

Raphael Grandin

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,330
citations

279798

23
h-index

243625

44
g-index

65
all docs

65
docs citations

65
times ranked

2648
citing authors

#	ARTICLE	IF	CITATIONS
1	Intense foreshocks and a slow slip event preceded the 2014 Iquique M_w 8.1 earthquake. <i>Science</i> , 2014, 345, 1165-1169.	12.6	328
2	Systematic InSAR tropospheric phase delay corrections from global meteorological reanalysis data. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	269
3	Rupture process of the M_w 7.9 2015 Gorkha earthquake (Nepal): Insights into Himalayan megathrust segmentation. <i>Geophysical Research Letters</i> , 2015, 42, 8373-8382.	4.0	170
4	Long-term growth of the Himalaya inferred from interseismic InSAR measurement. <i>Geology</i> , 2012, 40, 1059-1062.	4.4	136
5	September 2005 Manda Hararo-Dabbahu rifting event, Afar (Ethiopia): Constraints provided by geodetic data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	129
6	Supercycle at the Ecuadorian subduction zone revealed after the 2016 Pedernales earthquake. <i>Nature Geoscience</i> , 2017, 10, 145-149.	12.9	117
7	Three-dimensional displacement field of the 2015 M_w 8.3 Illapel earthquake (Chile) from across- and along-track Sentinel-1 TOPS interferometry. <i>Geophysical Research Letters</i> , 2016, 43, 2552-2561.	4.0	109
8	Sequence of rifting in Afar, Manda Hararo rift, Ethiopia, 2005-2009: Time-space evolution and interactions between dikes from interferometric synthetic aperture radar and static stress change modeling. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	81
9	Seismicity during lateral dike propagation: Insights from new data in the recent Manda Hararo-Dabbahu rifting episode (Afar, Ethiopia). <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	66
10	Birth of a large volcanic edifice offshore Mayotte via lithosphere-scale dyke intrusion. <i>Nature Geoscience</i> , 2021, 14, 787-795.	12.9	59
11	Rupture Process of the M_w 5.8 Pawnee, Oklahoma, Earthquake from Sentinel-1 InSAR and Seismological Data. <i>Seismological Research Letters</i> , 2017, 88, 994-1004.	1.9	56
12	First recorded eruption of Nabro volcano, Eritrea, 2011. <i>Bulletin of Volcanology</i> , 2015, 77, 85.	3.0	54
13	Simulations of strong ground motion in SW Iberia for the 1969 February 28 M_s 7.1 earthquake. <i>Geophysical Journal International</i> , 2007, 171, 807-822.	2.4	51
14	Transient stripping of subducting slabs controls periodic forearc uplift. <i>Nature Communications</i> , 2020, 11, 1823.	12.8	49
15	A comprehensive analysis of the Illapel 2015 M_w 8.3 earthquake from GPS and InSAR data. <i>Earth and Planetary Science Letters</i> , 2017, 469, 123-134.	4.4	45
16	Aeromagnetic, gravity, and Differential Interferometric Synthetic Aperture Radar analyses reveal the causative fault of the 3 April 2017 M_w 6.5 Moiyabana, Botswana, earthquake. <i>Geophysical Research Letters</i> , 2017, 44, 8837-8846.	4.0	38
17	Transient rift opening in response to multiple dike injections in the Manda Hararo rift (Afar, Ethiopia) imaged by time-dependent elastic inversion of interferometric synthetic aperture radar data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
18	Current deformation in Central Afar and triple junction kinematics deduced from GPS and InSAR measurements. <i>Geophysical Journal International</i> , 2017, 208, 936-953.	2.4	33

