

# Pierre Briole

## List of Publications by Year in descending order

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121  
papers

5,375  
citations

81743

39  
h-index

88477

70  
g-index

128  
all docs

128  
docs citations

128  
times ranked

4007  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deflation of Mount Etna monitored by spaceborne radar interferometry. <i>Nature</i> , 1995, 375, 567-570.	13.7	538
2	Active deformation of the Corinth rift, Greece: Results from repeated Global Positioning System surveys between 1990 and 1995. <i>Journal of Geophysical Research</i> , 2000, 105, 25605-25625.	3.3	252
3	Title is missing!. <i>Journal of Seismology</i> , 1997, 1, 131-150.	0.6	205
4	Time series analysis of Mexico City subsidence constrained by radar interferometry. <i>Journal of Applied Geophysics</i> , 2009, 69, 1-15.	0.9	194
5	Crustal strain in central Greece from repeated GPS measurements in the interval 1989-1997. <i>Geophysical Journal International</i> , 1998, 135, 195-214.	1.0	188
6	Tropospheric corrections of SAR interferograms with strong topography. Application to Etna. <i>Geophysical Research Letters</i> , 1998, 25, 2849-2852.	1.5	162
7	Ground motion measurement in the Lake Mead area, Nevada, by differential synthetic aperture radar interferometry time series analysis: Probing the lithosphere rheological structure. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	154
8	Analysis of eleven years of deformation measured by GPS in the Corinth Rift Laboratory area. <i>Comptes Rendus - Geoscience</i> , 2004, 336, 301-311.	0.4	152
9	Volcano-wide fringes in ERS synthetic aperture radar interferograms of Etna (1992-1998): Deformation or tropospheric effect?. <i>Journal of Geophysical Research</i> , 2000, 105, 16391-16402.	3.3	147
10	A new velocity field for Greece: Implications for the kinematics and dynamics of the Aegean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	144
11	Seismicity, deformation and seismic hazard in the western rift of Corinth: New insights from the Corinth Rift Laboratory (CRL). <i>Tectonophysics</i> , 2006, 426, 7-30.	0.9	134
12	Active spreading and regional extension at Mount Etna imaged by SAR interferometry. <i>Earth and Planetary Science Letters</i> , 2001, 187, 245-258.	1.8	130
13	Monitoring landslide displacements with the Geocube wireless network of low-cost GPS. <i>Engineering Geology</i> , 2015, 195, 111-121.	2.9	125
14	The MW=8.1 Antofagasta (North Chile) Earthquake of July 30, 1995: First results from teleseismic and geodetic data. <i>Geophysical Research Letters</i> , 1996, 23, 917-920.	1.5	101
15	Bridging onshore and offshore present-day kinematics of central and eastern Mediterranean: Implications for crustal dynamics and mantle flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	94
16	The September 26, 1997 Colfiorito, Italy, earthquakes: Modeled coseismic surface displacement from SAR interferometry and GPS. <i>Geophysical Research Letters</i> , 1999, 26, 883-886.	1.5	93
17	Contemporary, Holocene, and Quaternary deformation of the Asal Rift, Djibouti: Implications for the mechanics of slow spreading ridges. <i>Journal of Geophysical Research</i> , 1991, 96, 21789-21806.	3.3	89
18	Slip distribution of the 2003 Boumerdes-Zemmouri earthquake, Algeria, from teleseismic, GPS, and coastal uplift data. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	84

