

Diana C Roman

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,577
citations

304743

22
h-index

330143

37
g-index

60
all docs

60
docs citations

60
times ranked

1414
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of volcano-tectonic earthquake swarms. <i>Geology</i> , 2006, 34, 457.	4.4	168
2	Failed magmatic eruptions: late-stage cessation of magma ascent. <i>Bulletin of Volcanology</i> , 2011, 73, 115-122.	3.0	132
3	Geological and palaeontological context of a Pliocene juvenile hominin at Dikika, Ethiopia. <i>Nature</i> , 2006, 443, 332-336.	27.8	109
4	Temporal and Spatial Variation of Local Stress Fields before and after the 1992 Eruptions of Crater Peak Vent, Mount Spurr Volcano, Alaska. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 2366-2379.	2.3	74
5	The Pleistocene fauna (other than Primates) from Asbole, lower Awash Valley, Ethiopia, and its environmental and biochronological implications. <i>Geobios</i> , 2004, 37, 697-718.	1.4	68
6	Assessing the likelihood of volcanic eruption through analysis of volcanotectonic earthquake faultâ€™plane solutions. <i>Earth and Planetary Science Letters</i> , 2006, 248, 244-252.	4.4	68
7	Volcanic Seismicity. , 2015, , 1011-1034.		64
8	Evidence for dike emplacement beneath Iliamna Volcano, Alaska in 1996. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 130, 265-284.	2.1	61
9	Storage and interaction of compositionally heterogeneous magmas from the 1986 eruption of Augustine Volcano, Alaska. <i>Bulletin of Volcanology</i> , 2006, 68, 240-254.	3.0	60
10	Numerical models of volcanotectonic earthquake triggering on non-ideally oriented faults. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	51
11	When does eruption run-up begin? Multidisciplinary insight from the 1999 eruption of Shishaldin volcano. <i>Earth and Planetary Science Letters</i> , 2018, 486, 1-14.	4.4	45
12	Topâ€™Down Precursory Volcanic Seismicity: Implications for â€™Stealthâ€™ Magma Ascent and Long-Term Eruption Forecasting. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	41
13	Patterns of volcanotectonic seismicity and stress during the ongoing eruption of the SoufriÃˆre Hills Volcano, Montserrat (1995â€™2007). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 173, 230-244.	2.1	37
14	Alaska Volcano Observatory Alert and Forecasting Timeliness: 1989â€™2017. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	35
15	Stable and unstable phases of elevated seismic activity at the persistently restless Telica Volcano, Nicaragua. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 290, 63-74.	2.1	32
16	Seismicity accompanying the 1999 eruptive episode at Telica Volcano, Nicaragua. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 265, 39-51.	2.1	31
17	Magmatic water content controls the pre-eruptive depth of arc magmas. <i>Science</i> , 2022, 375, 1169-1172.	12.6	31
18	Analysis and forward modeling of seismic anisotropy during the ongoing eruption of the SoufriÃˆre Hills Volcano, Montserrat, 1996â€™2007. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27

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19	Effect of regional tectonic setting on local fault response to episodes of volcanic activity. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	26
20	Multidisciplinary observations of the 2011 explosive eruption of Telica volcano, Nicaragua: Implications for the dynamics of low-explosivity ash eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 271, 55-69.	2.1	25
21	Assessing the likelihood and magnitude of volcanic explosions based on seismic quiescence. <i>Earth and Planetary Science Letters</i> , 2016, 450, 20-28.	4.4	24
22	Temporal changes in stress preceding the 2004–2008 eruption of Mount St. Helens, Washington. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 129-142.	2.1	23
23	An examination of the continuous wavelet transform for volcano-seismic spectral analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 389, 106728.	2.1	22
24	Mechanism of the 1996–97 non-eruptive volcano-tectonic earthquake swarm at Iliamna Volcano, Alaska. <i>Bulletin of Volcanology</i> , 2011, 73, 143-153.	3.0	21
25	Fossils from Mille-Logya, Afar, Ethiopia, elucidate the link between Pliocene environmental changes and Homo origins. <i>Nature Communications</i> , 2020, 11, 2480.	12.8	20
26	Joint analysis of geodetic and earthquake fault-plane solution data to constrain magmatic sources: A case study from K�lauea Volcano. <i>Earth and Planetary Science Letters</i> , 2016, 455, 38-48.	4.4	17
27	Moderate‐magnitude earthquakes induced by magma reservoir inflation at K�lauea Volcano, Hawai�i. <i>Geophysical Research Letters</i> , 2013, 40, 5366-5370.	4.0	16
28	Linking Subsurface to Surface Using Gas Emission and Melt Inclusion Data at Mount Cleveland Volcano, Alaska. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008882.	2.5	16
29	Stratigraphy, depositional environments, and basin structure of the Hadar and Busidima Formations at Dikika, Ethiopia. , 2008, , .		15
30	Seismological evidence for long-term and rapidly accelerating magma pressurization preceding the 2009 eruption of Redoubt Volcano, Alaska. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 226-234.	4.4	15
31	Automated detection and characterization of harmonic tremor in continuous seismic data. <i>Geophysical Research Letters</i> , 2017, 44, 6065-6073.	4.0	15
32	Mechanisms of Unrest and Eruption at Persistently Restless Volcanoes: Insights From the 2015 Eruption of Telica Volcano, Nicaragua. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4162-4183.	2.5	15
33	Aseismic mid-crustal magma reservoir at Cleveland Volcano imaged through novel receiver function analyses. <i>Scientific Reports</i> , 2020, 10, 1780.	3.3	15
34	Earthquakes indicated magma viscosity during K�lauea�™s 2018 eruption. <i>Nature</i> , 2021, 592, 237-241.	27.8	15
35	Volcanic tremors and magma wagging: gas flux interactions and forcing mechanism. <i>Geophysical Journal International</i> , 2013, 195, 1001-1022.	2.4	13
36	Multiple causes for non-eruptive seismic swarms at Mt. Martin, Katmai Volcanic Cluster, Alaska (2004–2008). <i>Journal of Volcanology and Geothermal Research</i> , 2012, 229-230, 13-22.	2.1	11

