosive eruption columns. Part I: Parameterization of the microphysics of hydrometeors and ash. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 150, 359-377	2.8	68
92	Holocene eruptive activity of el chichon volcano, chiapas, Mexico. <i>Science</i> , <b>1984</b> , 224, 747-9	33.3	68
91	The Los Chocoyos Ash, Guatemala: A Major Stratigraphic Marker in Middle America and in Three Ocean Basins. <i>Quaternary Research</i> , <b>1980</b> , 13, 327-345	1.9	65
90	Organic Compounds in Volcanic Gas from Santiaguito Volcano, Guatemala. <i>Bulletin of the Geological Society of America</i> , <b>1971</b> , 82, 2299	3.9	65
89	The evolution of an active silicic lava flow field: an ETM+ perspective. <i>Journal of Volcanology and Geothermal Research</i> , <b>2004</b> , 135, 147-168	2.8	64
88	Estimating particle sizes, concentrations, and total mass of ash in volcanic clouds using weather radar. <i>Journal of Geophysical Research</i> , <b>1983</b> , 88, 10969		64
87	Chemical Composition and Age Determination of Tholeiitic Rocks in the Basic Igneous Complex, Ecuador. <i>Bulletin of the Geological Society of America</i> , <b>1973</b> , 84, 1043	3.9	64
86	Scattering matrices of volcanic ash particles of Mount St. Helens, Redoubt, and Mount Spurr Volcanoes. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		63
85	Dynamic deformation of volcanic ejecta from the Toba caldera: Possible relevance to Cretaceous/Tertiary boundary phenomena. <i>Geology</i> , <b>1986</b> , 14, 380	5	62
84	Behavioral patterns of Fuego volcano, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>1981</b> , 10, 67-81	2.8	61

83	Effect of particle non-sphericity on satellite monitoring of drifting volcanic ash clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>1999</b> , 63, 613-630	2.1	60
82	Patterns in open vent, strombolian behavior at Fuego volcano, Guatemala, 2005-2007. <i>Bulletin of Volcanology</i> , <b>2010</b> , 72, 1-15	2.4	58
81	Sedimentological constraints on hydrometeor-enhanced particle deposition: 1992 Eruptions of Crater Peak, Alaska. <i>Journal of Volcanology and Geothermal Research</i> , <b>2009</b> , 186, 40-59	2.8	54
80	Numerical modeling of geophysical granular flows: 2. Computer simulations of plinian clouds and pyroclastic flows and surges. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5,	3.6	54
79	Santiaguito Volcanic Dome, Guatemala. <i>Bulletin of the Geological Society of America</i> , <b>1972</b> , 83, 1413	3.9	54
78	Volcanic particle aggregation in explosive eruption columns. Part II: Numerical experiments. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 150, 378-394	2.8	53
77	Geochemistry of tholeiites of the Basic Igneous Complex of northwestern South America. <i>Bulletin of the Geological Society of America</i> , <b>1977</b> , 88, 1711	3.9	53
76	Comparison of TOMS and AVHRR volcanic ash retrievals from the August 1992 eruption of Mt. Spurr. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 455-458	4.9	52
75	Long-range volcanic ash transport and fallout during the 2008 eruption of Chaitin volcano, Chile. <i>Physics and Chemistry of the Earth</i> , <b>2012</b> , 45-46, 50-64	3	51
74	Particles in the great Pinatubo volcanic cloud of June 1991: The role of ice. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5, n/a-n/a	3.6	51
73	An improved age framework for late Quaternary silicic eruptions in northern Central America. <i>Bulletin of Volcanology</i> , <b>1999</b> , 61, 106-120	2.4	51
72	Volcā El Chichā, Mexico: Pre-1982 S-rich eruptive activity. <i>Journal of Volcanology and Geothermal Research</i> , <b>1984</b> , 23, 147-167	2.8	50
71	Retrieval of mass and sizes of particles in sandstorms using two MODIS IR bands: A case study of April 7, 2001 sandstorm in China. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	49
