Marie-Pierre Doin

List of Publications by Year
in descending order

61	4,308	136950 32	149698 56
papers	citations	h-index	g-index

66	66	66	3442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical simulations of subduction zones. Physics of the Earth and Planetary Interiors, 2005, 149, 133-153.	1.9	427
2	Corrections of stratified tropospheric delays in SAR interferometry: Validation with global atmospheric models. Journal of Applied Geophysics, 2009, 69, 35-50.	2.1	314
3	Systematic InSAR tropospheric phase delay corrections from global meteorological reanalysis data. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	269
4	A comparison of methods for the modeling of thermochemical convection. Journal of Geophysical Research, 1997, 102, 22477-22495.	3.3	239
5	Improving InSAR geodesy using Global Atmospheric Models. Journal of Geophysical Research: Solid Earth, 2014, 119, 2324-2341.	3.4	220
6	Time series analysis of Mexico City subsidence constrained by radar interferometry. Journal of Applied Geophysics, 2009, 69, 1-15.	2.1	194
7	Mantle convection and stability of depleted and undepleted continental lithosphere. Journal of Geophysical Research, 1997, 102, 2771-2787.	3.3	176
8	Measurement of interseismic strain across the Haiyuan fault (Gansu, China), by InSAR. Earth and Planetary Science Letters, 2008, 275, 246-257.	4.4	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. Journal of Geophysical Research, 2007, 112, .	3.3	154
10	Shallow creep on the Haiyuan Fault (Gansu, China) revealed by SAR Interferometry. Journal of Geophysical Research, 2012, 117, .	3.3	152
11	Long-term growth of the Himalaya inferred from interseismic InSAR measurement. Geology, 2012, 40, 1059-1062.	4.4	136
12	Heat transport in stagnant lid convection with temperature- and pressure-dependent Newtonian or non-Newtonian rheology. Journal of Geophysical Research, 1999, 104, 12759-12777.	3.3	129
13	Largeâ€scale InSAR monitoring of permafrost freezeâ€thaw cycles on the Tibetan Plateau. Geophysical Research Letters, 2017, 44, 901-909.	4.0	113
14	Spatio-temporal evolution of aseismic slip along the Haiyuan fault, China: Implications for fault frictional properties. Earth and Planetary Science Letters, 2013, 377-378, 23-33.	4.4	110
15	New Radar Interferometric Time Series Analysis Toolbox Released. Eos, 2013, 94, 69-70.	0.1	106
16	Mexico City Subsidence Measured by InSAR Time Series: Joint Analysis Using PS and SBAS Approaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1312-1326.	4.9	96
17	Subduction initiation and continental crust recycling: the roles of rheology and eclogitization. Tectonophysics, 2001, 342, 163-191.	2.2	87
18	Numerical simulations of the mantle lithosphere delamination. Journal of Geophysical Research, 2004, 109, .	3.3	86

