

Marie-Pierre Doin

List of Publications by Year in descending order

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61
papers

4,308
citations

136740

32
h-index

149479

56
g-index

66
all docs

66
docs citations

66
times ranked

3442
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulations of subduction zones. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 149, 133-153.	0.7	427
2	Corrections of stratified tropospheric delays in SAR interferometry: Validation with global atmospheric models. <i>Journal of Applied Geophysics</i> , 2009, 69, 35-50.	0.9	314
3	Systematic InSAR tropospheric phase delay corrections from global meteorological reanalysis data. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	269
4	A comparison of methods for the modeling of thermochemical convection. <i>Journal of Geophysical Research</i> , 1997, 102, 22477-22495.	3.3	239
5	Improving InSAR geodesy using Global Atmospheric Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2324-2341.	1.4	220
6	Time series analysis of Mexico City subsidence constrained by radar interferometry. <i>Journal of Applied Geophysics</i> , 2009, 69, 1-15.	0.9	194
7	Mantle convection and stability of depleted and undepleted continental lithosphere. <i>Journal of Geophysical Research</i> , 1997, 102, 2771-2787.	3.3	176
8	Measurement of interseismic strain across the Haiyuan fault (Gansu, China), by InSAR. <i>Earth and Planetary Science Letters</i> , 2008, 275, 246-257.	1.8	163
9	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
10	Shallow creep on the Haiyuan Fault (Gansu, China) revealed by SAR Interferometry. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	152
11	Long-term growth of the Himalaya inferred from interseismic InSAR measurement. <i>Geology</i> , 2012, 40, 1059-1062.	2.0	136
12	Heat transport in stagnant lid convection with temperature- and pressure-dependent Newtonian or non-Newtonian rheology. <i>Journal of Geophysical Research</i> , 1999, 104, 12759-12777.	3.3	129
13	Large-scale InSAR monitoring of permafrost freeze-thaw cycles on the Tibetan Plateau. <i>Geophysical Research Letters</i> , 2017, 44, 901-909.	1.5	113
14	Spatio-temporal evolution of aseismic slip along the Haiyuan fault, China: Implications for fault frictional properties. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 23-33.	1.8	110
15	New Radar Interferometric Time Series Analysis Toolbox Released. <i>Eos</i> , 2013, 94, 69-70.	0.1	106
16	Mexico City Subsidence Measured by InSAR Time Series: Joint Analysis Using PS and SBAS Approaches. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1312-1326.	2.3	96
17	Subduction initiation and continental crust recycling: the roles of rheology and eclogitization. <i>Tectonophysics</i> , 2001, 342, 163-191.	0.9	87
18	Numerical simulations of the mantle lithosphere delamination. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86

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19	Geoid anomalies and the structure of continental and oceanic lithospheres. <i>Journal of Geophysical Research</i> , 1996, 101, 16119-16135.	3.3	76
20	Slab surface temperature in subduction zones: Influence of the interplate decoupling depth and upper plate thinning processes. <i>Earth and Planetary Science Letters</i> , 2007, 255, 324-338.	1.8	69
21	Unsupervised Spatiotemporal Mining of Satellite Image Time Series Using Grouped Frequent Sequential Patterns. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1417-1430.	2.7	66
22	Inversion of deformation fields time-series from optical images, and application to the long term kinematics of slow-moving landslides in Peru. <i>Remote Sensing of Environment</i> , 2018, 210, 144-158.	4.6	65
23	Along-strike variations of the partitioning of convergence across the Haiyuan fault system detected by InSAR. <i>Geophysical Journal International</i> , 2016, 205, 536-547.	1.0	61
24	Convective destabilization of a thickened continental lithosphere. <i>Earth and Planetary Science Letters</i> , 2002, 202, 303-320.	1.8	60
25	Overriding plate thinning in subduction zones: Localized convection induced by slab dehydration. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	58
26	InSAR measurement of the deformation around Siling Co Lake: Inferences on the lower crust viscosity in central Tibet. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5290-5310.	1.4	55
27	Numerical simulations of the cooling of an oceanic lithosphere above a convective mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 125, 45-64.	0.7	52
28	Backarc strain in subduction zones: Statistical observations versus numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	52
29	Ice loss in the Northeastern Tibetan Plateau permafrost as seen by 16 yr of ESA SAR missions. <i>Earth and Planetary Science Letters</i> , 2020, 545, 116404.	1.8	45
30	Strain Partitioning and Present-Day Fault Kinematics in NW Tibet From Envisat SAR Interferometry. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2462-2483.	1.4	44
31	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
32	Flattening of the oceanic topography and geoid: thermal versus dynamic origin. <i>Geophysical Journal International</i> , 2000, 143, 582-594.	1.0	33
33	Rising of the lowest place on Earth due to Dead Sea water level drop: Evidence from SAR interferometry and GPS. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
34	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.	1.4	31
35	Independent Component Analysis and Parametric Approach for Source Separation in InSAR Time Series at Regional Scale: Application to the 2017-2018 Slow Slip Event in Guerrero (Mexico). <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018187.	1.4	31
36	Constraining the kinematics of metropolitan Los Angeles faults with a slip-partitioning model. <i>Geophysical Research Letters</i> , 2016, 43, 11192-11201.	1.5	29