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19	Post-eruptive deformation associated with the 1986-87 and 1989 lava flows of Etna detected by radar interferometry. <i>Geophysical Research Letters</i> , 1997, 24, 37-40.	1.5	83
20	Geodetic investigation of the 13 May 1995 Kozani-Grevena (Greece) Earthquake. <i>Geophysical Research Letters</i> , 1997, 24, 707-710.	1.5	80
21	The 2018â€“2019 seismo-volcanic crisis east of Mayotte, Comoros islands: seismicity and ground deformation markers of an exceptional submarine eruption. <i>Geophysical Journal International</i> , 2020, 223, 22-44.	1.0	80
22	The deformation field of the August 2003 eruption at Piton de la Fournaise, Reunion Island, mapped by ASAR interferometry. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	77
23	The 1995 Grevena (northern Greece) Earthquake: Fault model constrained with tectonic observations and SAR interferometry. <i>Geophysical Research Letters</i> , 1996, 23, 2677-2680.	1.5	69
24	Accurate measurements of tropospheric effects in volcanic areas from SAR interferometry data: application to Sakurajima volcano (Japan). <i>Earth and Planetary Science Letters</i> , 2003, 213, 299-310.	1.8	66
25	Effects of superficial layers on coseismic displacements for a dip-slip fault and geophysical implications. <i>Geophysical Journal International</i> , 1999, 137, 149-158.	1.0	63
26	Title is missing!. <i>Journal of Seismology</i> , 2000, 4, 479-499.	0.6	60
27	Displacement field and fault model for the September 7, 1999 Athens Earthquake inferred from ERS2 Satellite radar interferometry. <i>Geophysical Research Letters</i> , 2000, 27, 3989-3992.	1.5	56
28	Coseismic deformation of the May 21st, 2003, Mw= 6.8 Boumerdes earthquake, Algeria, from GPS measurements. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	54
29	Analysis of satellite and in situ ground deformation data integrated by the SISTEM approach: The April 3, 2010 earthquake along the Pernicana fault (Mt. Etna - Italy) case study. <i>Earth and Planetary Science Letters</i> , 2011, 312, 327-336.	1.8	52
30	The role of smectites in the electrical conductivity of active hydrothermal systems: electrical properties of core samples from Krafla volcano, Iceland. <i>Geophysical Journal International</i> , 2018, 215, 1558-1582.	1.0	51
31	Continuous monitoring of distal gas emanations at Vulcano, southern Italy. <i>Bulletin of Volcanology</i> , 1992, 54, 147-155.	1.1	49
32	Subsidence of Campi Flegrei (Italy) detected by SAR interferometry. <i>Geophysical Research Letters</i> , 1999, 26, 2303-2306.	1.5	46
33	SRTM 3â€³ DEM (versions 1, 2, 3, 4) validation by means of extensive kinematic GPS measurements: a case study from North Greece. <i>International Journal of Remote Sensing</i> , 2010, 31, 6205-6222.	1.3	46
34	Coseismic deformation, field observations and seismic fault of the 17 November 2015 M = 6.5, Lefkada Island, Greece earthquake. <i>Tectonophysics</i> , 2016, 687, 210-222.	0.9	46
35	GPS network monitors the Western Alps' deformation over a five-year period: 1993-1998. <i>Journal of Geodesy</i> , 2002, 76, 63-76.	1.6	44
36	Pits, rifts and slumps: the summit structure of Piton de la Fournaise. <i>Bulletin of Volcanology</i> , 2007, 69, 741-756.	1.1	43

