

# 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	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. <i>Geosciences (Switzerland)</i> , 2022, 12, 220.	1.0	10
2	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
3	Seasonal variations in amplitudes and resonance frequencies of the HVSR amplification peaks linked to groundwater. <i>Geophysical Journal International</i> , 2021, 226, 1-13.	1.0	11
4	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
5	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
6	Water Vapor Tomography of the Lower Atmosphere from Multiparametric Inversion: the Mt. Etna Volcano Test Case. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	2
7	Co-seismic and post-seismic deformation, field observations and fault model of the 30 October 2020 Mw 7.0 Samos earthquake, Aegean Sea. <i>Acta Geophysica</i> , 2021, 69, 999-1024.	1.0	28
8	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
9	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
10	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
11	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
12	The 2018–2019 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
13	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
14	Small-scale volcanic aerosols variability, processes and direct radiative impact at Mount Etna during the EPL-RADIO campaigns. <i>Scientific Reports</i> , 2020, 10, 15224.	1.6	16
15	Sentinel optical and SAR data highlights multi-segment faulting during the 2018 Palu-Sulawesi earthquake (Mw 7.5). <i>Scientific Reports</i> , 2020, 10, 9103.	1.6	17
16	Ground Deformation and Seismic Fault Model of the M6.4 Durres (Albania) Nov. 26, 2019 Earthquake, Based on GNSS/INSAR Observations. <i>Geosciences (Switzerland)</i> , 2020, 10, 210.	1.0	29
17	The 25 October 2018 Mw = 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
18	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

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19	Spatio-temporal evolution of the deformation around the Rio-Patras fault (Greece) observed by synthetic aperture radar interferometry from 1993 to 2017. <i>International Journal of Remote Sensing</i> , 2019, 40, 6365-6382.	1.3	2
20	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
21	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
22	Coseismic Displacements from Moderate-Size Earthquakes Mapped by Sentinel-1 Differential Interferometry: The Case of February 2017 Gulpinar Earthquake Sequence (Biga Peninsula, Turkey). <i>Remote Sensing</i> , 2018, 10, 1089.	1.8	26
23	Ground Deformations in the Corinth Rift, Greece, Investigated Through the Means of SAR Multitemporal Interferometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4836-4857.	1.0	13
24	A New Degassing Model to Infer Magma Dynamics from Radioactive Disequilibria in Volcanic Plumes. <i>Geosciences (Switzerland)</i> , 2018, 8, 27.	1.0	7
25	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
26	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
27	A novel methodology to determine volcanic aerosols optical properties in the UV and NIR and Ångström parameters using Sun photometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9803-9815.	1.2	7
28	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
29	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
30	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
31	COSEISMIC DEFORMATION AND SEISMIC FAULT OF THE 17 NOVEMBER 2015 M=6.5 EARTHQUAKE, LEFKADA ISLAND. <i>Bulletin of the Geological Society of Greece</i> , 2017, 50, 491.	0.2	2
32	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
33	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
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	Fault plane modelling of the 2003 August 14 Lefkada Island (Greece) earthquake based on the analysis of ENVISAT SAR interferograms. <i>Tectonophysics</i> , 2016, 693, 47-65.	0.9	17
36	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

