

Christian Bignami

List of Publications by Year in descending order

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107
papers

2,444
citations

257450

24
h-index

223800

46
g-index

114
all docs

114
docs citations

114
times ranked

2944
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional numerical simulation of the interseismic and coseismic phases associated with the 6 April 2009, Mw 6.3 Aquila earthquake (Central Italy). <i>Tectonophysics</i> , 2021, 798, 228685.	2.2	8
2	Numerical analysis of interseismic, coseismic and post-seismic phases for normal and reverse faulting earthquakes in Italy. <i>Geophysical Journal International</i> , 2021, 225, 627-645.	2.4	8
3	Relative Sea-Level Rise Scenario for 2100 along the Coast of South Eastern Sicily (Italy) by InSAR Data, Satellite Images and High-Resolution Topography. <i>Remote Sensing</i> , 2021, 13, 1108.	4.0	26
4	Earthquake Source Investigation of the Kanallaki, March 2020 Sequence (North-Western Greece) Based on Seismic and Geodetic Data. <i>Remote Sensing</i> , 2021, 13, 1752.	4.0	2
5	Multi-polarization C-band SAR imagery to quantify damage levels due to the Central Italy earthquake. <i>International Journal of Remote Sensing</i> , 2021, 42, 5969-5984.	2.9	9
6	The epicentral fingerprint of earthquakes marks the coseismically activated crustal volume. <i>Earth-Science Reviews</i> , 2021, 218, 103667.	9.1	12
7	Analysis of a large seismically induced mass movement after the December 2018 Etna volcano (southern Italy) seismic swarm. <i>Remote Sensing of Environment</i> , 2021, 263, 112524.	11.0	9
8	Earthquake Damage Assessment Using C-Band PolSAR Measurements and Ground Surveys. , 2021, , .		0
9	Geohazards Monitoring and Assessment Using Multi-Source Earth Observation Techniques. <i>Remote Sensing</i> , 2021, 13, 4269.	4.0	9
10	Lithological control on multiple surface ruptures during the 2016–2017 Amatrice-Norcia seismic sequence. <i>Journal of Geodynamics</i> , 2020, 134, 101676.	1.6	9
11	Precise Topographic Model Assisted Slope Displacement Retrieval from Small Baseline Subsets Results: Case Study over a High and Steep Mining Slope. <i>Sensors</i> , 2020, 20, 6674.	3.8	3
12	Minimum Redundancy Array–A Baseline Optimization Strategy for Urban SAR Tomography. <i>Remote Sensing</i> , 2020, 12, 3100.	4.0	8
13	Synergic Use of Multi-Sensor Satellite Data for Volcanic Hazards Monitoring: The Fogo (Cape Verde) 2014–2015 Effusive Eruption. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	14
14	Are normal fault earthquakes due to elastic rebound or gravitational collapse?. <i>Annals of Geophysics</i> , 2020, 63, .	1.0	11
15	Heterogeneous Behavior of the Campotosto Normal Fault (Central Italy) Imaged by InSAR GPS and Strong-Motion Data: Insights from the 18 January 2017 Events. <i>Remote Sensing</i> , 2019, 11, 1482.	4.0	21
16	SAR and Optical Data Comparison for Detecting Co-Seismic Slip and Induced Phenomena during the 2018 Mw 7.5 Sulawesi Earthquake. <i>Sensors</i> , 2019, 19, 3976.	3.8	9
17	Volume unbalance on the 2016 Amatrice - Norcia (Central Italy) seismic sequence and insights on normal fault earthquake mechanism. <i>Scientific Reports</i> , 2019, 9, 4250.	3.3	29
18	The Co-Seismic Slip Induced By the 2018 Sulawesi Earthquake on Palu Bay Imaged By Sar and Optical Data. , 2019, , .		0