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37	Validation and comparison of different techniques for the derivation of digital elevation models and volcanic monitoring (Vulcano Island, Italy). <i>International Journal of Remote Sensing</i> , 2002, 23, 4783-4800.	1.3	42
38	ROBOVOLC: a robot for volcano exploration result of first test campaign. <i>Industrial Robot</i> , 2003, 30, 231-242.	1.2	41
39	A Multitemporal Method for Correction of Tropospheric Effects in Differential SAR Interferometry: Application to the Gulf of Corinth Earthquake. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1605-1615.	2.7	41
40	Digital photogrammetry and kinematic GPS applied to the monitoring of Vulcano Island, Aeolian Arc, Italy. <i>Geophysical Journal International</i> , 2000, 142, 801-811.	1.0	40
41	The July 20, 2017 M6.6 Kos Earthquake: Seismic and Geodetic Evidence for an Active North-Dipping Normal Fault at the Western End of the Gulf of Gökova (SE Aegean Sea). <i>Pure and Applied Geophysics</i> , 2019, 176, 4177-4211.	0.8	40
42	The GPS velocity field of the Aegean. New observations, contribution of the earthquakes, crustal blocks model. <i>Geophysical Journal International</i> , 2021, 226, 468-492.	1.0	38
43	Mineralogy and chemistry of solid aerosols emitted from Mount Etna.. <i>Geochemical Journal</i> , 1995, 29, 163-173.	0.5	37
44	Large scale ground deformation of Etna observed by GPS between 1994 and 2001. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	35
45	The impact of Mount Etna sulfur emissions on the atmospheric composition and aerosol properties in the central Mediterranean: A statistical analysis over the period 2000–2013 based on observations and Lagrangian modelling. <i>Atmospheric Environment</i> , 2017, 148, 77-88.	1.9	35
46	Shallow afterslip following the 2003 May 21, $M_w = 6.9$ Boumerdes earthquake, Algeria. <i>Geophysical Journal International</i> , 2008, 172, 155-166.	1.0	34
47	Synergistic use of Lagrangian dispersion and radiative transfer modelling with satellite and surface remote sensing measurements for the investigation of volcanic plumes: the Mount Etna eruption of 25–27 October 2013. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6841-6861.	1.9	31
48	Transition from collision to subduction in Western Greece: the Katouna–Stamna active fault system and regional kinematics. <i>International Journal of Earth Sciences</i> , 2017, 106, 967-989.	0.9	30
49	Ground Deformation and Seismic Fault Model of the M6.4 Durrës (Albania) Nov. 26, 2019 Earthquake, Based on GNSS/INSAR Observations. <i>Geosciences (Switzerland)</i> , 2020, 10, 210.	1.0	29
50	Co-seismic and post-seismic deformation, field observations and fault model of the 30 October 2020 $M_w = 7.0$ Samos earthquake, Aegean Sea. <i>Acta Geophysica</i> , 2021, 69, 999-1024.	1.0	28
51	Sounding the plume of the 18 August 2000 eruption of Miyakejima volcano (Japan) using GPS. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	27
52	The 25 October 2018 $M_w = 6.7$ Zakynthos earthquake (Ionian Sea, Greece): A low-angle fault model based on GNSS data, relocated seismicity, small tsunami and implications for the seismic hazard in the west Hellenic Arc. <i>Journal of Geodynamics</i> , 2020, 137, 101731.	0.7	27
53	The Kozani-Grevena (Greece) Earthquake of May 13, 1995, $M_s = 6.6$ . Preliminary Results of a Field Multidisciplinary Survey. <i>Seismological Research Letters</i> , 1995, 66, 61-70.	0.8	26
54	Coseismic Displacements from Moderate-Size Earthquakes Mapped by Sentinel-1 Differential Interferometry: The Case of February 2017 Gulpınar Earthquake Sequence (Biga Peninsula, Turkey). <i>Remote Sensing</i> , 2018, 10, 1089.	1.8	26

