

Virginie Pinel

List of Publications by Year in descending order

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59
papers

2,205
citations

218677

26
h-index

223800

46
g-index

75
all docs

75
docs citations

75
times ranked

1941
citing authors

#	ARTICLE	IF	CITATIONS
1	Buoyancy Versus Local Stress Field Control on the Velocity of Magma Propagation: Insight From Analog and Numerical Modelling. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	3
2	Impact of climate change on volcanic processes: current understanding and future challenges. <i>Bulletin of Volcanology</i> , 2022, 84, .	3.0	13
3	Unrest at Cayambe Volcano revealed by SAR imagery and seismic activity after the Pedernales subduction earthquake, Ecuador (2016). <i>Journal of Volcanology and Geothermal Research</i> , 2022, 428, 107577.	2.1	2
4	Volume, Effusion Rate, and Lava Transport During the 2021 Fagradalsfjall Eruption: Results From Near Real-time Photogrammetric Monitoring. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	30
5	The 2020 Eruption and Large Lateral Dike Emplacement at Taal Volcano, Philippines: Insights From Satellite Radar Data. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092803.	4.0	19
6	Magma ascent and emplacement below floor fractured craters on the Moon from floor uplift and fracture length. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 312, 106658.	1.9	3
7	What Triggers Caldera Ring-fault Subsidence at Ambrym Volcano? Insights From the 2015 Dike Intrusion and Eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020277.	3.4	11
8	Characterizing the physical properties of gelatin, a classic analog for the brittle elastic crust, insight from numerical modeling. <i>Tectonophysics</i> , 2021, 812, 228901.	2.2	6
9	Magma ascent at floor-fractured craters diagnoses the lithospheric stress state on the Moon. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115889.	4.4	8
10	Unexpected large eruptions from buoyant magma bodies within viscoelastic crust. <i>Nature Communications</i> , 2020, 11, 2403.	12.8	29
11	Combining InSAR and GNSS to Track Magma Transport at Basaltic Volcanoes. <i>Remote Sensing</i> , 2019, 11, 2236.	4.0	6
12	Post-emplacement dynamics of andesitic lava flows at Volc��n de Colima, Mexico, revealed by radar and optical remote sensing data. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 381, 1-15.	2.1	12
13	On the Propagation Path of Magma-filled Dikes and Hydrofractures: The Competition Between External Stress, Internal Pressure, and Crack Length. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2064-2081.	2.5	12
14	Magma Propagation at Piton de la Fournaise From Joint Inversion of InSAR and GNSS. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1361-1387.	3.4	33
15	Absence of Detectable Precursory Deformation and Velocity Variation Before the Large Dome Collapse of July 2015 at Volc��n de Colima, Mexico. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	11
16	Magma Ascent and Eruption Triggered by Cratering on the Moon. <i>Geophysical Research Letters</i> , 2018, 45, 6408-6416.	4.0	19
17	Possible deep connection between volcanic systems evidenced by sequential assimilation of geodetic data. <i>Scientific Reports</i> , 2018, 8, 11702.	3.3	24
18	Temporal evolution of magma flow and degassing conditions during dome growth, insights from 2D numerical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 333-334, 116-133.	2.1	13

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19	A two-step model for dynamical dike propagation in two dimensions: Application to the July 2001 Etna eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1107-1125.	3.4	25
20	Assimilation of Deformation Data for Eruption Forecasting: Potentiality Assessment Based on Synthetic Cases. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	23
21	The Contribution of SAR Data to Volcanology and Subsidence Studies. , 2016, , 221-262.		2
22	Understanding the link between circumferential dikes and eruptive fissures around calderas based on numerical and analog models. <i>Geophysical Research Letters</i> , 2016, 43, 6212-6219.	4.0	29
23	How caldera collapse shapes the shallow emplacement and transfer of magma in active volcanoes. <i>Earth and Planetary Science Letters</i> , 2015, 431, 287-293.	4.4	78
24	Change detection matrix for multitemporal filtering and change analysis of SAR and PolSAR image time series. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 107, 64-76.	11.1	36
25	Mapping the 2010 Merapi pyroclastic deposits using dual-polarization Synthetic Aperture Radar (SAR) data. <i>Remote Sensing of Environment</i> , 2015, 158, 180-192.	11.0	30
26	Cointrusive shear displacement by sill intrusion in a detachment: A numerical approach. <i>Geophysical Research Letters</i> , 2014, 41, 1937-1943.	4.0	27
27	InSAR observations and models of crustal deformation due to a glacial surge in Iceland. <i>Geophysical Journal International</i> , 2014, 198, 1329-1341.	2.4	28
28	Frequency and magnitude of volcanic eruptions controlled by magma injection and buoyancy. <i>Nature Geoscience</i> , 2014, 7, 126-130.	12.9	156
29	Volcanology: Lessons learned from Synthetic Aperture Radar imagery. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 289, 81-113.	2.1	116
30	A two-magma chamber model as a source of deformation at Gr�msv�tn Volcano, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4666-4683.	3.4	56
31	Displacement Measurements. , 2014, , 251-282.		1
32	Large-scale inflation of Tungurahua volcano (Ecuador) revealed by Persistent Scatterers SAR interferometry. <i>Geophysical Research Letters</i> , 2014, 41, 5821-5828.	4.0	23
33	Causes and mechanisms of the 2011-2012 El Hierro (Canary Islands) submarine eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 823-839.	3.4	117
34	Consequences of volcano sector collapse on magmatic storage zones: Insights from numerical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 252, 29-37.	2.1	28
35	Coseismic displacement field and slip distribution of the 2005 Kashmir earthquake from SAR amplitude image correlation and differential interferometry. <i>Geophysical Journal International</i> , 2013, 193, 29-46.	2.4	27
36	Fusion of prior information and multi-scales local frequencies to facilitate D-InSAR phase unwrapping. , 2012, , .		2

