Virginie Pinel

List of Publications by Year in descending order

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VIDCINIE DINEL

#	Article	IF	CITATIONS
1	The effect of edifice load on magma ascent beneath a volcano. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 1515-1532.	3.4	160
2	Frequency and magnitude of volcanic eruptions controlled by magma injection and buoyancy. Nature Geoscience, 2014, 7, 126-130.	12.9	156
3	Magma storage and horizontal dyke injection beneath a volcanic edifice. Earth and Planetary Science Letters, 2004, 221, 245-262.	4.4	143
4	Causes and mechanisms of the 2011–2012 El Hierro (Canary Islands) submarine eruption. Journal of Geophysical Research: Solid Earth, 2013, 118, 823-839.	3.4	117
5	Volcanology: Lessons learned from Synthetic Aperture Radar imagery. Journal of Volcanology and Geothermal Research, 2014, 289, 81-113.	2.1	116
6	Magma chamber behavior beneath a volcanic edifice. Journal of Geophysical Research, 2003, 108, .	3.3	100
7	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
8	How caldera collapse shapes the shallow emplacement and transfer of magma in active volcanoes. Earth and Planetary Science Letters, 2015, 431, 287-293.	4.4	78
9	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
10	Icelandic rhythmics: Annual modulation of land elevation and plate spreading by snow load. Geophysical Research Letters, 2006, 33, .	4.0	68
11	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
12	Some consequences of volcanic edifice destruction for eruption conditions. Journal of Volcanology and Geothermal Research, 2005, 145, 68-80.	2.1	59
13	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
14	A twoâ€magma chamber model as a source of deformation at GrÃmsvötn Volcano, Iceland. Journal of Geophysical Research: Solid Earth, 2014, 119, 4666-4683.	3.4	56
15	Seismicity and deformation induced by magma accumulation at three basaltic volcanoes. Journal of Geophysical Research, 2008, 113, .	3.3	52
16	A constant influx model for dike propagation: Implications for magma reservoir dynamics. Journal of Geophysical Research, 2010, 115, .	3.3	40
17	Influence of surface load variations on eruption likelihood: application to two Icelandic subglacial volcanoes, GrĀmsv¶tn and Katla. Geophysical Journal International, 2010, , .	2.4	39
18	Change detection matrix for multitemporal filtering and change analysis of SAR and PolSAR image time series. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 107, 64-76.	11.1	36

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19	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
20	Caldera formation by magma withdrawal from a reservoir beneath a volcanic edifice. Earth and Planetary Science Letters, 2005, 230, 273-287.	4.4	34
21	Magma Propagation at Piton de la Fournaise From Joint Inversion of InSAR and GNSS. Journal of Geophysical Research: Solid Earth, 2019, 124, 1361-1387.	3.4	33
22	Seismic and geodetic insights into magma accumulation at Katla subglacial volcano, Iceland: 1999 to 2005. Journal of Geophysical Research, 2008, 113, .	3.3	30
23	Mapping the 2010 Merapi pyroclastic deposits using dual-polarization Synthetic Aperture Radar (SAR) data. Remote Sensing of Environment, 2015, 158, 180-192.	11.0	30
24	Volume, Effusion Rate, and Lava Transport During the 2021 Fagradalsfjall Eruption: Results From Near Realâ€Time Photogrammetric Monitoring. Geophysical Research Letters, 2022, 49, .	4.0	30
25	Understanding the link between circumferential dikes and eruptive fissures around calderas based on numerical and analog models. Geophysical Research Letters, 2016, 43, 6212-6219.	4.0	29
26	Unexpected large eruptions from buoyant magma bodies within viscoelastic crust. Nature Communications, 2020, 11, 2403.	12.8	29
27	Consequences of volcano sector collapse on magmatic storage zones: Insights from numerical modeling. Journal of Volcanology and Geothermal Research, 2013, 252, 29-37.	2.1	28
28	InSAR observations and models of crustal deformation due to a glacial surge in Iceland. Geophysical Journal International, 2014, 198, 1329-1341.	2.4	28
29	Coseismic displacement field and slip distribution of the 2005 Kashmir earthquake from SAR amplitude image correlation and differential interferometry. Geophysical Journal International, 2013, 193, 29-46.	2.4	27
30	Cointrusive shear displacement by sill intrusion in a detachment: A numerical approach. Geophysical Research Letters, 2014, 41, 1937-1943.	4.0	27
31	A twoâ€step model for dynamical dike propagation in two dimensions: Application to the July 2001 Etna eruption. Journal of Geophysical Research: Solid Earth, 2017, 122, 1107-1125.	3.4	25
32	Conditions for detection of ground deformation induced by conduit flow and evolution. Journal of Geophysical Research, 2011, 116, .	3.3	24
33	Possible deep connection between volcanic systems evidenced by sequential assimilation of geodetic data. Scientific Reports, 2018, 8, 11702.	3.3	24
34	Likelihood of basaltic eruptions as a function of volatile content and volcanic edifice size. Journal of Volcanology and Geothermal Research, 2004, 137, 201-217.	2.1	23
35	Largeâ€scale inflation of Tungurahua volcano (Ecuador) revealed by Persistent Scatterers SAR interferometry. Geophysical Research Letters, 2014, 41, 5821-5828.	4.0	23
36	Assimilation of Deformation Data for Eruption Forecasting: Potentiality Assessment Based on Synthetic Cases. Frontiers in Earth Science, 2017, 5, .	1.8	23

