

Giampiero Iaffaldano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

837
citations

19
h-index

28
g-index

35
ext. papers

958
ext. citations

8.4
avg, IF

4.56
L-index

#	Paper	IF	Citations
32	Growth of Neogene Andes linked to changes in plate convergence using high-resolution kinematic models.. <i>Nature Communications</i> , 2022 , 13, 1339	17.4	1
31	Decadal change of the Apulia microplate motion preceding the M 6.4, 26 November 2019 Durrës (Albania) earthquake. <i>Earth and Planetary Science Letters</i> , 2022 , 584, 117505	5.3	
30	Pressure-Driven Poiseuille Flow Inherited From Mesozoic Mantle Circulation Led to the Eocene Separation of Australia and Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB019945 ²	3.6	1
29	Has the Tibetan Plateau risen in the Early/Mid-Miocene? Constraints from plate-motion reconstructions and seismicity of the Indian Ocean lithosphere. <i>Geophysical Journal International</i> , 2021 , 225, 1349-1358	2.6	0
28	Using Rigid Microplate Motions to Detect the Stress Buildup Preceding Large Earthquakes: A Feasibility Test Based on Synthetic Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 13468-13485 ¹	3.6	1
27	Indian Ocean floor deformation induced by the Reunion plume rather than the Tibetan Plateau. <i>Nature Geoscience</i> , 2018 , 11, 362-366	18.3	13
26	Pressure-Driven Poiseuille Flow: A Major Component of the Torque-Balance Governing Pacific Plate Motion. <i>Geophysical Research Letters</i> , 2018 , 45, 117-125	4.9	24
25	The concurrent emergence and causes of double volcanic hotspot tracks on the Pacific plate. <i>Nature</i> , 2017 , 545, 472-476	50.4	28
24	Late Miocene Pacific plate kinematic change explained with coupled global models of mantle and lithosphere dynamics. <i>Geophysical Research Letters</i> , 2017 , 44, 7177-7186	4.9	16
23	Impact of uncertain reference-frame motions in plate kinematic reconstructions: A theoretical appraisal. <i>Earth and Planetary Science Letters</i> , 2017 , 458, 349-356	5.3	3
22	Late Neogene changes in North America and Antarctica absolute plate motions inferred from the Mid-Atlantic and Southwest Indian Ridges spreading histories. <i>Geophysical Research Letters</i> , 2016 , 43, 8466-8472	4.9	6
21	Rapid Plate Motion Variations Through Geological Time: Observations Serving Geodynamic Interpretation. <i>Annual Review of Earth and Planetary Sciences</i> , 2015 , 43, 571-592	15.3	33
20	Lithospheric controls on magma composition along Earth's longest continental hotspot track. <i>Nature</i> , 2015 , 525, 511-4	50.4	99
19	High-resolution Neogene and Quaternary estimates of Nubia-Eurasia-North America Plate motion. <i>Geophysical Journal International</i> , 2015 , 203, 416-427	2.6	51
18	Role of mantle flow in Nubia-Somalia plate divergence. <i>Geophysical Research Letters</i> , 2015 , 42, 290-296	4.9	30
17	Rapid South Atlantic spreading changes and coeval vertical motion in surrounding continents: Evidence for temporal changes of pressure-driven upper mantle flow. <i>Tectonics</i> , 2014 , 33, 1304-1321	4.3	64
16	A geodynamical view on the steadiness of geodetically derived rigid plate motions over geological time. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 238-254	3.6	9

15	Bayesian noise-reduction in Arabia/Somalia and Nubia/Arabia finite rotations since ~20 Ma: Implications for Nubia/Somalia relative motion. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 845-854	3.6	22
14	REDBACK: Open-source software for efficient noise-reduction in plate kinematic reconstructions. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 1663-1670	3.6	26
13	Pacific plate-motion change at the time of the Hawaiian-Emperor bend constrains the viscosity of Earth's asthenosphere. <i>Geophysical Research Letters</i> , 2014 , 41, 3398-3406	4.9	12
12	Slow-downs and speed-ups of India-Eurasia convergence since ~20Ma: Data-noise, uncertainties and dynamic implications. <i>Earth and Planetary Science Letters</i> , 2013 , 367, 146-156	5.3	24
11	The role of the Zagros orogeny in slowing down Arabia-Eurasia convergence since ~5 Ma. <i>Tectonics</i> , 2013 , 32, 351-363	4.3	48
10	Role of lithosphere in intra-continental deformation: Central Australia. <i>Gondwana Research</i> , 2013 , 24, 958-968	5.1	24
9	Varying mechanical coupling along the Andean margin: Implications for trench curvature, shortening and topography. <i>Tectonophysics</i> , 2012 , 526-529, 16-23	3.1	8
8	Reconstructing plate-motion changes in the presence of finite-rotations noise. <i>Nature Communications</i> , 2012 , 3, 1048	17.4	38
7	The strength of large-scale plate boundaries: Constraints from the dynamics of the Philippine Sea plate since ~5Ma. <i>Earth and Planetary Science Letters</i> , 2012 , 357-358, 21-30	5.3	22
6	Monsoon speeds up Indian plate motion. <i>Earth and Planetary Science Letters</i> , 2011 , 304, 503-510	5.3	35
5	Relating rapid plate-motion variations to plate-boundary forces in global coupled models of the mantle/lithosphere system: Effects of topography and friction. <i>Tectonophysics</i> , 2009 , 474, 393-404	3.1	36
4	Topography growth drives stress rotations in the central Andes: Observations and models. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	23
3	Strong plate coupling along the Nazca-South America convergent margin. <i>Geology</i> , 2008 , 36, 443	5	30
2	Mountain belt growth inferred from histories of past plate convergence: A new tectonic inverse problem. <i>Earth and Planetary Science Letters</i> , 2007 , 260, 516-523	5.3	14
1	Feedback between mountain belt growth and plate convergence. <i>Geology</i> , 2006 , 34, 893	5	95