

# Fabio A Capitanio

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

3,162  
citations

159358

30  
h-index

155451

55  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2656  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Mantle dynamics in the Mediterranean. <i>Reviews of Geophysics</i> , 2014, 52, 283-332.   | 9.0  | 394       |
| 2  | Geological archive of the onset of plate tectonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170405.   | 1.6  | 227       |
| 3  | India-Asia convergence driven by the subduction of the Greater Indian continent. <i>Nature Geoscience</i> , 2010, 3, 136-139.   | 5.4  | 183       |
| 4  | Subduction dynamics and the origin of Andean orogeny and the Bolivian orocline. <i>Nature</i> , 2011, 480, 83-86.   | 13.7 | 152       |
| 5  | A regime diagram for subduction styles from 3-D numerical models of free subduction. <i>Tectonophysics</i> , 2010, 483, 29-45.  | 0.9  | 149       |
| 6  | Dynamic models of downgoing plate-buoyancy driven subduction: Subduction motions and energy dissipation. <i>Earth and Planetary Science Letters</i> , 2007, 262, 284-297.   | 1.8  | 148       |
| 7  | Evidence of lower-mantle slab penetration phases in plate motions. <i>Nature</i> , 2008, 451, 981-984.  | 13.7 | 129       |
| 8  | Upper plate controls on deep subduction, trench migrations and deformations at convergent margins. <i>Tectonophysics</i> , 2010, 483, 80-92.  | 0.9  | 126       |
| 9  | Dynamics of plate bending at the trench and slab-plate coupling. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .  | 1.0  | 106       |
| 10 | 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.                       | 1.0  | 102       |
| 11 | The coupling of Indian subduction and Asian continental tectonics. <i>Gondwana Research</i> , 2014, 26, 608-626.  | 3.0  | 96        |
| 12 | Development of mantle seismic anisotropy during subduction-induced 3-D flow. <i>Geophysical Research Letters</i> , 2012, 39, .  | 1.5  | 82        |
| 13 | The role of deep subduction in supercontinent breakup. <i>Tectonophysics</i> , 2018, 746, 312-324.  | 0.9  | 77        |
| 14 | 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, 20180103. | 1.6  | 74        |
| 15 | The role of viscoelasticity in subducting plates. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4291-4304.  | 1.0  | 57        |
| 16 | Crustal rheology controls on the Tibetan plateau formation during India-Asia convergence. <i>Nature Communications</i> , 2017, 8, 15992.  | 5.8  | 57        |
| 17 | Mesozoic spreading kinematics: consequences for Cenozoic Central and Western Mediterranean subduction. <i>Geophysical Journal International</i> , 2006, 165, 804-816.   | 1.0  | 54        |
| 18 | Subduction and slab breakoff controls on Asian indentation tectonics and Himalayan western syntaxis formation. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3515-3531.   | 1.0  | 54        |

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|----|--|------|-----------|
| 19 | Overriding plate controls on subduction evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6684-6704.   | 1.4  | 49        |
| 20 | Peel-back controlled lithospheric convergence explains the secular transitions in Archean metamorphism and magmatism. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116224.      | 1.8  | 49        |
| 21 | The opening of Sirte basin: Result of slab avalanching?. <i>Earth and Planetary Science Letters</i> , 2009, 285, 210-216.  | 1.8  | 48        |
| 22 | Signatures of downgoing plate-buoyancy driven subduction in Cenozoic plate motions. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 184, 1-13.                                 | 0.7  | 42        |
| 23 | Subduction zone interaction: Controls on arcuate belts. <i>Geology</i> , 2016, 44, 715-718.  | 2.0  | 41        |
| 24 | Subduction induced mantle flow: Length-scales and orientation of the toroidal cell. <i>Earth and Planetary Science Letters</i> , 2017, 479, 284-297.                                       | 1.8  | 40        |
| 25 | Lithosphere differentiation in the early Earth controls Archean tectonics. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115755.   | 1.8  | 38        |
| 26 | Thermochemical lithosphere differentiation and the origin of cratonic mantle. <i>Nature</i> , 2020, 588, 89-94.  | 13.7 | 37        |
| 27 | Constraints on mantle viscosity structure from continental drift histories in spherical mantle convection models. <i>Tectonophysics</i> , 2018, 746, 339-351.                              | 0.9  | 35        |
| 28 | The bending mechanics in a dynamic subduction system: Constraints from numerical modelling and global compilation analysis. <i>Tectonophysics</i> , 2012, 522-523, 224-234.                | 0.9  | 34        |
| 29 | Reconciling subduction dynamics during Tethys closure with large-scale Asian tectonics: Insights from numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 962-982. | 1.0  | 33        |
| 30 | Lithosphere thinning induced by slab penetration into a hydrous mantle transition zone. <i>Geophysical Research Letters</i> , 2016, 43, 11,567.  | 1.5  | 30        |
| 31 | The dynamics of extrusion tectonics: Insights from numerical modeling. <i>Tectonics</i> , 2014, 33, 2361-2381.   | 1.3  | 29        |
| 32 | An Early Cretaceous subduction-modified mantle underneath the ultraslow spreading Gakkel Ridge, Arctic Ocean. <i>Science Advances</i> , 2020, 6, .   | 4.7  | 27        |
| 33 | Complex mantle flow around heterogeneous subducting oceanic plates. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 29-37.   | 1.8  | 26        |
| 34 | On the Role of Lower Crust and Midlithosphere Discontinuity for Cratonic Lithosphere Delamination and Recycling. <i>Geophysical Research Letters</i> , 2018, 45, 7425-7433.                | 1.5  | 26        |
| 35 | Contrasted East Asia and South America tectonics driven by deep mantle flow. <i>Earth and Planetary Science Letters</i> , 2019, 517, 106-116.  | 1.8  | 22        |
| 36 | Modeling Slab-Slab Interactions: Dynamics of Outward Dipping Double-Sided Subduction Systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 693-714.                             | 1.0  | 18        |

