

Fabio A Capitanio

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.

59
papers

2,392
citations

25
h-index

48
g-index

68
ext. papers

2,777
ext. citations

7.1
avg. IF

5.46
L-index

#	Paper	IF	Citations
59	Make subductions diverse again. <i>Earth-Science Reviews</i> , 2022 , 226, 103966	10.2	2
58	Numerical Modeling of Tectonic Processes 2021 , 903-912		
57	Timescales of successful and failed subduction: insights from numerical modelling. <i>Geophysical Journal International</i> , 2021 , 225, 261-276	2.6	
56	Dynamic interactions between subduction zones. <i>Global and Planetary Change</i> , 2021 , 202, 103501	4.2	5
55	Convergence Velocity Controls on the Structural Evolution of Orogens. <i>Tectonics</i> , 2021 , 40, e2020TC006570	4.3	5
54	The role of pre-existing weak zones in the formation of the Himalaya and Tibetan plateau: 3-D thermomechanical modelling. <i>Geophysical Journal International</i> , 2020 , 221, 1971-1983	2.6	5
53	Current Deformation in the Tibetan Plateau: A Stress Gauge in the India-Asia Collision Tectonics. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008649	3.6	7
52	Peel-back controlled lithospheric convergence explains the secular transitions in Archean metamorphism and magmatism. <i>Earth and Planetary Science Letters</i> , 2020 , 538, 116224	5.3	24
51	Self-consistent stick-slip recurrent behaviour of elastoplastic faults in intraplate environment: a Lagrangian solid mechanics approach. <i>Geophysical Journal International</i> , 2020 , 221, 151-162	2.6	3
50	3-D Analog Modeling Constraints on Rifting in the Afar Region. <i>Tectonics</i> , 2020 , 39, e2020TC006339	4.3	6
49	Thermochemical lithosphere differentiation and the origin of cratonic mantle. <i>Nature</i> , 2020 , 588, 89-94	50.4	13
48	An Early Cretaceous subduction-modified mantle underneath the ultraslow spreading Gakkel Ridge, Arctic Ocean. <i>Science Advances</i> , 2020 , 6,	14.3	15
47	Lithosphere differentiation in the early Earth controls Archean tectonics. <i>Earth and Planetary Science Letters</i> , 2019 , 525, 115755	5.3	22
46	Subduction geometry controls on dynamic topography: implications for the Jurassic Surat Basin. <i>Australian Journal of Earth Sciences</i> , 2019 , 66, 367-377	1.4	6
45	Contrasted East Asia and South America tectonics driven by deep mantle flow. <i>Earth and Planetary Science Letters</i> , 2019 , 517, 106-116	5.3	12
44	The Impact of a Very Weak and Thin Upper Asthenosphere on Subduction Motions. <i>Geophysical Research Letters</i> , 2019 , 46, 11893-11905	4.9	2
43	Modeling Slab-Slab Interactions: Dynamics of Outward Dipping Double-Sided Subduction Systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 693-714	3.6	12

42	On the Role of Lower Crust and Midlithosphere Discontinuity for Cratonic Lithosphere Delamination and Recycling. <i>Geophysical Research Letters</i> , 2018 , 45, 7425-7433	4.9	20
41	Constraints on mantle viscosity structure from continental drift histories in spherical mantle convection models. <i>Tectonophysics</i> , 2018 , 746, 339-351	3.1	25
40	The role of deep subduction in supercontinent breakup. <i>Tectonophysics</i> , 2018 , 746, 312-324	3.1	44
39	Numerical modeling of stress and topography coupling during subduction: Inferences on global vs. regional observables interpretation. <i>Tectonophysics</i> , 2018 , 746, 239-250	3.1	5
38	Water transportation ability of flat-lying slabs in the mantle transition zone and implications for craton destruction. <i>Tectonophysics</i> , 2018 , 723, 95-106	3.1	14
37	Geological archive of the onset of plate tectonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	132
36	When crust comes of age: on the chemical evolution of Archaean, felsic continental crust by crustal drip tectonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	49
35	Flexural Analysis Along the Sunda Trench: Bending, Buckling and Plate Coupling. <i>Tectonics</i> , 2018 , 37, 3524-3544	4.3	5
34	Subduction induced mantle flow: Length-scales and orientation of the toroidal cell. <i>Earth and Planetary Science Letters</i> , 2017 , 479, 284-297	5.3	27
33	The effect of plate-scale rheology and plate interactions on intraplate seismicity. <i>Earth and Planetary Science Letters</i> , 2017 , 478, 121-131	5.3	5
32	Ancient Continental Lithosphere Dislocated Beneath Ocean Basins Along the Mid-Lithosphere Discontinuity: A Hypothesis. <i>Geophysical Research Letters</i> , 2017 , 44, 9253-9260	4.9	9
31	Crustal rheology controls on the Tibetan plateau formation during India-Asia convergence. <i>Nature Communications</i> , 2017 , 8, 15992	17.4	34
30	Subduction zone interaction: Controls on arcuate belts. <i>Geology</i> , 2016 , 44, 715-718	5	28
29	The role of long-term rifting history on modes of continental lithosphere extension. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8917-8940	3.6	7
28	Lithosphere thinning induced by slab penetration into a hydrous mantle transition zone. <i>Geophysical Research Letters</i> , 2016 , 43, 11,567	4.9	25
27	The emergence of seismic cycles from stress feedback between intra-plate faulting and far-field tectonic loading. <i>Earth and Planetary Science Letters</i> , 2016 , 447, 112-118	5.3	2
26	The role of the Miocene-to-Pliocene transition in the Eastern Mediterranean extrusion tectonics: Constraints from numerical modelling. <i>Earth and Planetary Science Letters</i> , 2016 , 448, 122-132	5.3	9
25	Reconciling subduction dynamics during Tethys closure with large-scale Asian tectonics: Insights from numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 962-982	3.6	25

