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List of Publications by Year in descending order

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63 papers	3,159 citations	159585 30 h-index	161849 54 g-index
63 all docs	63 docs citations	63 times ranked	2541 citing authors

#	Article	IF	Citations
1	GPS geodetic constraints on Caribbean-North America Plate Motion. Geophysical Research Letters, 2000, 27, 437-440.	4.0	288
2	Oblique collision in the northeastern Caribbean from GPS measurements and geological observations. Tectonics, 2002, 21, 7-1-7-26.	2.8	184
3	Transpressional rupture of an unmapped fault during the 2010 Haiti earthquake. Nature Geoscience, 2010, 3, 794-799.	12.9	176
4	Interseismic Plate coupling and strain partitioning in the Northeastern Caribbean. Geophysical Journal International, 2008, 174, 889-903.	2.4	164
5	GPS estimate of relative motion between the Caribbean and South American plates, and geologic implications for Trinidad and Venezuela. Geology, 2001, 29, 75.	4.4	158
6	Foreâ€arc motion and Cocos Ridge collision in Central America. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	155
7	Magnetite activities across the MgAl2O4-Fe3O4 spinel join, with application to thermobarometric estimates of upper mantle oxygen fugacity. Contributions To Mineralogy and Petrology, 1988, 98, 148-162.	3.1	121
8	Neotectonics of Puerto Rico and the Virgin Islands, northeastern Caribbean, from GPS geodesy. Tectonics, 2000, 19, 1021-1037.	2.8	104
9	Lithosphereï¿½ï¿½atmosphereï¿½ï¿½ionosphere coupling after the 2003 explosive eruption of the Soufriere Hills Volcano, Montserrat. Geophysical Journal International, 2009, 179, 1537-1546.	2.4	94
10	Global Positioning System detection and energy estimation of the ionospheric wave caused by the 13 July 2003 explosion of the SoufriÃ¨re Hills Volcano, Montserrat. Journal of Geophysical Research, 2009, 114, .	3.3	93
11	Strain partitioning and fault slip rates in the northeastern Caribbean from GPS measurements. Geophysical Research Letters, 2002, 29, 3-1-3-4.	4.0	91
12	Implications of Magma Transfer Between Multiple Reservoirs on Eruption Cycling. Science, 2008, 322, 246-248.	12.6	87
13	Unprecedented pressure increase in deep magma reservoir triggered by lava-dome collapse. Geophysical Research Letters, 2006, 33, .	4.0	84
14	Upper mantle oxygen fugacity recorded by spinel lherzolites. Nature, 1986, 322, 626-628.	27.8	82
15	Upper Mantle Oxygen Fugacity and Its Relationship to Metasomatism. Journal of Geology, 1989, 97, 521-536.	1.4	72
16	GPS measurement of surface deformation around Soufriere Hills Volcano, Montserrat from October 1995 to July 1996. Geophysical Research Letters, 1998, 25, 3417-3420.	4.0	58
17	GPS-derived coupling estimates for the Central America subduction zone and volcanic arc faults: El Salvador, Honduras and Nicaragua. Geophysical Journal International, 2009, 179, 1279-1291.	2.4	56
18	Surface creep on the North Anatolian Fault at Ismetpasa, Turkey, 1944â€“2016. Journal of Geophysical Research: Solid Earth, 2016, 121, 7409-7431.	3.4	55

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19	Kinematics of the Nicaraguan forearc from GPS geodesy. Geophysical Research Letters, 2007, 34, .	4.0	50
20	Forearc motion and deformation between El Salvador and Nicaragua: GPS, seismic, structural, and paleomagnetic observations. Lithosphere, 2011, 3, 3-21.	1.4	50
21	Ground deformation at SoufriÃ¨re Hills Volcano, Montserrat during 1998â€“2000 measured by radar interferometry and GPS. Journal of Volcanology and Geothermal Research, 2006, 152, 157-173.	2.1	46
22	Effect of mechanical heterogeneity in arc crust on volcano deformation with application to SoufriÃ¨re Hills Volcano, Montserrat, West Indies. Journal of Geophysical Research, 2010, 115, .	3.3	46
23	Magmaâ€sponge hypothesis and stratovolcanoes: Case for a compressible reservoir and quasiâ€steady deep influx at SoufriÃ¨re Hills Volcano, Montserrat. Geophysical Research Letters, 2010, 37, .	4.0	45
24	Tectonic strain in plate interiors?. Nature, 2005, 438, E9-E10.	27.8	43
25	Threeâ€dimensional seismic velocity tomography of Montserrat from the SEAâ€CALIPSO offshore/onshore experiment. Geophysical Research Letters, 2010, 37, .	4.0	43
26	Seismogeodesy Using GPS and Lowâ€Cost MEMS Accelerometers: Perspectives for Earthquake Early Warning and Rapid Response. Bulletin of the Seismological Society of America, 2016, 106, 2469-2489.	2.3	40
27	Tectonic relationships between forearc-basin strata and the accretionary complex at Bath, Barbados. Bulletin of the Geological Society of America, 1985, 96, 861.	3.3	37
28	Vulcanian explosion at SoufriÃ¨re Hills Volcano, Montserrat on March 2004 as revealed by strain data. Geophysical Research Letters, 2010, 37, .	4.0	37
29	Unique and remarkable dilatometer measurements of pyroclastic flowâ€“generated tsunamis. Geology, 2007, 35, 25.	4.4	36
30	Influence of extrusion rate and magma rheology on the growth of lava domes: Insights from particle-dynamics modeling. Journal of Volcanology and Geothermal Research, 2014, 285, 100-117.	2.1	35
31	TLALOCNet: A Continuous GPSâ€Met Backbone in Mexico for Seismotectonic and Atmospheric Research. Seismological Research Letters, 2018, 89, 373-381.	1.9	31
32	Long term surface deformation of SoufriÃ¨re Hills Volcano, Montserrat from GPS geodesy: Inferences from simple elastic inverse models. Geophysical Research Letters, 2010, 37, .	4.0	29
33	Focused study of interweaving hazards across the Caribbean. Eos, 2012, 93, 89-90.	0.1	28
34	Dual reservoir structure at SoufriÃ¨re Hills Volcano inferred from continuous GPS observations and heterogeneous elastic modeling. Geophysical Research Letters, 2010, 37, .	4.0	27
35	Prototype PBO instrumentation of CALIPSO project captures world-record lava dome collapse on Montserrat Volcano. Eos, 2004, 85, 317.	0.1	26
36	Chapter 11 Volcano geodesy at the SoufriÃ¨re Hills Volcano, Montserrat: a review. Geological Society Memoir, 2014, 39, 195-217.	1.7	26