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37	Multi-method monitoring of Glacier d'Argentière dynamics. <i>Annals of Glaciology</i> , 2015, 56, 118-128.	2.8	21
38	Monitoring landslide displacements with the Geocube wireless network of low-cost GPS. <i>Engineering Geology</i> , 2015, 195, 111-121.	2.9	125
39	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
40	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
41	On the radiative forcing of volcanic plumes: modelling the impact of Mount Etna in the Mediterranean. <i>Annals of Geophysics</i> , 2015, 58, .	0.5	8
42	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
43	Real-time deformation monitoring by a wireless network of low-cost GPS. <i>Journal of Applied Geodesy</i> , 2014, 8, .	0.6	10
44	Revisiting the shallow Mw=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
45	3D displacement maps of the 2009 L'Aquila earthquake (Italy) by applying the SISTEM method to GPS and DInSAR data. <i>Terra Nova</i> , 2013, 25, 79-85.	0.9	10
46	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
47	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
48	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
49	The El Asnam 1980 October 10 inland earthquake: a new hypothesis of tsunami generation. <i>Geophysical Journal International</i> , 2011, 185, 1135-1146.	1.0	13
50	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
51	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
52	SRTM 30m 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
53	Monitoring slow ground movements around Tunis City by different SAR interferometric measures. , 2009, , .		0
54	Potential volcanological applications of the DORIS system. A geodetic study of the Socorro Island (Mexico) coordinate time-series. <i>Geophysical Journal International</i> , 2009, 178, 581-590.	1.0	12

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55	Time series analysis of Mexico City subsidence constrained by radar interferometry. <i>Journal of Applied Geophysics</i> , 2009, 69, 1-15.	0.9	194
56	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
57	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
58	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
59	Deformation between 1989 and 1997 at Piton de la Fournaise volcano retrieved from correlation of panchromatic airborne images. <i>Geophysical Journal International</i> , 2007, 169, 357-364.	1.0	17
60	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
61	Pits, rifts and slumps: the summit structure of Piton de la Fournaise. <i>Bulletin of Volcanology</i> , 2007, 69, 741-756.	1.1	43
62	Inflation of the Aira Caldera (Japan) detected over Kokubu urban area using SAR interferometry ERS data. <i>Earth</i> , 2007, 2, 17-25.	0.8	2
63	Coseismic Fault Rupture Detection and Slip Measurement by ASAR Precise Correlation Using Coherence Maximization: Application to a North-South Blind Fault in the Vicinity of Bam (Iran). <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006, 3, 187-191.	1.4	7
64	Large scale ground deformation of Etna observed by GPS between 1994 and 2001. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	35
65	Correction to "Large scale ground deformation of Etna observed by GPS between 1994 and 2001". <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	1
66	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
67	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
68	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
69	Common issues between cabled and non cabled observatories in ASSEM project. , 2005, , .		1
70	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
71	Volcanic plume above Mount St. Helens detected with GPS. <i>Eos</i> , 2005, 86, 277.	0.1	14
72	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

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73	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
74	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
75	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
76	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
77	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
78	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
79	ASSEM: a new concept of regional observatory. , 2003, , .		3
80	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
81	Inflation/deflation sequence on the Nisyros active volcano, Greece, during 1995-2000 issued from SAR differential interferometry. , 2003, 4886, 315.		1
82	ASSEM: a new concept of observatory applied to long term seabed monitoring of geohazards. , 2003, , .		1
83	ROBOVOLC: a robot for volcano exploration result of first test campaign. <i>Industrial Robot</i> , 2003, 30, 231-242.	1.2	41
84	ASSEM: Array of Sensors for long term SEabed Monitoring of geohazards. <i>Elsevier Oceanography Series</i> , 2003, , 349-352.	0.1	1
85	CRUSTAL DEFORMATIONS FROM SPARCE GEODETIC DATA. <i>Survey Review</i> , 2002, 36, 367-379.	0.7	2
86	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
87	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
88	Potential of ground based radar for the monitoring of deformation of volcanoes. <i>Geophysical Research Letters</i> , 2001, 28, 851-854.	1.5	4
89	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
90	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