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37	Magma Ascent and Eruption Triggered by Cratering on the Moon. Geophysical Research Letters, 2018, 45, 6408-6416.	4.0	19
38	The 2020 Eruption and Large Lateral Dike Emplacement at Taal Volcano, Philippines: Insights From Satellite Radar Data. Geophysical Research Letters, 2021, 48, e2021GL092803.	4.0	19
39	Temporal evolution of magma flow and degassing conditions during dome growth, insights from 2D numerical modeling. Journal of Volcanology and Geothermal Research, 2017, 333-334, 116-133.	2.1	13
40	Impact of climate change on volcanic processes: current understanding and future challenges. Bulletin of Volcanology, 2022, 84, .	3.0	13
41	Post-emplacement dynamics of andesitic lava flows at Volcán de Colima, Mexico, revealed by radar and optical remote sensing data. Journal of Volcanology and Geothermal Research, 2019, 381, 1-15.	2.1	12
42	On the Propagation Path of Magmaâ€Filled Dikes and Hydrofractures: The Competition Between External Stress, Internal Pressure, and Crack Length. Geochemistry, Geophysics, Geosystems, 2019, 20, 2064-2081.	2.5	12
43	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
44	Absence of Detectable Precursory Deformation and Velocity Variation Before the Large Dome Collapse of July 2015 at Volcán de Colima, Mexico. Frontiers in Earth Science, 2018, 6, .	1.8	11
45	What Triggers Caldera Ringâ€Fault Subsidence at Ambrym Volcano? Insights From the 2015 Dike Intrusion and Eruption. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020277.	3.4	11
46	Fuzzy Uncertainty Representations of Coseismic Displacement Measurements Issued From SAR Imagery. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1278-1286.	4.7	8
47	Magma ascent at floor-fractured craters diagnoses the lithospheric stress state on the Moon. Earth and Planetary Science Letters, 2020, 530, 115889.	4.4	8
48	Combining InSAR and GNSS to Track Magma Transport at Basaltic Volcanoes. Remote Sensing, 2019, 11, 2236.	4.0	6
49	Characterizing the physical properties of gelatin, a classic analog for the brittle elastic crust, insight from numerical modeling. Tectonophysics, 2021, 812, 228901.	2.2	6
50	Influence of pre-existing volcanic edifice geometry on caldera formation. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	5
51	Assimilation of D-InSAR and sub-pixel image correlation displacement measurements for coseismic fault parameter estimation. , 2010, , .		3
52	Magma ascent and emplacement below floor fractured craters on the Moon from floor uplift and fracture length. Physics of the Earth and Planetary Interiors, 2021, 312, 106658.	1.9	3
53	Buoyancy Versus Local Stress Field Control on the Velocity of Magma Propagation: Insight From Analog and Numerical Modelling. Frontiers in Earth Science, 2022, 10, .	1.8	3
54	Fusion of prior information and multi-scales local frequencies to facilitate D-InSAR phase unwrapping. , 2012, , .		2

#	Article	IF	CITATIONS
55	The Contribution of SAR Data to Volcanology and Subsidence Studies. , 2016, , 221-262.		2
56	Unrest at Cayambe Volcano revealed by SAR imagery and seismic activity after the Pedernales subduction earthquake, Ecuador (2016). Journal of Volcanology and Geothermal Research, 2022, 428, 107577.	2.1	2
57	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
58	Displacement Measurements. , 2014, , 251-282.		1
59	EFIDIR : extraction et fusion d'informations pour la mesure de déplacements par imagerie rad. Traitement Du Signal, 2011, 28, 375-416.	1.3	0