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19	Multi-Hazard Analysis of Etna 2018 Eruption by Sar Imaging. , 2019, , .		1
20	Aftershock Rate and Pore Fluid Diffusion: Insights From the Amatriceâ€Vissoâ€Norcia (Italy) 2016 Seismic Sequence. Journal of Geophysical Research: Solid Earth, 2019, 124, 995-1015.	3.4	13
21	Triple Collocation to Assess Classification Accuracy Without a Ground Truth in Case of Earthquake Damage Assessment. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 485-496.	6.3	9
22	Earthquake damage mapping: An overall assessment of ground surveys and VHR image change detection after L'Aquila 2009 earthquake. Remote Sensing of Environment, 2018, 210, 166-178.	11.0	51
23	Atmospheric Slant Delay from SAR Interferometry, GNSS and Numerical Weather Prediction Model: A Comparison Study in View of a Geosynchronous SAR Mission. , 2018, , .		0
24	Multi-sensor monitoring of Ciudad Guzman (Mexico) ground subsidence. Procedia Computer Science, 2018, 138, 362-365.	2.0	2
25	Exploitation of Copernicus Sentinels Data for Sensing Fire-Disturbed Vegetated Areas. , 2018, , .		5
26	Ground Deformation and Source Geometry of the 30 October 2016 Mw 6.5 Norcia Earthquake (Central Italy) Tj ETQq0 0 0 rgBT /Overlock 10 Remote Sensing, 2018, 10, 1901.	4.0	25
27	The Intraplate 2016 Mw 6.0 Australia Earthquake Studied by Insar Data. , 2018, , .		1
28	Using Multi-Frequency Insar Data to Constrain Ground Deformation of Ischia Earthquake. , 2018, , .		3
29	Step-like displacements of a deep seated gravitational slope deformation observed during the 2016â€2017 seismic events in Central Italy. Engineering Geology, 2018, 246, 337-348.	6.3	13
30	The Causative Fault of the 2016 Mwp 6.1 Petermann Ranges Intraplate Earthquake (Central Australia) Retrieved by C- and L-Band InSAR Data. Remote Sensing, 2018, 10, 1311.	4.0	21
31	The Relationship between InSAR Coseismic Deformation and Earthquake-Induced Landslides Associated with the 2017 Mw 3.9 Ischia (Italy) Earthquake. Geosciences (Switzerland), 2018, 8, 303.	2.2	18
32	InSAR Monitoring of Italian Coastline Revealing Natural and Anthropogenic Ground Deformation Phenomena and Future Perspectives. Sustainability, 2018, 10, 3152.	3.2	18
33	The Campotosto Seismic Gap in Between the 2009 and 2016â€2017 Seismic Sequences of Central Italy and the Role of Inherited Lithospheric Faults in Regional Seismotectonic Settings. Tectonics, 2018, 37, 2425-2445.	2.8	37
34	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. Remote Sensing, 2018, 10, 929.	4.0	18
35	Exploitation of SAR data to detect burned areas in the Sila mountain area (southern Italy). , 2018, , .		0
36	Earthquake damage mapping by using remotely sensed data: the Haiti case study. Journal of Applied Remote Sensing, 2017, 11, 016042.	1.3	16

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37	Aftershocks, groundwater changes and postseismic ground displacements related to pore pressure gradients: Insights from the 2012 Emilia-Romagna earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5622-5638.	3.4	18
38	Using multi-band InSAR data for detecting local deformation phenomena induced by the 2016-2017 Central Italy seismic sequence. <i>Remote Sensing of Environment</i> , 2017, 201, 234-242.	11.0	27
39	New insights into earthquake precursors from InSAR. <i>Scientific Reports</i> , 2017, 7, 12035.	3.3	46
40	An improved data integration algorithm to constrain the 3D displacement field induced by fast deformation phenomena tested on the Napa Valley earthquake. <i>Computers and Geosciences</i> , 2017, 109, 206-215.	4.2	8
41	Geodetic model of the 2016 Central Italy earthquake sequence inferred from InSAR and GPS data. <i>Geophysical Research Letters</i> , 2017, 44, 6778-6787.	4.0	162
42	Lava emplacement mapping with SAR and optical satellite data. , 2017, , .		0
43	Did Anthropogenic Activities Trigger the 3 April 2017 Mw 6.5 Botswana Earthquake?. <i>Remote Sensing</i> , 2017, 9, 1028.	4.0	23
44	A New Damage Assessment Method by Means of Neural Network and Multi-Sensor Satellite Data. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 781.	2.5	8
45	An innovative procedure for monitoring the change in soil seismic response by InSAR data: application to the Mexico City subsidence. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 53, 146-158.	2.8	14
46	Uncovering deformation processes from surface displacements. <i>Journal of Geodynamics</i> , 2016, 102, 58-82.	1.6	13
47	The Interferometric Use of Radar Sensors for the Urban Monitoring of Structural Vibrations and Surface Displacements. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 3761-3776.	4.9	19
48	A multisensor approach for the 2016 Amatrice earthquake damage assessment. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	2
49	The 24 August 2016 Amatrice earthquake: macroseismic survey in the damage area and EMS intensity assessment. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	18
50	Source identification for situational awareness of August 24th 2016 Central Italy event. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	7
51	Advanced procedures for volcanic and seismic monitoring. <i>International Journal of Safety and Security Engineering</i> , 2016, 6, 114-121.	1.0	0
52	Gravity-driven postseismic deformation following the Mw 6.3 2009 L'Aquila (Italy) earthquake. <i>Scientific Reports</i> , 2015, 5, 16558.	3.3	12
53	Land subsidence, Ground Fissures and Buried Faults: InSAR Monitoring of Ciudad Guzmán (Jalisco), Tj ETQq1 1 0.784314 rgBT /Overl	4.0	44
54	Identification of building double-bounces feature in very high resolution SAR data for earthquake damage mapping. , 2015, , .		4