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37	Fusion of D-InSAR and sub-pixel image correlation measurements for coseismic displacement field estimation: Application to the Kashmir earthquake (2005). International Journal of Image and Data Fusion, 2012, 3, 71-92.	1.7	11
38	Mexico City Subsidence Measured by InSAR Time Series: Joint Analysis Using PS and SBAS Approaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1312-1326.	4.9	96
39	Fuzzy Uncertainty Representations of Coseismic Displacement Measurements Issued From SAR Imagery. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1278-1286.	4.7	8
40	Fuzzy vs probability uncertainty analysis of seismic displacement measurements issued from D-InSAR and SAR image correlation measurements: Application to the Kashmir earthquake (2005). , 2011, , .		1
41	Conditions for detection of ground deformation induced by conduit flow and evolution. Journal of Geophysical Research, 2011, 116, .	3.3	24
42	Influence of pre-existing volcanic edifice geometry on caldera formation. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	5
43	The challenging retrieval of the displacement field from InSAR data for andesitic stratovolcanoes: Case study of Popocatepetl and Colima Volcano, Mexico. Journal of Volcanology and Geothermal Research, 2011, 200, 49-61.	2.1	77
44	EFIDIR : extraction et fusion d'informations pour la mesure de déplacements par imagerie rad. Traitement Du Signal, 2011, 28, 375-416.	1.3	0
45	Climate effects on volcanism: influence on magmatic systems of loading and unloading from ice mass variations, with examples from Iceland. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2519-2534.	3.4	63
46	On the relationship between cycles of eruptive activity and growth of a volcanic edifice. Journal of Volcanology and Geothermal Research, 2010, 194, 150-164.	2.1	35
47	Influence of surface load variations on eruption likelihood: application to two Icelandic subglacial volcanoes, GrÁmsvÁrtn and Katla. Geophysical Journal International, 2010, , .	2.4	39
48	Assimilation of D-InSAR and sub-pixel image correlation displacement measurements for coseismic fault parameter estimation. , 2010, , .		3
49	A constant influx model for dike propagation: Implications for magma reservoir dynamics. Journal of Geophysical Research, 2010, 115, .	3.3	40
50	Seismic and geodetic insights into magma accumulation at Katla subglacial volcano, Iceland: 1999 to 2005. Journal of Geophysical Research, 2008, 113, .	3.3	30
51	Seismicity and deformation induced by magma accumulation at three basaltic volcanoes. Journal of Geophysical Research, 2008, 113, .	3.3	52
52	Discriminating volcano deformation due to magma movements and variable surface loads: application to Katla subglacial volcano, Iceland. Geophysical Journal International, 2007, 169, 325-338.	2.4	59
53	Icelandic rhythmicity: Annual modulation of land elevation and plate spreading by snow load. Geophysical Research Letters, 2006, 33, .	4.0	68
54	Some consequences of volcanic edifice destruction for eruption conditions. Journal of Volcanology and Geothermal Research, 2005, 145, 68-80.	2.1	59

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55	Caldera formation by magma withdrawal from a reservoir beneath a volcanic edifice. <i>Earth and Planetary Science Letters</i> , 2005, 230, 273-287.	4.4	34
56	Likelihood of basaltic eruptions as a function of volatile content and volcanic edifice size. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 201-217.	2.1	23
57	Magma storage and horizontal dyke injection beneath a volcanic edifice. <i>Earth and Planetary Science Letters</i> , 2004, 221, 245-262.	4.4	143
58	Magma chamber behavior beneath a volcanic edifice. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	100
59	The effect of edifice load on magma ascent beneath a volcano. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1515-1532.	3.4	160