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37	Prehistoric Stratigraphy of the SoufriÃ¨re Hillsâ€“South SoufriÃ¨re Hills Volcanic Complex, Montserrat, West Indies. Journal of Geology, 2007, 115, 115-127.	1.4	24
38	Present motion and deformation of the Caribbean plate: Constraints from new GPS geodetic measurements from Honduras and Nicaragua. , 2007, , .		23
39	GPS results from Puerto Rico and the Virgin Islands: Constraints on tectonic setting and rates of active faulting. , 2005, , .		23
40	Explosion dynamics from strainmeter and microbarometer observations, SoufriÃ¨re Hills Volcano, Montserrat: 2008â€“2009. Geophysical Research Letters, 2010, 37, .	4.0	22
41	Investigation of biological, chemical and physical processes on and in planetary surfaces by laboratory simulation. Planetary and Space Science, 2002, 50, 821-828.	1.7	20
42	Regional Global Navigation Satellite System Networks for Crustal Deformation Monitoring. Seismological Research Letters, 2019, 91, 552-572.	1.9	20
43	CARIB18: A Stable Geodetic Reference Frame for Geological Hazard Monitoring in the Caribbean Region. Remote Sensing, 2019, 11, 680.	4.0	19
44	Evaluation of Earthquake Magnitude Estimation and Event Detection Thresholds for Real-Time GNSS Networks: Examples from Recent Events Captured by the Network of the Americas. Seismological Research Letters, 2020, 91, 1628-1645.	1.9	19
45	Unique strainmeter observations of Vulcanian explosions, SoufriÃ¨re Hills Volcano, Montserrat, July 2003. Geophysical Research Letters, 2010, 37, .	4.0	17
46	Experimental determination of the chromium-aluminum mixing parameter in garnet. Geochimica Et Cosmochimica Acta, 1984, 48, 1367-1371.	3.9	16
47	Title is missing!. Natural Hazards, 2001, 23, 65-86.	3.4	16
48	Active Source Seismic Experiment Peers Under SoufriÃ¨re Hills Volcano. Eos, 2010, 91, 245-247.	0.1	16
49	The 2012 August 27M_w7.3 El Salvador earthquake: expression of weak coupling on the Middle America subduction zone. Geophysical Journal International, 2015, 202, 1677-1689.	2.4	16
50	Chapter 7.2â€ƒMount Erebus. Geological Society Memoir, 2021, 55, 695-739.	1.7	15
51	Magmatic-metering controls the stopping and restarting of eruptions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	14
52	The GAGE Data and Field Response to the 2019 Ridgecrest Earthquake Sequence. Seismological Research Letters, 2020, 91, 2075-2086.	1.9	14
53	Geodetic imaging of thermal deformation in geothermal reservoirs - production, depletion and fault reactivation. Journal of Volcanology and Geothermal Research, 2017, 338, 79-91.	2.1	12
54	Influence of conduit flow mechanics on magma rheology and the growth style of lava domes. Geophysical Journal International, 2018, 213, 1768-1784.	2.4	12

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55	Distal ash hurricane (pyroclastic density current) deposits from a ca. 2000 yr B.P. Plinian-style eruption of Mount PelÃ©e, Martinique: Distribution, grain-size characteristics, and implications for future hazard. Bulletin of the Geological Society of America, 2016, 128, 777-791.	3.3	10
56	The Volcanic Geology of the Mid-Arc Island of Dominica, Lesser Antillesâ€"The Surface Expression of an Island-Arc Batholith. , 2013, , .		9
57	Morphologic variation of an evolving dome controlled by the extrusion of finite yield strength magma. Journal of Volcanology and Geothermal Research, 2019, 370, 51-64.	2.1	7
58	Chapter 12 Geodetic imaging of magma migration at SoufriÃ¨re Hills Volcano 1995 to 2008. Geological Society Memoir, 2014, 39, 219-227.	1.7	5
59	Chapter 15 The SEA-CALIPSO volcano imaging experiment at Montserrat: plans, campaigns at sea and on land, scientific results, and lessons learned. Geological Society Memoir, 2014, 39, 253-289.	1.7	5
60	A desktop image processing and photogrammetric method for rapid volcanic hazard mapping: application to air-photo interpretation of Mount PelÃ©e, Martinique. Bulletin of Volcanology, 1996, 58, 401-410.	3.0	3
61	Slicer Laser Altimetry In The Eastern Caribbean. Surveys in Geophysics, 2001, 22, 561-579.	4.6	2
62	Partnering with Cuba: Weather extremes. Science, 2014, 345, 278-278.	12.6	2
63	Northeastern Caribbean topography gets a digital upgrade from laser altimetry. Eos, 1999, 80, 511-511.	0.1	1