

Glen Mattioli

List of Publications by Year in descending order

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63
papers

3,159
citations

159358

30
h-index

161609

54
g-index

63
all docs

63
docs citations

63
times ranked

2541
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 7.2â€fMount Erebus. Geological Society Memoir, 2021, 55, 695-739.	0.9	15
2	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.	0.8	19
3	The GAGE Data and Field Response to the 2019 Ridgecrest Earthquake Sequence. Seismological Research Letters, 2020, 91, 2075-2086.	0.8	14
4	CARIB18: A Stable Geodetic Reference Frame for Geological Hazard Monitoring in the Caribbean Region. Remote Sensing, 2019, 11, 680.	1.8	19
5	Regional Global Navigation Satellite System Networks for Crustal Deformation Monitoring. Seismological Research Letters, 2019, 91, 552-572.	0.8	20
6	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.	0.8	7
7	Influence of conduit flow mechanics on magma rheology and the growth style of lava domes. Geophysical Journal International, 2018, 213, 1768-1784.	1.0	12
8	TLALOCNet: A Continuous GPSâ€Met Backbone in Mexico for Seismotectonic and Atmospheric Research. Seismological Research Letters, 2018, 89, 373-381.	0.8	31
9	Geodetic imaging of thermal deformation in geothermal reservoirs - production, depletion and fault reactivation. Journal of Volcanology and Geothermal Research, 2017, 338, 79-91.	0.8	12
10	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.	1.6	10
11	Surface creep on the North Anatolian Fault at Ismetpasa, Turkey, 1944â€“2016. Journal of Geophysical Research: Solid Earth, 2016, 121, 7409-7431.	1.4	55
12	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.	1.1	40
13	The 2012 August 27 <i>M</i> _w 7.3 El Salvador earthquake: expression of weak coupling on the Middle America subduction zone. Geophysical Journal International, 2015, 202, 1677-1689.	1.0	16
14	Partnering with Cuba: Weather extremes. Science, 2014, 345, 278-278.	6.0	2
15	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.	0.8	35
16	Chapter 11 Volcano geodesy at the SoufriÃˆre Hills Volcano, Montserrat: a review. Geological Society Memoir, 2014, 39, 195-217.	0.9	26
17	Chapter 12 Geodetic imaging of magma migration at SoufriÃˆre Hills Volcano 1995 to 2008. Geological Society Memoir, 2014, 39, 219-227.	0.9	5
18	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.	0.9	5

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19	The Volcanic Geology of the Mid-Arc Island of Dominica, Lesser Antillesâ€”The Surface Expression of an Island-Arc Batholith. , 2013, , .		9
20	Focused study of interweaving hazards across the Caribbean. Eos, 2012, 93, 89-90.	0.1	28
21	Magmatic-metering controls the stopping and restarting of eruptions. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	14
22	Forearc motion and deformation between El Salvador and Nicaragua: GPS, seismic, structural, and paleomagnetic observations. Lithosphere, 2011, 3, 3-21.	0.6	50
23	Transpressional rupture of an unmapped fault during the 2010 Haiti earthquake. Nature Geoscience, 2010, 3, 794-799.	5.4	176
24	Vulcanian explosion at Soufriere Hills Volcano, Montserrat on March 2004 as revealed by strain data. Geophysical Research Letters, 2010, 37, .	1.5	37
25	Long term surface deformation of Soufriere Hills Volcano, Montserrat from GPS geodesy: Inferences from simple elastic inverse models. Geophysical Research Letters, 2010, 37, .	1.5	29
26	Effect of mechanical heterogeneity in arc crust on volcano deformation with application to Soufriere Hills Volcano, Montserrat, West Indies. Journal of Geophysical Research, 2010, 115, .	3.3	46
27	Active Source Seismic Experiment Peers Under Soufriere Hills Volcano. Eos, 2010, 91, 245-247.	0.1	16
28	Three-dimensional seismic velocity tomography of Montserrat from the SEAâ€”CALIPSO offshore/onshore experiment. Geophysical Research Letters, 2010, 37, .	1.5	43
29	Dual reservoir structure at Soufriere Hills Volcano inferred from continuous GPS observations and heterogeneous elastic modeling. Geophysical Research Letters, 2010, 37, .	1.5	27
30	Unique strainmeter observations of Vulcanian explosions, Soufriere Hills Volcano, Montserrat, July 2003. Geophysical Research Letters, 2010, 37, .	1.5	17
31	Explosion dynamics from strainmeter and microbarometer observations, Soufriere Hills Volcano, Montserrat: 2008â€”2009. Geophysical Research Letters, 2010, 37, .	1.5	22
32	Magmaâ€”sponge hypothesis and stratovolcanoes: Case for a compressible reservoir and quasiâ€”steady deep influx at Soufriere Hills Volcano, Montserrat. Geophysical Research Letters, 2010, 37, .	1.5	45
33	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.	1.0	56
34	Lithosphereâ€”ionosphere coupling after the 2003 explosive eruption of the Soufriere Hills Volcano, Montserrat. Geophysical Journal International, 2009, 179, 1537-1546.	1.0	94
35	Forearc motion and Cocos Ridge collision in Central America. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	155
36	Global Positioning System detection and energy estimation of the ionospheric wave caused by the 13 July 2003 explosion of the Soufriere Hills Volcano, Montserrat. Journal of Geophysical Research, 2009, 114, .	3.3	93

