

# Marie-Pierre Doin

## List of Publications by Citations

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58  
papers

3,278  
citations

29  
h-index

57  
g-index

66  
ext. papers

3,826  
ext. citations

4.4  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
58	Numerical simulations of subduction zones: Effect of slab dehydration on the mantle wedge dynamics. <i>Physics of the Earth and Planetary Interiors</i> , <b>2005</b> , 149, 133-153	2.3	355
57	Corrections of stratified tropospheric delays in SAR interferometry: Validation with global atmospheric models. <i>Journal of Applied Geophysics</i> , <b>2009</b> , 69, 35-50	1.7	232
56	A comparison of methods for the modeling of thermochemical convection. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 22477-22495		206
55	Systematic InSAR tropospheric phase delay corrections from global meteorological reanalysis data. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	181
54	Mantle convection and stability of depleted and undepleted continental lithosphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 2771-2787		166
53	Improving InSAR geodesy using Global Atmospheric Models. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 2324-2341	3.6	153
52	Time series analysis of Mexico City subsidence constrained by radar interferometry. <i>Journal of Applied Geophysics</i> , <b>2009</b> , 69, 1-15	1.7	145
51	Measurement of interseismic strain across the Haiyuan fault (Gansu, China), by InSAR. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 275, 246-257	5.3	124
50	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> , <b>2007</b> , 112,		124
49	Shallow creep on the Haiyuan Fault (Gansu, China) revealed by SAR Interferometry. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		112
48	Heat transport in stagnant lid convection with temperature- and pressure-dependent Newtonian or non-Newtonian rheology. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 12759-12777		111
47	Long-term growth of the Himalaya inferred from interseismic InSAR measurement. <i>Geology</i> , <b>2012</b> , 40, 1059-1062	5	97
46	New Radar Interferometric Time Series Analysis Toolbox Released. <i>Eos</i> , <b>2013</b> , 94, 69-70	1.5	87
45	Spatio-temporal evolution of aseismic slip along the Haiyuan fault, China: Implications for fault frictional properties. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 377-378, 23-33	5.3	79
44	Numerical simulations of the mantle lithosphere delamination. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		74
43	Geoid anomalies and the structure of continental and oceanic lithospheres. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 16119-16135		73
42	Subduction initiation and continental crust recycling: the roles of rheology and eclogitization. <i>Tectonophysics</i> , <b>2001</b> , 342, 163-191	3.1	72

41	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> , <b>2012</b> , 5, 1312-1326	4.7	70
40	Large-scale InSAR monitoring of permafrost freeze-thaw cycles on the Tibetan Plateau. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 901-909	4.9	59
39	Slab surface temperature in subduction zones: Influence of the interplate decoupling depth and upper plate thinning processes. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 255, 324-338	5.3	59
38	Convective destabilization of a thickened continental lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 202, 303-320	5.3	52
37	Unsupervised Spatiotemporal Mining of Satellite Image Time Series Using Grouped Frequent Sequential Patterns. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2011</b> , 49, 1417-1430	8.1	50
36	Overriding plate thinning in subduction zones: Localized convection induced by slab dehydration. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2006</b> , 7, n/a-n/a	3.6	50
35	Numerical simulations of the cooling of an oceanic lithosphere above a convective mantle. <i>Physics of the Earth and Planetary Interiors</i> , <b>2001</b> , 125, 45-64	2.3	49
34	Back-arc strain in subduction zones: Statistical observations versus numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	42
33	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> , <b>2018</b> , 210, 144-158	13.2	39
32	Along-strike variations of the partitioning of convergence across the Haiyuan fault system detected by InSAR. <i>Geophysical Journal International</i> , <b>2016</b> , 205, 536-547	2.6	39
31	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> , <b>2015</b> , 120, 5290-5310	3.6	37
30	Flattening of the oceanic topography and geoid: thermal versus dynamic origin. <i>Geophysical Journal International</i> , <b>2000</b> , 143, 582-594	2.6	31
29	Strain Partitioning and Present-Day Fault Kinematics in NW Tibet From Envisat SAR Interferometry. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 2462-2483	3.6	29
28	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> , <b>2012</b> , 117, n/a-n/a		29
27	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> , <b>2010</b> , 115,		28
26	Constraining the kinematics of metropolitan Los Angeles faults with a slip-partitioning model. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11192-11201	4.9	23
25	Plume-lithosphere interaction beneath a fast moving plate. <i>Geophysical Research Letters</i> , <b>2006</b> , 33, n/a-n/a	4.9	23
24	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> , <b>2004</b> , 386, 1-27	3.1	23

23	DEM Corrections Before Unwrapping in a Small Baseline Strategy for InSAR Time Series Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 696-700	4.1	22
22	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> , <b>2020</b> , 125, e2019JB018187	3.6	16
21	InSAR observations of lake loading at Yangzhuoyong Lake, Tibet: Constraints on crustal elasticity. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 449, 240-245	5.3	15
20	Three-dimensional numerical simulations of mantle flow beneath mid-ocean ridges. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		15
19	Ice loss in the Northeastern Tibetan Plateau permafrost as seen by 16 yr of ESA SAR missions. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 545, 116404	5.3	14
18	Influence of the precollisional stage on subduction dynamics and the buried crust thermal state: Insights from numerical simulations. <i>Tectonophysics</i> , <b>2007</b> , 441, 27-45	3.1	13
17	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> , <b>2004</b> , 160, 345-357	2.6	11
16	Interseismic deformation of the Shahroud fault system (NE Iran) from space-borne radar interferometry measurements. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5753-5761	4.9	9
15	Localized Afterslip at Geometrical Complexities Revealed by InSAR After the 2016 Central Italy Seismic Sequence. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB019065	3.6	7
14	The variety of subaerial active salt deformations in the Kuqa fold-thrust belt (China) constrained by InSAR. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 450, 83-95	5.3	5
13	On the interpretation of linear relationships between seafloor subsidence rate and the height of the ridge. <i>Geophysical Journal International</i> , <b>2001</b> , 146, 691-698	2.6	4
12	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 2133-2144	8.1	4
11	What can be learned from underdetermined geodetic slip inversions: the Parkfield GPS network example. <i>Geophysical Journal International</i> , <b>2013</b> , 194, 1900-1908	2.6	3
10	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> , <b>2010</b> , 115,		3
9	A Simple Phase Unwrapping Errors Correction Algorithm Based on Phase Closure Analysis <b>2018</b> ,		3
8	Spatiotemporal mining of ENVISAT SAR interferogram time series over the Haiyuan fault in China <b>2011</b> ,		2
7	Ranking evolution maps for Satellite Image Time Series exploration: application to crustal deformation and environmental monitoring. <i>Data Mining and Knowledge Discovery</i> , <b>2019</b> , 33, 131-167	5.6	2
6	Iterative summarization of satellite image time series <b>2014</b> ,		1

5	Landslides induced by the 2017 Mw7.3 Sarpol Zahab earthquake (Iran). <i>Landslides</i> , <b>2022</b> , 19, 603	6.6	1
4	FLATSIM: The ForM@Ter LARge-Scale Multi-Temporal Sentinel-1 InterferoMetry Service. <i>Remote Sensing</i> , <b>2021</b> , 13, 3734	5	1
3	Terrain deformation measurements from optical satellite imagery: The MPIC-OPT processing services for geohazards monitoring. <i>Remote Sensing of Environment</i> , <b>2022</b> , 274, 112949	13.2	1
2	Interseismic coupling along the Mexican subduction zone seen by InSAR and GNSS. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 586, 117534	5.3	0
1	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> , <b>2022</b> , 428, 107577	2.8	0