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19	Geoid anomalies and the structure of continental and oceanic lithospheres. Journal of Geophysical Research, 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. Earth and Planetary Science Letters, 2007, 255, 324-338.	4.4	69
21	Unsupervised Spatiotemporal Mining of Satellite Image Time Series Using Grouped Frequent Sequential Patterns. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1417-1430.	6.3	66
22	Inversion of deformation fields time-series from optical images, and application to the long term kinematics of slow-moving landslides in Peru. Remote Sensing of Environment, 2018, 210, 144-158.	11.0	65
23	Along-strike variations of the partitioning of convergence across the Haiyuan fault system detected by InSAR. Geophysical Journal International, 2016, 205, 536-547.	2.4	61
24	Convective destabilization of a thickened continental lithosphere. Earth and Planetary Science Letters, 2002, 202, 303-320.	4.4	60
25	Overriding plate thinning in subduction zones: Localized convection induced by slab dehydration. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	58
26	InSAR measurement of the deformation around Siling Co Lake: Inferences on the lower crust viscosity in central Tibet. Journal of Geophysical Research: Solid Earth, 2015, 120, 5290-5310.	3.4	55
27	Numerical simulations of the cooling of an oceanic lithosphere above a convective mantle. Physics of the Earth and Planetary Interiors, 2001, 125, 45-64.	1.9	52
28	Backâ€arc strain in subduction zones: Statistical observations versus numerical modeling. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	52
29	Ice loss in the Northeastern Tibetan Plateau permafrost as seen by 16 yr of ESA SAR missions. Earth and Planetary Science Letters, 2020, 545, 116404.	4.4	45
30	Strain Partitioning and Presentâ€Day Fault Kinematics in NW Tibet From Envisat SAR Interferometry. Journal of Geophysical Research: Solid Earth, 2018, 123, 2462-2483.	3.4	44
31	Transient rift opening in response to multiple dike injections in the Manda Hararo rift (Afar, Ethiopia) imaged by timeâ€dependent elastic inversion of interferometric synthetic aperture radar data. Journal of Geophysical Research, 2010, 115, .	3.3	34
32	Flattening of the oceanic topography and geoid: thermal versus dynamic origin. Geophysical Journal International, 2000, 143, 582-594.	2.4	33
33	Rising of the lowest place on Earth due to Dead Sea waterâ€level drop: Evidence from SAR interferometry and GPS. Journal of Geophysical Research, 2012, 117, .	3.3	31
34	DEM Corrections Before Unwrapping in a Small Baseline Strategy for InSAR Time Series Analysis. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 696-700.	3.1	31
35	Independent Component Analysis and Parametric Approach for Source Separation in InSAR Time Series at Regional Scale: Application to the 2017â€“2018 Slow Slip Event in Guerrero (Mexico). Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018187.	3.4	31
36	Constraining the kinematics of metropolitan Los Angeles faults with a slipâ€partitioning model. Geophysical Research Letters, 2016, 43, 11192-11201.	4.0	29

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37	Plume-lithosphere interaction beneath a fast moving plate. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	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. Tectonophysics, 2004, 386, 1-27.	2.2	25
39	InSAR observations of lake loading at Yangzhuoyong Lake, Tibet: Constraints on crustal elasticity. Earth and Planetary Science Letters, 2016, 449, 240-245.	4.4	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. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	16
41	Three-dimensional numerical simulations of mantle flow beneath mid-ocean ridges. Journal of Geophysical Research, 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. Geophysical Journal International, 2004, 160, 345-357.	2.4	14
43	Influence of the precollisional stage on subduction dynamics and the buried crust thermal state: Insights from numerical simulations. Tectonophysics, 2007, 441, 27-45.	2.2	14
44	Interseismic deformation of the Shahroud fault system (NE Iran) from spaceâ€borne radar interferometry measurements. Geophysical Research Letters, 2015, 42, 5753-5761.	4.0	13
45	Localized Afterslip at Geometrical Complexities Revealed by InSAR After the 2016 Central Italy Seismic Sequence. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019065.	3.4	13
46	Terrain deformation measurements from optical satellite imagery: The MPIC-OPT processing services for geohazards monitoring. Remote Sensing of Environment, 2022, 274, 112949.	11.0	13
47	FLATSIM: The ForM@Ter LArge-Scale Multi-Temporal Sentinel-1 InterferoMetry Service. Remote Sensing, 2021, 13, 3734.	4.0	11
48	Landslides induced by the 2017 Mw7.3 Sarpol Zahab earthquake (Iran). Landslides, 2022, 19, 603-619.	5.4	10
49	Interseismic coupling along the Mexican subduction zone seen by InSAR and GNSS. Earth and Planetary Science Letters, 2022, 586, 117534.	4.4	9
50	The variety of subaerial active salt deformations in the Kuqa fold-thrust belt (China) constrained by InSAR. Earth and Planetary Science Letters, 2016, 450, 83-95.	4.4	8
51	Sparsity Optimization Method for Slow-Moving Landslides Detection in Satellite Image Time-Series. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2133-2144.	6.3	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. Geophysical Journal International, 2001, 146, 691-698.	2.4	4
54	What can be learned from underdetermined geodetic slip inversions: the Parkfield GPS network example. Geophysical Journal International, 2013, 194, 1900-1908.	2.4	4

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55	Ranking evolution maps for Satellite Image Time Series exploration: application to crustal deformation and environmental monitoring. Data Mining and Knowledge Discovery, 2019, 33, 131-167.	3.7	4
56	Correction to â€œTransient 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 dataâ€• Journal of Geophysical Research, 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). Journal of Volcanology and Geothermal Research, 2022, 428, 107577.	2.1	2
61	Iterative summarization of satellite image time series. , 2014, , .		1