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37	Peakmatch: A Java Program for Multiplet Analysis of Large Seismic Datasets. <i>Seismological Research Letters</i> , 2015, 86, 1208-1218.	1.9	10
38	Modulation of seismic activity in K��lauea��'s upper East Rift Zone (Hawaii��) by summit pressurization. <i>Geology</i> , 2019, 47, 820-824.	4.4	10
39	Evaluating the state-of-the-art in remote volcanic eruption characterization Part II: Uluwun volcano, Papua New Guinea. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 420, 107381.	2.1	10
40	Complex magmatic-tectonic interactions during the 2020 Makushin Volcano, Alaska, earthquake swarm. <i>Earth and Planetary Science Letters</i> , 2022, 587, 117538.	4.4	10
41	Using repeating volcano-tectonic earthquakes to track post-eruptive activity in the conduit system at Redoubt Volcano, Alaska. <i>Geology</i> , 2013, 41, 511-514.	4.4	9
42	High Rates of Inflation During a Noneruptive Episode of Seismic Unrest at Semisopochnoi Volcano, Alaska in 2014��2015. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6163-6186.	2.5	9
43	Understanding the timing of eruption end using a machine learning approach to classification of seismic time series. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 401, 106917.	2.1	7
44	Special issue ��Towards forecasting phreatic eruptions: examples from Hakone volcano and some global equivalents��. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	7
45	Ongoing (2015��) Magma Surge in the Upper Mantle Beneath the Island of Hawaii��. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091096.	4.0	6
46	Machine learning approaches to identifying changes in eruptive state using multi��parameter datasets from the 2006 eruption of Augustine Volcano, Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 0, , e2021JB022323.	3.4	6
47	Source mechanisms of persistent shallow earthquakes during eruptive and non-eruptive periods between 1981 and 2011 at Mount St. Helens, Washington. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 256, 1-15.	2.1	5
48	Modeling deformation, seismicity, and thermal anomalies driven by degassing during the 2005-2006 pre-eruptive unrest of Augustine Volcano, Alaska. <i>Earth and Planetary Science Letters</i> , 2022, 585, 117524.	4.4	5
49	The Mw��4.2 Delaware Earthquake of 30 November 2017. <i>Seismological Research Letters</i> , 2018, 89, 2447-2460.	1.9	4
50	Earthquakes Indicated Stress Field Change During the 2006 Unrest of Augustine Volcano, Alaska. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
51	Ps��P Tomography of a Midcrustal Magma Reservoir Beneath Cleveland Volcano, Alaska. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090406.	4.0	3
52	Seismic and geodetic investigation of the 1996-1998 earthquake swarm at Strandline Lake, Alaska. <i>Geophysical Journal International</i> , 2011, 186, 1365-1379.	2.4	2
53	Volcanology, Geochemistry, and Petrology Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. <i>Earth and Space Science</i> , 2022, 9, .	2.6	2
54	Digitization of the Carnegie Analog Broadband Instruments Tape Records (1965��1996). <i>Seismological Research Letters</i> , 2020, 91, 1441-1451.	1.9	1

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55	Quantifying Eruptive and Background Seismicity, Deformation, Degassing, and Thermal Emissions at Volcanoes in the United States During 1978–2020. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021684.	3.4	1