70	Anatomy of 1986 Augustine volcano eruptions as recorded by multispectral image processing of digital AVHRR weather satellite data. <i>Bulletin of Volcanology</i> , <b>1991</b> , 53, 420-435	2.4	49
69	Determination of the total grain size distribution in a Vulcanian eruption column, and its implications to stratospheric aerosol perturbation. <i>Geophysical Research Letters</i> , <b>1980</b> , 7, 893-896	4.9	49
68	Fluxes, sizes, morphology and compositions of particles in the Mt. Erebus volcanic plume, December 1983. <i>Journal of Atmospheric Chemistry</i> , <b>1986</b> , 4, 467-477	3.2	46
67	Mount St. Helens and Santiaguito lava domes: The effect of short-term eruption rate on surface texture and degassing processes. <i>Journal of Volcanology and Geothermal Research</i> , <b>1995</b> , 69, 105-116	2.8	45
66	Comment on 'Another look at the calculation of fallout tephra volumes' by Judy Fierstein and Manuel Nathenson. <i>Bulletin of Volcanology</i> , <b>1993</b> , 55, 372-374	2.4	44

65	Santa Mar <span>�</span> , Guatemala: Bimodal soda-rich calc-alkalic stratovolcano. <i>Journal of Volcanology and Geothermal Research</i> , <b>1987</b> , 33, 109-129	2.8	44
64	Rate of sulphur dioxide emission from Erebus volcano, Antarctica, December 1983. <i>Nature</i> , <b>1985</b> , 316, 710-712	50.4	44
63	A volcanologist's review of atmospheric hazards of volcanic activity: Fuego and Mount St. Helens. <i>Journal of Volcanology and Geothermal Research</i> , <b>1983</b> , 17, 133-157	2.8	43
62	Direct Rate Measurements of Eruption Plumes at Augustine Volcano: A Problem of Scaling and Uncontrolled Variables. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 4485-4499		42
61	Microphysical characterization of microwave Radar reflectivity due to volcanic ash clouds. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2006</b> , 44, 313-327	8.1	38
60	CENTAM A data base of Central American volcanic rocks. <i>Journal of Volcanology and Geothermal Research</i> , <b>1987</b> , 33, 239-240	2.8	38
59	Amatitlan, An actively resurging cauldron 10 km south of Guatemala City. <i>Journal of Geophysical Research</i> , <b>1984</b> , 89, 8525		38
58	Origin of silicic magmas along the Central American volcanic front: Genetic relationship to mafic melts. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 156, 217-228	2.8	37
57	Geochemistry and evolution of the fuego volcanic complex, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>1984</b> , 21, 25-44	2.8	37
56	SO2 emissions to the atmosphere from active volcanoes in Guatemala and El Salvador, 1999-2002. <i>Journal of Volcanology and Geothermal Research</i> , <b>2004</b> , 138, 325-344	2.8	36
55	Potassium content of lavas and depth to the seismic zone in central america. <i>Journal of Volcanology and Geothermal Research</i> , <b>1979</b> , 5, 387-401	2.8	36
54	Eruption of a major Holocene pyroclastic flow at Citlalt <span>�</span> petl volcano (Pico de Orizaba), M <span>�</span> xico, 8.5 <span>�</span> 0 ka. <i>Journal of Volcanology and Geothermal Research</i> , <b>1995</b> , 69, 197-215	2.8	35
53	The magmatic plumbing system beneath Santiaguito Volcano, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>2012</b> , 237-238, 54-68	2.8	34
52	Explosion dynamics of pyroclastic eruptions at Santiaguito Volcano. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	34
51	Quaternary silicic pyroclastic deposits of Atit <span>�</span> l Caldera, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>1987</b> , 33, 57-80	2.8	34
50	Halogen emissions from a small volcanic eruption: Modeling the peak concentrations, dispersion, and volcanically induced ozone loss in the stratosphere. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	31