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91	Title is missing!. Journal of Seismology, 2000, 4, 479-499.	0.6	60
92	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
93	Active deformation of the Corinth rift, Greece: Results from repeated Global Positioning System surveys between 1990 and 1995. Journal of Geophysical Research, 2000, 105, 25605-25625.	3.3	252
94	Displacement field and fault model for the September 7, 1999 Athens Earthquake inferred from ERS2 Satellite radar interferometry. Geophysical Research Letters, 2000, 27, 3989-3992.	1.5	56
95	An interdisciplinary approach to studying seismic hazard throughout Greece. International Association of Geodesy Symposia, 2000, , 279-284.	0.2	3
96	Effects of superficial layers on coseismic displacements for a dip-slip fault and geophysical implications. Geophysical Journal International, 1999, 137, 149-158.	1.0	63
97	The September 26, 1997 Colfiorito, Italy, earthquakes: Modeled coseismic surface displacement from SAR interferometry and GPS. Geophysical Research Letters, 1999, 26, 883-886.	1.5	93
98	Subsidence of Campi Flegrei (Italy) detected by SAR interferometry. Geophysical Research Letters, 1999, 26, 2303-2306.	1.5	46
99	Crustal strain in central Greece from repeated GPS measurements in the interval 1989-1997. Geophysical Journal International, 1998, 135, 195-214.	1.0	188
100	Reply [to "Comment on "Geodetic investigation of the 13 May Kozani-Grevena (Greece) Earthquake" by Clarke et al.]. Geophysical Research Letters, 1998, 25, 131-133.	1.5	4
101	Tropospheric corrections of SAR interferograms with strong topography. Application to Etna. Geophysical Research Letters, 1998, 25, 2849-2852.	1.5	162
102	Geodetic investigation of the 13 May 1995 Kozani-Grevena (Greece) Earthquake. Geophysical Research Letters, 1997, 24, 707-710.	1.5	80
103	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
104	Post-eruptive deformation associated with the 1986-87 and 1989 lava flows of Etna detected by radar interferometry. Geophysical Research Letters, 1997, 24, 37-40.	1.5	83
105	Title is missing!. Journal of Seismology, 1997, 1, 131-150.	0.6	205
106	The MW=8.1 Antofagasta (North Chile) Earthquake of July 30, 1995: First results from teleseismic and geodetic data. Geophysical Research Letters, 1996, 23, 917-920.	1.5	101
107	The 1995 Grevena (northern Greece) Earthquake: Fault model constrained with tectonic observations and SAR interferometry. Geophysical Research Letters, 1996, 23, 2677-2680.	1.5	69
108	Mineralogy and chemistry of solid aerosols emitted from Mount Etna.. Geochemical Journal, 1995, 29, 163-173.	0.5	37

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109	Deflation of Mount Etna monitored by spaceborne radar interferometry. <i>Nature</i> , 1995, 375, 567-570.	13.7	538
110	The Kozani-Grevena (Greece) Earthquake of May 13, 1995, Ms = 6.6. Preliminary Results of a Field Multidisciplinary Survey. <i>Seismological Research Letters</i> , 1995, 66, 61-70.	0.8	26
111	Global Positioning System network monitors the western Alps. <i>Eos</i> , 1995, 76, 489-489.	0.1	4
112	First epoch geodetic GPS measurements across the Afar Plate Boundary Zone. <i>Geophysical Research Letters</i> , 1993, 20, 1899-1902.	1.5	16
113	Continuous monitoring of distal gas emanations at Vulcano, southern Italy. <i>Bulletin of Volcanology</i> , 1992, 54, 147-155.	1.1	49
114	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
115	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
116	ASSEM: array of sensors for long term seabed monitoring of geohazards. , 0, , .		5
117	Correction of local and global tropospheric effects on differential SAR interferograms for the study of earthquake phenomena. , 0, , .		2
118	Phase unwrapping for DEM generation as an inverse problem. , 0, , .		0
119	Petrinja earthquake moved crust 10 feet. <i>Temblor</i> , 0, , .	0.0	11
120	Domino-style earthquakes along blind normal faults in Northern Thessaly (Greece): kinematic evidence from field observations, seismology, SAR interferometry and GNSS. <i>Bulletin of the Geological Society of Greece</i> , 0, 58, 37.	0.2	18
121	Fault responsible for Samos earthquake identified. <i>Temblor</i> , 0, , .	0.0	24