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55	New constraints from seismology and geodesy on the Mw = 6.4 2008 Movri (Greece) earthquake: evidence for a growing strike-slip fault system. <i>Geophysical Journal International</i> , 2014, 198, 1373-1386.	1.0	24
56	The seismic sequence of January–February 2014 at Cephalonia Island (Greece): constraints from SAR interferometry and GPS. <i>Geophysical Journal International</i> , 2015, 203, 1528-1540.	1.0	24
57	Fault responsible for Samos earthquake identified. <i>Temblor</i> , 0, , .	0.0	24
58	Spatiotemporal evolution of surface creep in the Parkfield region of the San Andreas Fault (1993–2004) from synthetic aperture radar. <i>Earth and Planetary Science Letters</i> , 2011, 308, 141-150.	1.8	23
59	Surface displacement of the Mw 7 Machaze earthquake (Mozambique): Complementary use of multiband InSAR and radar amplitude image correlation with elastic modelling. <i>Remote Sensing of Environment</i> , 2010, 114, 2211-2218.	4.6	22
60	1985–1999 gravity field variations across the Asal Rift: insights on vertical movements and mass transfer. <i>Earth and Planetary Science Letters</i> , 2003, 208, 41-49.	1.8	21
61	Twelve years of ground deformation studies on Mt. Etna volcano based on GPS surveys. <i>Geophysical Monograph Series</i> , 2004, , 321-341.	0.1	21
62	Multi-method monitoring of Glacier d'Argentière dynamics. <i>Annals of Glaciology</i> , 2015, 56, 118-128.	2.8	21
63	GPS constraints on deformation in northern Central America from 1999 to 2017, Part 1 – Time-dependent modelling of large regional earthquakes and their post-seismic effects. <i>Geophysical Journal International</i> , 2018, 214, 2177-2194.	1.0	20
64	The 2018 Mw 6.8 Zakynthos (Ionian Sea, Greece) earthquake: seismic source and local tsunami characterization. <i>Geophysical Journal International</i> , 2020, 221, 1043-1054.	1.0	20
65	Ground deformation at Nisyros volcano (Greece) detected by ERS-2 SAR differential interferometry. <i>International Journal of Remote Sensing</i> , 2003, 24, 183-188.	1.3	19
66	Deformation studies at Furnas and Sete Cidades Volcanoes (São Miguel Island, Azores). Velocities and further investigations. <i>Geophysical Journal International</i> , 2006, 166, 952-956.	1.0	18
67	The source motion of 2003 Bam (Iran) earthquake constrained by satellite and ground-based geodetic data. <i>Geophysical Journal International</i> , 2007, 169, 849-865.	1.0	18
68	Near-source high-rate GPS, strong motion and InSAR observations to image the 2015 Lefkada (Greece) Earthquake rupture history. <i>Scientific Reports</i> , 2017, 7, 10358.	1.6	18
69	GPS constraints on deformation in northern Central America from 1999 to 2017, Part 2: Block rotations and fault slip rates, fault locking and distributed deformation. <i>Geophysical Journal International</i> , 2019, 218, 729-754.	1.0	18
70	The Mw = 5.6 Kanallaki Earthquake of 21 March 2020 in West Epirus, Greece: Reverse Fault Model from InSAR Data and Seismotectonic Implications for Apulia-Eurasia Collision. <i>Geosciences (Switzerland)</i> , 2020, 10, 454.	1.0	18
71	Rapid response to the M <sub>w</sub> 4.9 earthquake of November 11, 2019 in Le Teil, Lower Rhône Valley, France. <i>Comptes Rendus - Geoscience</i> , 2021, 353, 441-463.	0.4	18
72	The Western Gulf of Corinth (Greece) 2020–2021 Seismic Crisis and Cascading Events: First Results from the Corinth Rift Laboratory Network. <i>The Seismic Record</i> , 2021, 1, 85-95.	1.3	18

