

Fabio A Capitanio

List of Publications by Citations

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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 | Mantle dynamics in the Mediterranean. <i>Reviews of Geophysics</i> , 2014 , 52, 283-332 | 23.1 | 293 |
| 58 | India-Asia convergence driven by the subduction of the Greater Indian continent. <i>Nature Geoscience</i> , 2010 , 3, 136-139 | 18.3 | 141 |
| 57 | 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 |
| 56 | A regime diagram for subduction styles from 3-D numerical models of free subduction. <i>Tectonophysics</i> , 2010 , 483, 29-45 | 3.1 | 133 |
| 55 | Geological archive of the onset of plate tectonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376, | 3 | 132 |
| 54 | Subduction dynamics and the origin of Andean orogeny and the Bolivian orocline. <i>Nature</i> , 2011 , 480, 83-6 | 50.4 | 127 |
| 53 | Evidence of lower-mantle slab penetration phases in plate motions. <i>Nature</i> , 2008 , 451, 981-4 | 50.4 | 121 |
| 52 | Upper plate controls on deep subduction, trench migrations and deformations at convergent margins. <i>Tectonophysics</i> , 2010 , 483, 80-92 | 3.1 | 110 |
| 51 | 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 |
| 50 | 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 |
| 49 | The coupling of Indian subduction and Asian continental tectonics. <i>Gondwana Research</i> , 2014 , 26, 608-626 | 5.1 | 77 |
| 48 | 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 |
| 47 | 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 |
| 46 | The role of viscoelasticity in subducting plates. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 4291-4304 | 3.6 | 47 |
| 45 | 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 |
| 44 | Mesozoic spreading kinematics: consequences for Cenozoic Central and Western Mediterranean subduction. <i>Geophysical Journal International</i> , 2006 , 165, 804-816 | 2.6 | 47 |
| 43 | The role of deep subduction in supercontinent breakup. <i>Tectonophysics</i> , 2018 , 746, 312-324 | 3.1 | 44 |

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| 42 | Overriding plate controls on subduction evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 6684-6704 | 3.6 | 41 |
| 41 | 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 |
| 40 | The opening of Sirte basin: Result of slab avalanching?. <i>Earth and Planetary Science Letters</i> , 2009 , 285, 210-216 | 5.3 | 37 |
| 39 | Crustal rheology controls on the Tibetan plateau formation during India-Asia convergence. <i>Nature Communications</i> , 2017 , 8, 15992 | 17.4 | 34 |
| 38 | Subduction zone interaction: Controls on arcuate belts. <i>Geology</i> , 2016 , 44, 715-718 | 5 | 28 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | Constraints on mantle viscosity structure from continental drift histories in spherical mantle convection models. <i>Tectonophysics</i> , 2018 , 746, 339-351 | 3.1 | 25 |
| 33 | Lithosphere thinning induced by slab penetration into a hydrous mantle transition zone. <i>Geophysical Research Letters</i> , 2016 , 43, 11,567 | 4.9 | 25 |
| 32 | 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 |
| 31 | Complex mantle flow around heterogeneous subducting oceanic plates. <i>Earth and Planetary Science Letters</i> , 2012 , 353-354, 29-37 | 5.3 | 24 |
| 30 | The dynamics of extrusion tectonics: Insights from numerical modeling. <i>Tectonics</i> , 2014 , 33, 2361-2381 | 4.3 | 23 |
| 29 | Lithosphere differentiation in the early Earth controls Archean tectonics. <i>Earth and Planetary Science Letters</i> , 2019 , 525, 115755 | 5.3 | 22 |
| 28 | 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 |
| 27 | An Early Cretaceous subduction-modified mantle underneath the ultraslow spreading Gakkel Ridge, Arctic Ocean. <i>Science Advances</i> , 2020 , 6, | 14.3 | 15 |
| 26 | 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 |
| 25 | Recent tectonics of Tripolitania, Libya: an intraplate record of Mediterranean subduction. <i>Geological Society Special Publication</i> , 2011 , 357, 319-328 | 1.7 | 13 |

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| 24 | Thermochemical lithosphere differentiation and the origin of cratonic mantle. <i>Nature</i> , 2020 , 588, 89-94 | 50.4 | 13 |
| 23 | 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 |
| 22 | Modeling Slab-Slab Interactions: Dynamics of Outward Dipping Double-Sided Subduction Systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 693-714 | 3.6 | 12 |
| 21 | Controls on subduction reorganization in the Hellenic margin, eastern Mediterranean. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 11 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | Lithospheric-age control on the migrations of oceanic convergent margins. <i>Tectonophysics</i> , 2013 , 593, 193-200 | 3.1 | 7 |
| 15 | 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 |
| 14 | 3-D Analog Modeling Constraints on Rifting in the Afar Region. <i>Tectonics</i> , 2020 , 39, e2020TC006339 | 4.3 | 6 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | Flexural Analysis Along the Sunda Trench: Bending, Buckling and Plate Coupling. <i>Tectonics</i> , 2018 , 37, 3524-3544 | 4.3 | 5 |
| 9 | Dynamic interactions between subduction zones. <i>Global and Planetary Change</i> , 2021 , 202, 103501 | 4.2 | 5 |
| 8 | 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 |
| 7 | 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 |

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| 6 | 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 |
| 5 | Make subductions diverse again. <i>Earth-Science Reviews</i> , 2022 , 226, 103966 | 10.2 | 2 |
| 4 | Craton formation in early Earth mantle convection regimes. <i>Journal of Geophysical Research: Solid Earth</i> , | 3.6 | 2 |
| 3 | Numerical Modeling of Tectonic Processes 2021 , 903-912 | | |
| 2 | Timescales of successful and failed subduction: insights from numerical modelling. <i>Geophysical Journal International</i> , 2021 , 225, 261-276 | 2.6 | |
| 1 | Convergence Velocity Controls on the Structural Evolution of Orogens. <i>Tectonics</i> , 2021 , 40, e2020TC006570 | 4.30 | |