

Joseph Martinod

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44
papers

3,366
citations

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h-index

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44
ext. papers

3,684
ext. citations

4.2
avg, IF

4.78
L-index

#	Paper	IF	Citations
44	Mantle dynamics, uplift of the Tibetan Plateau, and the Indian Monsoon. <i>Reviews of Geophysics</i> , 1993 , 31, 357	23.1	1321
43	Timing, kinematics and cause of Aegean extension: a scenario based on a comparison with simple analogue experiments. <i>Tectonophysics</i> , 1999 , 315, 31-72	3.1	229
42	Flat subduction dynamics and deformation of the South American plate: Insights from analog modeling. <i>Tectonics</i> , 2008 , 27, n/a-n/a	4.3	142
41	Relative sea-level fall since the last interglacial stage: Are coasts uplifting worldwide?. <i>Earth-Science Reviews</i> , 2011 , 108, 1-15	10.2	126
40	Late Cenozoic deformation and uplift of the western flank of the Altiplano: Evidence from the depositional, tectonic, and geomorphologic evolution and shallow seismic activity (northern Chile at 19°30'S). <i>Tectonics</i> , 2005 , 24, n/a-n/a	4.3	117
39	Late Miocene high and rapid surface uplift and its erosional response in the Andes of central Chile (33°B5'S). <i>Tectonics</i> , 2008 , 27, n/a-n/a	4.3	99
38	Crustal-scale structural architecture in central Chile based on seismicity and surface geology: Implications for Andean mountain building. <i>Tectonics</i> , 2010 , 29,	4.3	97
37	Neogene to Quaternary tectonic evolution of the Patagonian Andes at the latitude of the Chile Triple Junction. <i>Tectonophysics</i> , 2004 , 385, 211-241	3.1	94
36	Shortening of analogue models of the continental lithosphere: New hypothesis for the formation of the Tibetan plateau. <i>Tectonics</i> , 1994 , 13, 475-483	4.3	88
35	Neogene uplift of central eastern Patagonia: Dynamic response to active spreading ridge subduction?. <i>Tectonics</i> , 2009 , 28, n/a-n/a	4.3	86
34	Variations of slab dip and overriding plate tectonics during subduction: Insights from analogue modelling. <i>Tectonophysics</i> , 2009 , 463, 167-174	3.1	76
33	An analog experiment for the Aegean to describe the contribution of gravitational potential energy. <i>Journal of Geophysical Research</i> , 1997 , 102, 649-659		67
32	Periodic instabilities during compression of the lithosphere: 2. Analogue experiments. <i>Journal of Geophysical Research</i> , 1994 , 99, 12057-12069		65
31	Uplift of quaternary shorelines in eastern Patagonia: Darwin revisited. <i>Geomorphology</i> , 2011 , 127, 121-142	4.3	64
30	Renewed uplift of the Central Andes Forearc revealed by coastal evolution during the Quaternary. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 199-210	5.3	63
29	Mantle flow and dynamic topography associated with slab window opening: Insights from laboratory models. <i>Tectonophysics</i> , 2010 , 496, 83-98	3.1	55
28	From subduction to collision: Control of deep processes on the evolution of convergent plate boundary. <i>Journal of Geophysical Research</i> , 2003 , 108,		54