24	The coupling of Indian subduction and Asian continental tectonics. <i>Gondwana Research</i> , 2014 , 26, 608-626	3.1	77
23	Overriding plate controls on subduction evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 6684-6704	3.6	41
22	Mantle dynamics in the Mediterranean. <i>Reviews of Geophysics</i> , 2014 , 52, 283-332	23.1	293
21	The role of viscoelasticity in subducting plates. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 4291-4306	3.6	47
20	The dynamics of extrusion tectonics: Insights from numerical modeling. <i>Tectonics</i> , 2014 , 33, 2361-2381	4.3	23
19	Lithospheric-age control on the migrations of oceanic convergent margins. <i>Tectonophysics</i> , 2013 , 593, 193-200	3.1	7
18	Seismic anisotropy around subduction zones: Insights from three-dimensional modeling of upper mantle deformation and SKS splitting calculations. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 243-262	3.6	79
17	Subduction and slab breakoff controls on Asian indentation tectonics and Himalayan western syntaxis formation. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 3515-3531	3.6	47
16	The bending mechanics in a dynamic subduction system: Constraints from numerical modelling and global compilation analysis. <i>Tectonophysics</i> , 2012 , 522-523, 224-234	3.1	28
15	Complex mantle flow around heterogeneous subducting oceanic plates. <i>Earth and Planetary Science Letters</i> , 2012 , 353-354, 29-37	5.3	24
14	Development of mantle seismic anisotropy during subduction-induced 3-D flow. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	70
13	Subduction dynamics and the origin of Andean orogeny and the Bolivian orocline. <i>Nature</i> , 2011 , 480, 83-6	50.4	127
12	Signatures of downgoing plate-buoyancy driven subduction in Cenozoic plate motions. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 184, 1-13	2.3	37
11	Recent tectonics of Tripolitania, Libya: an intraplate record of Mediterranean subduction. <i>Geological Society Special Publication</i> , 2011 , 357, 319-328	1.7	13
10	India-Asia convergence driven by the subduction of the Greater Indian continent. <i>Nature Geoscience</i> , 2010 , 3, 136-139	18.3	141
9	Controls on subduction reorganization in the Hellenic margin, eastern Mediterranean. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	11
8	Upper plate controls on deep subduction, trench migrations and deformations at convergent margins. <i>Tectonophysics</i> , 2010 , 483, 80-92	3.1	110
7	A regime diagram for subduction styles from 3-D numerical models of free subduction. <i>Tectonophysics</i> , 2010 , 483, 29-45	3.1	133

6	The opening of Sirte basin: Result of slab avalanching?. <i>Earth and Planetary Science Letters</i> , 2009 , 285, 210-216	5.3	37
5	Dynamics of plate bending at the trench and slab-plate coupling. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	91
4	Evidence of lower-mantle slab penetration phases in plate motions. <i>Nature</i> , 2008 , 451, 981-4	50.4	121
3	Dynamic models of downgoing plate-buoyancy driven subduction: Subduction motions and energy dissipation. <i>Earth and Planetary Science Letters</i> , 2007 , 262, 284-297	5.3	136
2	Mesozoic spreading kinematics: consequences for Cenozoic Central and Western Mediterranean subduction. <i>Geophysical Journal International</i> , 2006 , 165, 804-816	2.6	47
1	Craton formation in early Earth mantle convection regimes. <i>Journal of Geophysical Research: Solid Earth</i> ,	3.6	2