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55	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.	2.4	24
56	Detecting earthquake damage in urban area: application to COSMO-SkyMed imagery of L'Aquila earthquake. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
57	High-precision levelling, DInSAR and geomorphological effects in the Emilia 2012 epicentral area. <i>Geomorphology</i> , 2015, 235, 106-117.	2.6	15
58	Coseismic liquefaction phenomenon analysis by COSMO-SkyMed: 2012 Emilia (Italy) earthquake. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 39, 65-78.	2.8	24
59	Earthquake Damage Assessment from VHR Data: Case Studies. , 2015, , 630-637.		0
60	Classification of VHR optical data for land use change analysis by scale object selection (SOS) algorithm. , 2014, , .		2
61	Combined use of ground-based systems for Cultural Heritage conservation monitoring. , 2014, , .		17
62	A possible breached relay ramp causing the 2013 Lunigiana earthquake (Northern Italy). , 2014, , .		0
63	A Multidisciplinary Study of the DPRK Nuclear Tests. <i>Pure and Applied Geophysics</i> , 2014, 171, 341-359.	1.9	10
64	Multisensor Satellite Monitoring of the 2011 Puyehue-Cordon Caulle Eruption. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2786-2796.	4.9	31
65	X- and C-Band SAR Surface Displacement for the 2013 Lunigiana Earthquake (Northern Italy): A Breached Relay Ramp?. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2746-2753.	4.9	14
66	Detecting sparse earthquake damages in high density urban settlements by VHR SAR data. , 2014, , .		0
67	Monitoring Soil Moisture in an Agricultural Test Site Using SAR Data: Design and Test of a Pre-Operational Procedure. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 1199-1210.	4.9	34
68	20 years of active deformation on volcano caldera: Joint analysis of InSAR and AInSAR techniques. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 23, 279-287.	2.8	27
69	Transponder calibration of the Envisat RA-2 altimeter Ku band sigma naught. <i>Advances in Space Research</i> , 2013, 51, 1478-1491.	2.6	8
70	Synthetic Aperture Radar (SAR) Doppler Anomaly Detected During the 2010 Merapi (Java, Indonesia) Eruption. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1319-1323.	3.1	5
71	Pyroclastic density current volume estimation after the 2010 Merapi volcano eruption using X-band SAR. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 236-243.	2.1	37
72	New results on post-seismic deformations over L'Aquila, Italy, by high resolution PSP SAR interferometry. , 2013, , .		2