27	Dynamic topography control on Patagonian relief evolution as inferred from low temperature thermochronology. <i>Earth and Planetary Science Letters</i> , 2013 , 364, 157-167	5.3	53
26	Effect of aseismic ridge subduction on slab geometry and overriding plate deformation: Insights from analogue modeling. <i>Tectonophysics</i> , 2013 , 588, 39-55	3.1	49
25	Slab pull and indentation tectonics: insights from 3D laboratory experiments. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 149, 99-113	2.3	43
24	Active deformation in the inner western Alps inferred from comparison between 1972-classical and 1996-GPS geodetic surveys. <i>Tectonophysics</i> , 2000 , 320, 17-29	3.1	40
23	Laboratory experiments of slab break-off and slab dip reversal: insight into the Alpine Oligocene reorganization. <i>Terra Nova</i> , 2008 , 20, 267-273	3	35
22	Late Cenozoic geomorphologic signal of Andean forearc deformation and tilting associated with the uplift and climate changes of the Southern Atacama Desert (26°S-28°S). <i>Geomorphology</i> , 2007 , 86, 283-306	4.3	35
21	Buckling of the oceanic lithosphere from geophysical data and experiments. <i>Tectonics</i> , 1992 , 11, 537-548	4.3	31
20	A note on ¹⁰ Be-derived mean erosion rates in catchments with heterogeneous lithology: examples from the western Central Andes. <i>Earth Surface Processes and Landforms</i> , 2015 , 40, 1719-1729	3.7	27
19	Geomorphological markers of faulting and neotectonic activity along the western Andean margin, northern Chile. <i>Journal of Quaternary Science</i> , 2003 , 18, 681-694	2.3	24
18	Variability in erosion rates related to the state of landscape transience in the semi-arid Chilean Andes. <i>Earth Surface Processes and Landforms</i> , 2011 , 36, 1736-1748	3.7	23
17	Present-day deformation of the Dauphine Alpine and Subalpine massifs (SE France). <i>Geophysical Journal International</i> , 1996 , 127, 189-200	2.6	22
16	Pleistocene uplift, climate and morphological segmentation of the Northern Chile coasts (24°S-28°S): Insights from cosmogenic ¹⁰ Be dating of paleoshorelines. <i>Geomorphology</i> , 2016 , 274, 78-91	4.3	15
15	The interplay between overriding plate kinematics, slab dip and tectonics. <i>Geophysical Journal International</i> , 2018 , 215, 1789-1802	2.6	15
14	Widening of the Andes: An interplay between subduction dynamics and crustal wedge tectonics. <i>Earth-Science Reviews</i> , 2020 , 204, 103170	10.2	14
13	Upper Pleistocene uplifted shorelines as tracers of (local rather than global) subduction dynamics. <i>Journal of Geodynamics</i> , 2014 , 78, 8-20	2.2	14
12	The metamorphic rocks of the Nunatak Viedma in the Southern Patagonian Andes: Provenance sources and implications for the early Mesozoic Patagonia-Antarctic Peninsula connection. <i>Journal of South American Earth Sciences</i> , 2019 , 90, 471-486	2	13
11	Chronology of Chilean Frontal Cordillera building from geochronological, stratigraphic and geomorphological data insights from Miocene intramontane-basin deposits. <i>Basin Research</i> , 2018 , 30, 289-310	3.2	12
10	Slab dip, surface tectonics: How and when do they change following an acceleration/slow down of the overriding plate?. <i>Tectonophysics</i> , 2018 , 726, 110-120	3.1	11

9	Influence of early strike-slip deformation on subsequent perpendicular shortening: An experimental approach. <i>Journal of Structural Geology</i> , 2007 , 29, 59-72	3	10
8	Using geomorphological markers to discriminate Neogene tectonic activity in the Precordillera of North Chilean forearc (24°S). <i>Tectonophysics</i> , 2005 , 411, 41-55	3.1	10
7	Role of climate and tectonics in the geomorphologic evolution of the Semiarid Chilean Andes between 27-32°S. <i>Andean Geology</i> , 2013 , 40,	2.4	7
6	Structure and tectonic evolution of the South Patagonian fold and thrust belt: Coupling between subduction dynamics, climate and tectonic deformation 2019 , 675-697		5
5	Trench-parallel spreading ridge subduction and its consequences for the geological evolution of the overriding plate: Insights from analogue models and comparison with the Neogene subduction beneath Patagonia. <i>Tectonophysics</i> , 2018 , 737, 27-39	3.1	4
4	Synconvergence flow inside and at the margin of orogenic plateaus: Lithospheric-scale experimental approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 6634-6657	3.6	4
3	Late Miocene - Quaternary forearc uplift in southern Peru: new insights from 10Be dates and rocky coastal sequences. <i>Journal of South American Earth Sciences</i> , 2021 , 109, 103261	2	4
2	Seismotectonic implications of the South Chile ridge subduction beneath the Patagonian Andes. <i>Terra Nova</i> , 2021 , 33, 364-374	3	2
1	Regal : réseau GPS permanent dans les Alpes occidentales. Configuration et premiers résultats. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 2000 , 331, 435-442		1