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37	Plume-lithosphere interaction beneath a fast moving plate. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	28
38	From a mountain belt collapse to a sedimentary basin development: 2-D thermal model based on inversion of stratigraphic data in the Paris Basin. <i>Tectonophysics</i> , 2004, 386, 1-27.	0.9	25
39	InSAR observations of lake loading at Yangzhuoyong Lake, Tibet: Constraints on crustal elasticity. <i>Earth and Planetary Science Letters</i> , 2016, 449, 240-245.	1.8	17
40	3D GNSS Velocity Field Sheds Light on the Deformation Mechanisms in Europe: Effects of the Vertical Crustal Motion on the Distribution of Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	16
41	Three-dimensional numerical simulations of mantle flow beneath mid-ocean ridges. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
42	Onset of small-scale instabilities at the base of the lithosphere: scaling laws and role of pre-existing lithospheric structures. <i>Geophysical Journal International</i> , 2004, 160, 345-357.	1.0	14
43	Influence of the precollisional stage on subduction dynamics and the buried crust thermal state: Insights from numerical simulations. <i>Tectonophysics</i> , 2007, 441, 27-45.	0.9	14
44	Interseismic deformation of the Shahroud fault system (NE Iran) from spaceborne radar interferometry measurements. <i>Geophysical Research Letters</i> , 2015, 42, 5753-5761.	1.5	13
45	Localized Afterslip at Geometrical Complexities Revealed by InSAR After the 2016 Central Italy Seismic Sequence. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019065.	1.4	13
46	Terrain deformation measurements from optical satellite imagery: The MPIC-OPT processing services for geohazards monitoring. <i>Remote Sensing of Environment</i> , 2022, 274, 112949.	4.6	13
47	FLATSIM: The ForM@Ter LArge-Scale Multi-Temporal Sentinel-1 InterferoMetry Service. <i>Remote Sensing</i> , 2021, 13, 3734.	1.8	11
48	Landslides induced by the 2017 Mw7.3 Sarpol Zahab earthquake (Iran). <i>Landslides</i> , 2022, 19, 603-619.	2.7	10
49	Interseismic coupling along the Mexican subduction zone seen by InSAR and GNSS. <i>Earth and Planetary Science Letters</i> , 2022, 586, 117534.	1.8	9
50	The variety of subaerial active salt deformations in the Kuqa fold-thrust belt (China) constrained by InSAR. <i>Earth and Planetary Science Letters</i> , 2016, 450, 83-95.	1.8	8
51	Sparsity Optimization Method for Slow-Moving Landslides Detection in Satellite Image Time-Series. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2133-2144.	2.7	8
52	A Simple Phase Unwrapping Errors Correction Algorithm Based on Phase Closure Analysis. , 2018, , .		5
53	On the interpretation of linear relationships between seafloor subsidence rate and the height of the ridge. <i>Geophysical Journal International</i> , 2001, 146, 691-698.	1.0	4
54	What can be learned from underdetermined geodetic slip inversions: the Parkfield GPS network example. <i>Geophysical Journal International</i> , 2013, 194, 1900-1908.	1.0	4

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55	Ranking evolution maps for Satellite Image Time Series exploration: application to crustal deformation and environmental monitoring. <i>Data Mining and Knowledge Discovery</i> , 2019, 33, 131-167.	2.4	4
56	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
57	Extraction of frequent grouped sequential patterns from Satellite Image Time Series. , 2010, , .		2
58	Spatiotemporal mining of ENVISAT SAR interferogram time series over the Haiyuan fault in China. , 2011, , .		2
59	Terrain Deformation Measurements from Optical Satellite Imagery: On-Line Processing Services for Geohazards Monitoring. , 2021, , .		2
60	Unrest at Cayambe Volcano revealed by SAR imagery and seismic activity after the Pedernales subduction earthquake, Ecuador (2016). <i>Journal of Volcanology and Geothermal Research</i> , 2022, 428, 107577.	0.8	2
61	Iterative summarization of satellite image time series. , 2014, , .		1