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73	Domino-style earthquakes along blind normal faults in Northern Thessaly (Greece): kinematic evidence from field observations, seismology, SAR interferometry and GNSS. Bulletin of the Geological Society of Greece, 0, 58, 37.	0.2	18
74	Deformation between 1989 and 1997 at Piton de la Fournaise volcano retrieved from correlation of panchromatic airborne images. Geophysical Journal International, 2007, 169, 357-364.	1.0	17
75	Fault plane modelling of the 2003 August 14 Lefkada Island (Greece) earthquake based on the analysis of ENVISAT SAR interferograms. Tectonophysics, 2016, 693, 47-65.	0.9	17
76	Sentinel optical and SAR data highlights multi-segment faulting during the 2018 Palu-Sulawesi earthquake (Mw 7.5). Scientific Reports, 2020, 10, 9103.	1.6	17
77	First epoch geodetic GPS measurements across the Afar Plate Boundary Zone. Geophysical Research Letters, 1993, 20, 1899-1902.	1.5	16
78	Small-scale volcanic aerosols variability, processes and direct radiative impact at Mount Etna during the EPL-RADIO campaigns. Scientific Reports, 2020, 10, 15224.	1.6	16
79	Seismic and electrical anisotropy in the Mornos Delta, Gulf of Corinth, Greece, and its relationship with GPS strain measurements. Geophysical Research Letters, 1997, 24, 2227-2230.	1.5	15
80	Volcanic plume above Mount St. Helens detected with GPS. Eos, 2005, 86, 277.	0.1	14
81	The El Asnam 1980 October 10 inland earthquake: a new hypothesis of tsunami generation. Geophysical Journal International, 2011, 185, 1135-1146.	1.0	13
82	Ground Deformations in the Corinth Rift, Greece, Investigated Through the Means of SAR Multitemporal Interferometry. Geochemistry, Geophysics, Geosystems, 2018, 19, 4836-4857.	1.0	13
83	Potential volcanological applications of the DORIS system. A geodetic study of the Socorro Island (Mexico) coordinate time-series. Geophysical Journal International, 2009, 178, 581-590.	1.0	12
84	Petrinja earthquake moved crust 10 feet. Temblor, 0, , .	0.0	11
85	Seasonal variations in amplitudes and resonance frequencies of the HVSAR amplification peaks linked to groundwater. Geophysical Journal International, 2021, 226, 1-13.	1.0	11
86	3D displacement maps of the 2009â€fLâ€™Aquila earthquake (Italy) by applying the SISTEM method to GPS and DInSAR data. Terra Nova, 2013, 25, 79-85.	0.9	10
87	Real-time deformation monitoring by a wireless network of low-cost GPS. Journal of Applied Geodesy, 2014, 8, .	0.6	10
88	The Arkalochori Mw = 5.9 Earthquake of 27 September 2021 Inside the Heraklion Basin: A Shallow, Blind Rupture Event Highlighting the Orthogonal Extension of Central Crete. Geosciences (Switzerland), 2022, 12, 220.	1.0	10
89	On the radiative forcing of volcanic plumes: modelling the impact of Mount Etna in the Mediterranean. Annals of Geophysics, 2015, 58, .	0.5	8
90	Coseismic Fault Rupture Detection and Slip Measurement by ASAR Precise Correlation Using Coherence Maximization: Application to a Northâ€™South Blind Fault in the Vicinity of Bam (Iran). IEEE Geoscience and Remote Sensing Letters, 2006, 3, 187-191.	1.4	7