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73	Monthly migration of a tectonic seismic swarm detected by DInSAR: southwest Peloponnese, Greece. <i>Geophysical Journal International</i> , 2013, 194, 1302-1309.	2.4	27
74	Coseismic slip distribution for the <i>M_w</i> 9 2011 Tohoku earthquake derived from 3D FE modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3837-3847.	3.4	38
75	A method for multi-hazard mapping in poorly known volcanic areas: an example from Kanlaon (Philippines). <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 1929-1943.	3.6	27
76	Volcanic product detection after the 2010 Merapi eruption by using VHR SAR data. , 2012, , .		2
77	Joint inversion of the 2011 Tohoku (Japan) earthquake from dinsar and GPS data. , 2012, , .		0
78	The 2010 explosive eruption of Java's Merapi volcanoâ€™A â€™100-yearâ€™™ event. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 241-242, 121-135.	2.1	336
79	DInSAR techniques for studying the October 23, 2011, Van earthquake (Turkey), and its relationship with neighboring structures. , 2012, , .		0
80	Transponder calibration of the ENVISAT RA-2 altimeter sigma naught. , 2012, , .		4
81	Comment on "Surface deformation caused by April 6th 2009 earthquake in L'Aquila (Italy): A comparative analysis from ENVISAT ASAR, ALOS PALSAR and ASTER" by M.A. Gouadarzi, T. Woldai, V.A. Tolpekin. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 579-581.	2.8	0
82	Coseismic deformation pattern of the Emilia 2012 seismic sequence imaged by Radarsat-1 interferometry. <i>Annals of Geophysics</i> , 2012, 55, .	1.0	19
83	Objects textural features sensitivity for earthquake damage mapping. , 2011, , .		6
84	Did the September 2010 (Darfield) earthquake trigger the February 2011 (Christchurch) event?. <i>Scientific Reports</i> , 2011, 1, 98.	3.3	24
85	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.	4.4	52
86	Neural Networks for automatic seismic source analysis from DInSAR data. , 2011, , .		1
87	Earthquake Damages Rapid Mapping by Satellite Remote Sensing Data: L'Aquila April 6th, 2009 Event. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2011, 4, 935-943.	4.9	56
88	X-, C-, and L-Band DInSAR Investigation of the April 6, 2009, Abruzzi Earthquake. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 49-53.	3.1	42
89	Towards an operational procedure to map soil moisture using SAR: Results of a seven-year-experiment over an agricultural area. , 2011, , .		2
90	The May 12, 2008, (Mw 7.9) Sichuan Earthquake (China): Multiframe ALOS-PALSAR DInSAR Analysis of Coseismic Deformation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2010, 7, 266-270.	3.1	32

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91	Soil moisture estimation over vegetated terrains using multitemporal remote sensing data. Remote Sensing of Environment, 2010, 114, 440-448.	11.0	107
92	Automatic damage detection Using pulse-coupled neural networks For the 2009 Italian earthquake. , 2010, , .		6
93	Microwave Signature of the Greenland Ice Sheet at Ku- and S-Bands. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 322-326.	3.1	0
94	Finite fault inversion of DInSAR coseismic displacement of the 2009 L'Aquila earthquake (central Italy). Geophysical Research Letters, 2009, 36, .	4.0	258
95	High resolution mapping of soil moisture by SAR: Data integration and exploitation of prior information. , 2009, , .		2
96	Ground Deformation Imagery of the May Sichuan Earthquake. Eos, 2008, 89, 341-342.	0.1	15
97	Quickbird Panchromatic Images for Mapping Damage at Building Scale Caused by the 2003 Bam Earthquake. , 2008, , .		5
98	Uplift and subsidence due to the 26 December 2004 Indonesian earthquake detected by SAR data. International Journal of Remote Sensing, 2008, 29, 3891-3910.	2.9	54
99	The SIGRIS Project: A Remote Sensing System for Seismic Risk Management. , 2008, , .		5
100	Retrieval and analysis of land surface microwave emissivity from SSM/I data. European Journal of Remote Sensing, 2008, , 15-25.	0.2	1
101	SAR and optical remote sensing for urban damage detection and mapping: case studies. , 2007, , .		3
102	Exploiting Physical and Topographic Information within a Fuzzy Scheme to Map Flooded Area by SAR. , 2006, , .		1
103	The Calibration of the Envisat Radar Altimeter Receiver by a Passive Technique. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 3297-3307.	6.3	10
104	Satellite radar and optical remote sensing for earthquake damage detection: results from different case studies. International Journal of Remote Sensing, 2006, 27, 4433-4447.	2.9	177
105	Preliminary results on soil moisture mapping in alessandria area (northern Italy) using Envisat A-SAR. , 0, , .		0
106	Comparing and combining the capability of detecting earthquake damages in urban areas using SAR and optical data. , 0, , .		6
107	Cosesismic liquefaction phenomena from DInSAR after the May 20, 2012 Emilia earthquake. Rendiconti Online Societa Geologica Italiana, 0, 35, 5-9.	0.3	1