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|----|---|-----|-----------|
| 37 | 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.              | 1.0 | 18        |
| 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.                                      | 0.9 | 17        |
| 39 | Recent tectonics of Tripolitania, Libya: an intraplate record of Mediterranean subduction. <i>Geological Society Special Publication</i> , 2011, 357, 319-328.  | 0.8 | 15        |
| 40 | Ancient Continental Lithosphere Dislocated Beneath Ocean Basins Along the Mid-€Lithosphere Discontinuity: A Hypothesis. <i>Geophysical Research Letters</i> , 2017, 44, 9253-9260.                      | 1.5 | 15        |
| 41 | Dynamic interactions between subduction zones. <i>Global and Planetary Change</i> , 2021, 202, 103501.  | 1.6 | 14        |
| 42 | Make subductions diverse again. <i>Earth-Science Reviews</i> , 2022, 226, 103966.   | 4.0 | 14        |
| 43 | 3-€ Analog Modeling Constraints on Rifting in the Afar Region. <i>Tectonics</i> , 2020, 39, e2020TC006339.  | 1.3 | 13        |
| 44 | Controls on subduction reorganization in the Hellenic margin, eastern Mediterranean. <i>Geophysical Research Letters</i> , 2010, 37, .  | 1.5 | 12        |
| 45 | Current Deformation in the Tibetan Plateau: A Stress Gauge in the India-€Asia Collision Tectonics. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008649.                               | 1.0 | 12        |
| 46 | 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. | 1.8 | 11        |
| 47 | Numerical modeling of stress and topography coupling during subduction: Inferences on global vs. regional observables interpretation. <i>Tectonophysics</i> , 2018, 746, 239-250.                       | 0.9 | 10        |
| 48 | The effect of plate-scale rheology and plate interactions on intraplate seismicity. <i>Earth and Planetary Science Letters</i> , 2017, 478, 121-131.  | 1.8 | 9         |
| 49 | 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.                                       | 1.4 | 8         |
| 50 | Subduction geometry controls on dynamic topography: implications for the Jurassic Surat Basin. <i>Australian Journal of Earth Sciences</i> , 2019, 66, 367-377.   | 0.4 | 8         |
| 51 | Lithospheric-age control on the migrations of oceanic convergent margins. <i>Tectonophysics</i> , 2013, 593, 193-200.   | 0.9 | 7         |
| 52 | 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. | 1.0 | 6         |
| 53 | Craton Formation in Early Earth Mantle Convection Regimes. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .   | 1.4 | 6         |
| 54 | 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.                      | 1.8 | 5         |

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|----|---|-----|-----------|
| 55 | Flexural Analysis Along the Sunda Trench: Bending, Buckling and Plate Coupling. <i>Tectonics</i> , 2018, 37, 3524-3544.                           | 1.3 | 5         |
| 56 | The Impact of a Very Weak and Thin Upper Asthenosphere on Subduction Motions. <i>Geophysical Research Letters</i> , 2019, 46, 11893-11905.        | 1.5 | 5         |
| 57 | Numerical Modeling of Tectonic Processes. , 2021, , 903-912.  |     | 0         |
| 58 | Timescales of successful and failed subduction: insights from numerical modelling. <i>Geophysical Journal International</i> , 2021, 225, 261-276. | 1.0 | 0         |
| 59 | Convergence Velocity Controls on the Structural Evolution of Orogens. <i>Tectonics</i> , 2021, 40, e2020TC006570.                                 | 1.3 | 0         |