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19	Seismicity and subsidence following the 2011 Nabro eruption, Eritrea: Insights into the plumbing system of an off-rift volcano. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8267-8282.	3.4	32
20	Elastic thickness control of lateral dyke intrusion at mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 83-95.	4.4	31
21	DEM Corrections Before Unwrapping in a Small Baseline Strategy for InSAR Time Series Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 696-700.	3.1	31
22	From prodigious volcanic degassing to caldera subsidence and quiescence at Ambrym (Vanuatu): the influence of regional tectonics. <i>Scientific Reports</i> , 2019, 9, 18868.	3.3	31
23	Responding to eruptive transitions during the 2020–2021 eruption of La Soufrière volcano, St. Vincent. <i>Nature Communications</i> , 2022, 13, .	12.8	31
24	Interferometric Processing of SLC Sentinel-1 TOPS Data. , 2015, , .		27
25	Seismotectonics of southern Haiti: A new faulting model for the 12 January 2010 $M_w 7.0$ earthquake. <i>Geophysical Research Letters</i> , 2015, 42, 10,273.	4.0	26
26	Magmatic cycles pace tectonic and morphological expression of rifting (Afar depression, Ethiopia). <i>Earth and Planetary Science Letters</i> , 2016, 446, 77-88.	4.4	22
27	Complex Deformation at Shallow Depth During the 30 October 2016 $M_w 6.5$ Norcia Earthquake: Interference Between Tectonic and Gravity Processes?. <i>Tectonics</i> , 2020, 39, e2019TC005596.	2.8	21
28	Inelastic surface deformation during the 2013 $M_w 7.7$ Balochistan, Pakistan, earthquake. <i>Geology</i> , 0, , G37290.1.	4.4	20
29	The Constitución earthquake of 25 March 2012: A large aftershock of the Maule earthquake near the bottom of the seismogenic zone. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 347-357.	4.4	19
30	Surface displacements on faults triggered by slow magma transfers between dyke injections in the 2005–2010 rifting episode at Dabbahu–Manda–Hararo rift (Afar, Ethiopia). <i>Geophysical Journal International</i> , 2016, 204, 399-417.	2.4	19
31	Strain heating in process zones; implications for metamorphism and partial melting in the lithosphere. <i>Earth and Planetary Science Letters</i> , 2014, 394, 216-228.	4.4	18
32	Rapid response to the $M_w 4.9$ earthquake of November 11, 2019 in Le Teil, Lower Rhône Valley, France. <i>Comptes Rendus - Geoscience</i> , 2021, 353, 441-463.	1.2	18
33	Simulations of strong ground motion in SW Iberia for the 1969 February 28 ($M_s = 8.0$) and the 1755 November 1 ($M_w 8.5$) earthquakes - I. Velocity model. <i>Geophysical Journal International</i> , 0, 171, 1144-1161.	2.4	17
34	Retrieving soil surface roughness with the Hapke photometric model: Confrontation with the ground truth. <i>Remote Sensing of Environment</i> , 2019, 225, 1-15.	11.0	16
35	Fault Geometry and Slip Distribution of the 2013 $M_w 7.7$ Balochistan Earthquake From Inversions of SAR and Optical Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018380.	3.4	14
36	Subsidence associated with oil extraction, measured from time series analysis of Sentinel-1 data: case study of the Patos-Marinza oil field, Albania. <i>Solid Earth</i> , 2020, 11, 363-378.	2.8	13

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37	How to turn off a lava lake? A petrological investigation of the 2018 intra-caldera and submarine eruptions of Ambrym volcano. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	13
38	Transient deformation in the Asal-Ghoubbet Rift (Djibouti) since the 1978 diking event: Is deformation controlled by magma supply rates?. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6030-6052.	3.4	12
39	Multifaulting in a tectonic syntaxis revealed by InSAR: The case of the Ziarat earthquake sequence (Pakistan). <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5838-5854.	3.4	11
40	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
41	FLATSIM: The ForM@Ter LArge-Scale Multi-Temporal Sentinel-1 InterferoMetry Service. <i>Remote Sensing</i> , 2021, 13, 3734.	4.0	11
42	Rifting Processes at a Continent-Ocean Transition Rift Revealed by Fault Analysis: Example of Dabbahu-Manda-Hararo Rift (Ethiopia). <i>Tectonics</i> , 2019, 38, 190-214.	2.8	6
43	Reservoir depressurization driven by passive gas emissions at Ambrym volcano. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117512.	4.4	6
44	Dynamics of Episodic Magma Injection and Migration at Yellowstone Caldera: Revisiting the 2004-2009 Episode of Caldera Uplift With InSAR and GPS Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022341.	3.4	5
45	What can be learned from underdetermined geodetic slip inversions: the Parkfield GPS network example. <i>Geophysical Journal International</i> , 2013, 194, 1900-1908.	2.4	4
46	Insights on fault reactivation during the 2019 November 11, Mw 4.9 Le Teil earthquake in southeastern France, from a joint 3-D geological model and InSAR time-series analysis. <i>Geophysical Journal International</i> , 2022, 229, 758-775.	2.4	4
47	Correction to "Transient rift opening in response to multiple dike injections in the Manda Hararo rift (Afar, Ethiopia) imaged by time-dependent elastic inversion of interferometric synthetic aperture radar data". <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	3
48	Dem corrections before unwrapping in a Small Baseline strategy for InSar time series analysis. , 2011, , .		0
49	A Comparative Study of Deramping Techniques for Sentinel-1 Tops in the Context of Interferometry. , 2021, , .		0