

Jean-Luc Froger

List of Publications by Year in descending order

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41
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304743

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docs citations

41
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale framework for rapid change analysis from SAR image time series: Case study of flood monitoring in the central coast regions of Vietnam. Remote Sensing of Environment, 2022, 269, 112837.	11.0	17
2	22 years of satellite imagery reveal a major destabilization structure at Piton de la Fournaise. Nature Communications, 2022, 13, 2649.	12.8	12
3	Mitigating bias in inversion of InSAR data resulting from radar viewing geometries. Geophysical Journal International, 2021, 227, 483-495.	2.4	2
4	The role of Interferometric Synthetic Aperture Radar in Detecting, Mapping, Monitoring, and Modelling the Volcanic Activity of Piton de la Fournaise, La Réunion: A Review. Remote Sensing, 2020, 12, 1019.	4.0	22
5	Volcanic Eruption Monitoring Using Coherence Change Detection Matrix. , 2020, , .		1
6	Multitemporal InSAR Coherence Change Analysis: Application to Volcanic Eruption Monitoring. , 2019, , .		3
7	Combining InSAR and GNSS to Track Magma Transport at Basaltic Volcanoes. Remote Sensing, 2019, 11, 2236.	4.0	6
8	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
9	Multiscale Change Analysis for SAR Image Time Series: Application to Inundation Detection. , 2019, , .		0
10	Coherence Change Analysis for Multipass Insar Images Based on the Change Detection Matrix. , 2019, , .		5
11	Long-Term Subsidence in Lava Fields at Piton de la Fournaise Volcano Measured by InSAR: New Insights for Interpretation of the Eastern Flank Motion. Remote Sensing, 2018, 10, 597.	4.0	13
12	Effusive crises at Piton de la Fournaise 2014â€“2015: a review of a multi-national response model. Journal of Applied Volcanology, 2017, 6, .	2.0	34
13	Assessing the reliability and consistency of InSAR and GNSS data for retrieving 3D-displacement rapid changes, the example of the 2015 Piton de la Fournaise eruptions. Journal of Volcanology and Geothermal Research, 2017, 344, 106-120.	2.1	24
14	Long-term ground displacement observations using InSAR and GNSS at Piton de la Fournaise volcano between 2009 and 2014. Remote Sensing of Environment, 2017, 194, 230-247.	11.0	33
15	Inversion of coeval shear and normal stress of Piton de la Fournaise flank displacement. Journal of Geophysical Research: Solid Earth, 2016, 121, 7846-7866.	3.4	22
16	Monitoring an effusive eruption at Piton de la Fournaise using radar and thermal infrared remote sensing data: insights into the October 2010 eruption and its lava flows. Geological Society Special Publication, 2016, 426, 533-552.	1.3	22
17	InSAR monitoring using RADARSAT-2 data at Piton de la Fournaise (La Reunion) and Karthala (Grande Tj ETQq1 1 0,784314 rgBT /Overl	1.3	5
18	The Marchâ€“April 2007 Eruptions of Piton de la Fournaise as Recorded by Interferometric Data. Active Volcanoes of the World, 2016, , 271-286.	1.4	5

#	ARTICLE	IF	CITATIONS
19	SAR interferometry time series analysis of ground displacement for Piton de la Fournaise volcano, Reunion Island. , 2015, , .		0
20	Time-dependent displacements during and after the April 2007 eruption of Piton de la Fournaise, revealed by interferometric data. Journal of Volcanology and Geothermal Research, 2015, 296, 55-68.	2.1	47
21	Hydrothermal and magmatic reservoirs at Lazufre volcanic area, revealed by a high-resolution seismic noise tomography. Earth and Planetary Science Letters, 2015, 421, 27-38.	4.4	34
22	Revised interpretation of recent InSAR signals observed at Llama volcano (Chile). Geophysical Research Letters, 2015, 42, 3870-3879.	4.0	35
23	Influence of GNSS Configuration and Map Interpolation Method on INSAR Atmospheric Phase Assessment. , 2015, , .		0
24	Cointrusive shear displacement by sill intrusion in a detachment: A numerical approach. Geophysical Research Letters, 2014, 41, 1937-1943.	4.0	27
25	Persistent uplift of the Lazufre volcanic complex (Central Andes): New insights from PCAIM inversion of InSAR time series and GPS data. Geochemistry, Geophysics, Geosystems, 2014, 15, 3591-3611.	2.5	32
26	Sheared sheet intrusions as mechanism for lateral flank displacement on basaltic volcanoes: Applications to Réunion Island volcanoes. Journal of Geophysical Research: Solid Earth, 2014, 119, 7607-7635.	3.4	15
27	Timing of a large volcanic flank movement at Piton de la Fournaise Volcano using noise-based seismic monitoring and ground deformation measurements. Geophysical Journal International, 2013, 195, 1132-1140.	2.4	43
28	Variability of atmospheric precipitable water in northern Chile: Impacts on interpretation of InSAR data for earthquake modeling. Journal of South American Earth Sciences, 2011, 31, 214-226.	1.4	6
29	Gravity structure of Piton de la Fournaise volcano and inferred mass transfer during the 2007 crisis. Journal of Volcanology and Geothermal Research, 2009, 184, 31-48.	2.1	47
30	Two scales of inflation at Lastarria-Cordon del Azufre volcanic complex, central Andes, revealed from ASAR-ENVISAT interferometric data. Earth and Planetary Science Letters, 2007, 255, 148-163.	4.4	70
31	Insight into ground deformations at Lascar volcano (Chile) from SAR interferometry, photogrammetry and GPS data: Implications on volcano dynamics and future space monitoring. Remote Sensing of Environment, 2006, 100, 307-320.	11.0	47
32	Stratigraphy and age of the Cappadocia ignimbrites, Turkey: reconciling field constraints with paleontologic, radiochronologic, geochemical and paleomagnetic data. Journal of Volcanology and Geothermal Research, 2005, 141, 45-64.	2.1	68
33	The deformation field of the August 2003 eruption at Piton de la Fournaise, Reunion Island, mapped by ASAR interferometry. Geophysical Research Letters, 2004, 31, .	4.0	77
34	Remote sensing of the 1998 mudflow at Casita volcano, Nicaragua. International Journal of Remote Sensing, 2003, 24, 4791-4816.	2.9	22
35	Active spreading and regional extension at Mount Etna imaged by SAR interferometry. Earth and Planetary Science Letters, 2001, 187, 245-258.	4.4	130
36	Volcano-wide fringes in ERS synthetic aperture radar interferograms of Etna (1992-1998): Deformation or tropospheric effect?. Journal of Geophysical Research, 2000, 105, 16391-16402.	3.3	147

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37	Structure of Réunion Island (Indian Ocean) inferred from the interpretation of gravity anomalies. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 88, 131-146.	2.1	64
38	Emplacement of volcanic vents and geodynamics of Central Anatolia, Turkey. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 85, 33-54.	2.1	102
39	Hidden calderas evidenced by multisource geophysical data; example of Cappadocian Calderas, Central Anatolia. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 85, 99-128.	2.1	49
40	Interpretation of anisotropy of magnetic susceptibility fabric of ignimbrites in terms of kinematic and sedimentological mechanisms: An Anatolian case-study. <i>Earth and Planetary Science Letters</i> , 1998, 157, 105-127.	4.4	58
41	Neogene ignimbrites of the Nevsehir plateau (Central Turkey): stratigraphy, distribution and source constraints. <i>Journal of Volcanology and Geothermal Research</i> , 1994, 63, 59-87.	2.1	143