49	Volcanic activity at Santiaguito volcano, 1976-1984. <i>Special Paper of the Geological Society of America</i> , <b>1987</b> , 17-28		31
48	An integrated field-numerical approach to assess slope stability hazards at volcanoes: the example of Pacaya, Guatemala. <i>Bulletin of Volcanology</i> , <b>2013</b> , 75, 1	2.4	26

47	Shape and surface area measurements using scanning electron microscope stereo-pair images of volcanic ash particles <b>2010</b> , 6, 805-811		26
46	Use of GOES thermal infrared imagery for eruption scale measurements, Soufrière Hills, Montserrat. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3097-3100	4.9	25
45	The 1966 eruption of Izalco Volcano, El Salvador. <i>Journal of Geophysical Research</i> , <b>1969</b> , 74, 3119-3130		25
44	Dynamics of carbon dioxide emissions, crystallization, and magma ascent: hypotheses, theory, and applications to volcano monitoring at Mount St. Helens. <i>Bulletin of Volcanology</i> , <b>1996</b> , 58, 163-174	2.4	24
43	Geochemistry and evolution of the Santiaguito volcanic dome complex, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>2013</b> , 252, 92-107	2.8	23
42	Rapid, high-quality major and trace element analysis of powdered rock by X-ray fluorescence spectrometry. <i>X-Ray Spectrometry</i> , <b>1986</b> , 15, 55-60	0.9	23
41	Toms and Avhrr Observations of Drifting Volcanic Clouds from the August 1991 Eruptions of Cerro Hudson. <i>Geophysical Monograph Series</i> , <b>2000</b> , 45-64	1.1	22
40	Volcanic ash in ancient Maya ceramics of the limestone lowlands: implications for prehistoric volcanic activity in the Guatemala highlands. <i>Journal of Volcanology and Geothermal Research</i> , <b>1995</b> , 66, 149-162	2.8	22
39	Remote sensing of volcanos and volcanic terrains. <i>Eos</i> , <b>1989</b> , 70, 1567	1.5	22
38	Geochemistry of the Los Chocoyos Ash, Quezaltenango Valley, Guatemala. <i>Special Paper of the Geological Society of America</i> , <b>1979</b> , 87-100		22
37	Satellite images offer aircraft protection from volcanic ash clouds. <i>Eos</i> , <b>1996</b> , 77, 529-532	1.5	21
36	El Chichón volcano, April 4, 1982: volcanic cloud history and fine ash fallout. <i>Natural Hazards</i> , <b>2009</b> , 51, 363-374	3	20
35	Cerro Quemado, Guatemala: the volcanic history and hazards of an exogenous volcanic dome complex. <i>Journal of Volcanology and Geothermal Research</i> , <b>1992</b> , 52, 303-323	2.8	20
34	Common characteristics of paired volcanoes in northern Central America. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 4467-4476		20
33	Explosive eruptions of the Ayarza calderas, southeastern Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , <b>1985</b> , 25, 289-307	2.8	20
32	The size range of bubbles that produce ash during explosive volcanic eruptions. <i>Journal of Applied Volcanology</i> , <b>2013</b> , 2,	2.6	19
31	Particle sizes of andesitic ash fallout from vertical eruptions and co-pyroclastic flow clouds, Volcán de Colima, Mexico. <i>Geology</i> , <b>2009</b> , 37, 935-938	5	19
30	Interaction of aircraft and explosive eruption clouds - A volcanologist's perspective. <i>AIAA Journal</i> , <b>1987</b> , 25, 52-58	2.1	19

29	Detailed record of SO <sub>2</sub> emissions from Pu'u 'O'o between episodes 33 and 34 of the 1983-86 ERZ eruption, Kilauea, Hawaii. <i>Bulletin of Volcanology</i> , <b>1988</b> , 50, 215-228	2.4	19
28	Open-vent volcanism and related hazards: Overview <b>2013</b> ,		19
27	Geochemical correlation of genetically related rhyolitic ash-flow and air-fall ashes, central and western Guatemala and the equatorial Pacific. <i>Special Paper of the Geological Society of America</i> , <b>1979</b> , 101-112		18