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91	Deformation estimation of an earth dam and its relation with local earthquakes, by exploiting multitemporal synthetic aperture radar interferometry: Mornos dam case (Central Greece). <i>Journal of Applied Remote Sensing</i> , 2016, 10, 026010.	0.6	7
92	A novel methodology to determine volcanic aerosols optical properties in the UV and NIR and Å...ngstrÅfm parameters using Sun photometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9803-9815.	1.2	7
93	A New Degassing Model to Infer Magma Dynamics from Radioactive Disequilibria in Volcanic Plumes. <i>Geosciences (Switzerland)</i> , 2018, 8, 27.	1.0	7
94	Revisiting the shallow M<sub>w</sub>5.1 Lorca earthquake (southeastern Spain) using C-band InSAR and elastic dislocation modelling. <i>Remote Sensing Letters</i> , 2013, 4, 863-872.	0.6	6
95	Geodetic slip solutions for the Mw=7.4 Champerico (Guatemala) earthquake of 2012 November 7 and its postseismic deformation. <i>Geophysical Journal International</i> , 2015, 201, 856-868.	1.0	6
96	Tropospheric Correction of Sentinel-1 Synthetic Aperture Radar Interferograms Using a High-Resolution Weather Model Validated by GNSS Measurements. <i>Remote Sensing</i> , 2021, 13, 2258.	1.8	6
97	Measurements of Ground Movement on Mount Etna, Sicily: A Systematic Plan to Record Different Temporal and Spatial Components of Ground Movement Associated with Active Volcanism. <i>IAVCEI Proceedings in Volcanology</i> , 1992, , 120-129.	0.4	6
98	ASSEM: array of sensors for long term seabed monitoring of geohazards. , 0, , .		5
99	Use of GNSS Tropospheric Delay Measurements for the Parameterization and Validation of WRF High-Resolution Re-Analysis over the Western Gulf of Corinth, Greece: The PaTrop Experiment. <i>Remote Sensing</i> , 2021, 13, 1898.	1.8	5
100	Global Positioning System network monitors the western Alps. <i>Eos</i> , 1995, 76, 489-489.	0.1	4
101	Reply [to "Comment on "Geodetic investigation of the 13 May Kozani-Grevena (Greece) Earthquake" by Clarke et al.]. <i>Geophysical Research Letters</i> , 1998, 25, 131-133.	1.5	4
102	Potential of ground based radar for the monitoring of deformation of volcanoes. <i>Geophysical Research Letters</i> , 2001, 28, 851-854.	1.5	4
103	The July 20, 2017 Mw=6.6 Bodrum-Kos Earthquake, Southeast Aegean Sea: Contribution of the Tsunami Modeling to the Assessment of the Fault Parameters. <i>Pure and Applied Geophysics</i> , 2021, 178, 4865-4889.	0.8	4
104	ASSEM: a new concept of regional observatory. , 2003, , .		3
105	A method for minimising of low frequency and unwrapping artefacts from interferometric calculations. <i>International Journal of Remote Sensing</i> , 2006, 27, 3079-3086.	1.3	3
106	Using Kinematic GNSS Data to Assess the Accuracy and Precision of the TanDEM-X DEM Resampled at 1-m Resolution Over the Western Corinth Gulf, Greece. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 3016-3025.	2.3	3
107	An interdisciplinary approach to studying seismic hazard throughout Greece. <i>International Association of Geodesy Symposia</i> , 2000, , 279-284.	0.2	3
108	The EtnaPlumeLab (EPL) research cluster: advance the understanding of Mt. Etna plume, from source characterisation to downwind impact. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	3

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109	CRUSTAL DEFORMATIONS FROM SPARCE GEODETIC DATA. Survey Review, 2002, 36, 367-379.	0.7	2
110	Correction of local and global tropospheric effects on differential SAR interferograms for the study of earthquake phenomena. , 0, , .		2
111	Spatio-temporal evolution of the deformation around the Rio-Patras fault (Greece) observed by synthetic aperture radar interferometry from 1993 to 2017. International Journal of Remote Sensing, 2019, 40, 6365-6382.	1.3	2
112	Water Vapor Tomography of the Lower Atmosphere from Multiparametric Inversion: the Mt. Etna Volcano Test Case. Frontiers in Earth Science, 2021, 8, .	0.8	2
113	COSEISMIC DEFORMATION AND SEISMIC FAULT OF THE 17 NOVEMBER 2015 M=6.5 EARTHQUAKE, LEFKADA ISLAND. Bulletin of the Geological Society of Greece, 2017, 50, 491.	0.2	2
114	Inflation of the Aira Caldera (Japan) detected over Kokubu urban area using SAR interferometry ERS data. EEarth, 2007, 2, 17-25.	0.8	2
115	Inflation/deflation sequence on the Nisyros active volcano, Greece, during 1995-2000 issued from SAR differential interferometry. , 2003, 4886, 315.		1
116	ASSEM: a new concept of observatory applied to long term seabed monitoring of geohazards. , 2003, , .		1
117	ASSEM: Array of Sensors for long term SEabed Monitoring of geohazards. Elsevier Oceanography Series, 2003, , 349-352.	0.1	1
118	Common issues between cabled and non cabled observatories in ASSEM project. , 2005, , .		1
119	Correction to "Large scale ground deformation of Etna observed by GPS between 1994 and 2001" Geophysical Research Letters, 2006, 33, .	1.5	1
120	Phase unwrapping for DEM generation as an inverse problem. , 0, , .		0
121	Monitoring slow ground movements around Tunis City by different SAR interferometric measures. , 2009, , .		0