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37	Interseismic Plate coupling and strain partitioning in the Northeastern Caribbean. <i>Geophysical Journal International</i> , 2008, 174, 889-903.	1.0	164
38	Implications of Magma Transfer Between Multiple Reservoirs on Eruption Cycling. <i>Science</i> , 2008, 322, 246-248.	6.0	87
39	Present motion and deformation of the Caribbean plate: Constraints from new GPS geodetic measurements from Honduras and Nicaragua. , 2007, , .		23
40	Unique and remarkable dilatometer measurements of pyroclastic flow-generated tsunamis. <i>Geology</i> , 2007, 35, 25.	2.0	36
41	Prehistoric Stratigraphy of the Soufrière Hills-South Soufrière Hills Volcanic Complex, Montserrat, West Indies. <i>Journal of Geology</i> , 2007, 115, 115-127.	0.7	24
42	Kinematics of the Nicaraguan forearc from GPS geodesy. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	50
43	Unprecedented pressure increase in deep magma reservoir triggered by lava-dome collapse. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	84
44	Ground deformation at Soufrière Hills Volcano, Montserrat during 1998-2000 measured by radar interferometry and GPS. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 152, 157-173.	0.8	46
45	Tectonic strain in plate interiors?. <i>Nature</i> , 2005, 438, E9-E10.	13.7	43
46	GPS results from Puerto Rico and the Virgin Islands: Constraints on tectonic setting and rates of active faulting. , 2005, , .		23
47	Prototype PBO instrumentation of CALIPSO project captures world-record lava dome collapse on Montserrat Volcano. <i>Eos</i> , 2004, 85, 317.	0.1	26
48	Oblique collision in the northeastern Caribbean from GPS measurements and geological observations. <i>Tectonics</i> , 2002, 21, 7-1-7-26.	1.3	184
49	Strain partitioning and fault slip rates in the northeastern Caribbean from GPS measurements. <i>Geophysical Research Letters</i> , 2002, 29, 3-1-3-4.	1.5	91
50	Investigation of biological, chemical and physical processes on and in planetary surfaces by laboratory simulation. <i>Planetary and Space Science</i> , 2002, 50, 821-828.	0.9	20
51	Slicer Laser Altimetry In The Eastern Caribbean. <i>Surveys in Geophysics</i> , 2001, 22, 561-579.	2.1	2
52	Title is missing!. <i>Natural Hazards</i> , 2001, 23, 65-86.	1.6	16
53	GPS estimate of relative motion between the Caribbean and South American plates, and geologic implications for Trinidad and Venezuela. <i>Geology</i> , 2001, 29, 75.	2.0	158
54	GPS geodetic constraints on Caribbean-North America Plate Motion. <i>Geophysical Research Letters</i> , 2000, 27, 437-440.	1.5	288

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55	Neotectonics of Puerto Rico and the Virgin Islands, northeastern Caribbean, from GPS geodesy. <i>Tectonics</i> , 2000, 19, 1021-1037.	1.3	104
56	Northeastern Caribbean topography gets a digital upgrade from laser altimetry. <i>Eos</i> , 1999, 80, 511-511.	0.1	1
57	GPS measurement of surface deformation around Soufriere Hills Volcano, Montserrat from October 1995 to July 1996. <i>Geophysical Research Letters</i> , 1998, 25, 3417-3420.	1.5	58
58	A desktop image processing and photogrammetric method for rapid volcanic hazard mapping: application to air-photo interpretation of Mount Pelée, Martinique. <i>Bulletin of Volcanology</i> , 1996, 58, 401-410.	1.1	3
59	Upper Mantle Oxygen Fugacity and Its Relationship to Metasomatism. <i>Journal of Geology</i> , 1989, 97, 521-536.	0.7	72
60	Magnetite activities across the MgAl ₂ O ₄ -Fe ₃ O ₄ spinel join, with application to thermobarometric estimates of upper mantle oxygen fugacity. <i>Contributions To Mineralogy and Petrology</i> , 1988, 98, 148-162.	1.2	121
61	Upper mantle oxygen fugacity recorded by spinel lherzolites. <i>Nature</i> , 1986, 322, 626-628.	13.7	82
62	Tectonic relationships between forearc-basin strata and the accretionary complex at Bath, Barbados. <i>Bulletin of the Geological Society of America</i> , 1985, 96, 861.	1.6	37
63	Experimental determination of the chromium-aluminum mixing parameter in garnet. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1367-1371.	1.6	16