26	Remote sensing of volcanic ash clouds using special sensor microwave imager data. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 11579-11588		17
25	Santa Mar <span>�</span> , Guatemala: A decade volcano. <i>Eos</i> , <b>1992</b> , 73, 521-521	1.5	17
24	Worldwide dispersal of ash and gases from earth's largest known eruption: Toba, Sumatra, 75 ka. <i>Global and Planetary Change</i> , <b>1990</b> , 3, 269-275	4.2	16
23	Surface temperature and spectral measurements at Santiaguito lava dome, Guatemala. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	15
22	Advantageous GOES IR results for ash mapping at high latitudes: Cleveland eruptions 2001. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	14
21	Retrieval of Sulfate and Silicate Ash Masses in Young (1 to 4 Days Old) Eruption Clouds Using Multiband Infrared HIRS/2 Data. <i>Geophysical Monograph Series</i> , <b>2000</b> , 87-100	1.1	14
20	GOES imagery fills gaps in Montserrat volcanic cloud observations. <i>Eos</i> , <b>1998</b> , 79, 505-505	1.5	14
19	Volcanic emissions from Popocatepetl volcano, Mexico, quantified using Moderate Resolution Imaging Spectroradiometer (MODIS) infrared data: A case study of the December 2000-January 2001 emissions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 170, 76-85	2.8	12
18	Integrating petrologic and remote sensing perspectives on magmatic volatiles and volcanic degassing. <i>Eos</i> , <b>2003</b> , 84, 441	1.5	10
17	Research on atmospheric volcanic emissions: An overview. <i>Geophysical Research Letters</i> , <b>1982</b> , 9, 1101-1104	1.4	10
16	A global framework for the Earth: putting geological sciences in context. <i>Global and Planetary Change</i> , <b>2018</b> , 171, 293-321	4.2	8
15	Downstream aggradation owing to lava dome extrusion and rainfall runoff at Volcan Santiaguito, Guatemala <b>2006</b> ,		8
14	Age and Magma Flux of Santa Mar <span>�</span> Volcano, Guatemala: Correlation of Paleomagnetic Waveforms with the 28,000 to 25,000 yr B.P. Mono Lake Excursion. <i>Journal of Geology</i> , <b>1994</b> , 102, 11-24	2	8
13	A 50 yr eruption of a basaltic composite cone: Pacaya, Guatemala <b>2013</b> ,		7
12	Gas and hydrogen isotopic analyses of volcanic eruption clouds in Guatemala sampled by aircraft. <i>Journal of Volcanology and Geothermal Research</i> , <b>1980</b> , 7, 1-10	2.8	7



11	An eruptive history of Maderas volcano using new $^{40}\text{Ar}/^{39}\text{Ar}$ ages and geochemical analyses. <i>Bulletin of Volcanology</i> , <b>2012</b> , 74, 2007-2021	2.4	6
10	Jacobsville Sandstone: a candidate for nomination for ?Global Heritage Stone Resource? from Michigan, USA. <i>Episodes</i> , <b>2017</b> , 40, 213-219	1.6	6
9	Volcano hazards at Fuego and Acatenango, Guatemala. <i>US Geological Survey Open-File Report</i> ,		6
8	Inter-laboratory comparison of X-ray fluorescence analyses of eruptive products of El Chichón Volcano, Chiapas, Mexico. <i>Applied Geochemistry</i> , <b>1987</b> , 2, 337-345	3.5	4
7	Distribution and mobility of uranium and thorium in the peralkaline Soldier Meadow Tuff, northwestern Nevada. <i>Economic Geology</i> , <b>1983</b> , 78, 353-358	4.3	4
6	Collaborative studies target volcanic hazards in Central America. <i>Eos</i> , <b>2002</b> , 83, 429	1.5	3
5	Natural hazards and risk mitigation in El Salvador: An introduction <b>2004</b> ,		3
4	Large-volume Barriles and Caisón debris avalanche deposits from Volcán BarúPanama <b>2013</b> ,		2
3	Remote sensing of volcanic clouds shows promise. <i>Eos</i> , <b>2001</b> , 82, 471-471	1.5	
2	Direct Rate Measurements of Eruption Plumes at Augustine Volcano: A problem of Scaling and Uncontrolled Variables. <i>Collected Reprint Series</i> ,4485-4499		
1	Common Characteristics of Paired Volcanoes in Northern Central America. <i>Collected Reprint Series</i> ,4467-4476		