Joao C Duarte

List of Publications by Year
in descending order

37 papers	1,392 citations	279798 23 h-index	330143 37 g-index
57 all docs	57 docs citations	57 times ranked	1454 citing authors

#	Article	IF	Citations
1	Are subduction zones invading the Atlantic? Evidence from the southwest Iberia margin. Geology, 2013, 41, 839-842.	4.4	128
2	The Gibraltar subduction: A decade of new geophysical data. Tectonophysics, 2012, 574-575, 72-91.	2.2	109
3	Morphotectonics and strain partitioning at the Iberiaâ€“Africa plate boundary from multibeam and seismic reflection data. Marine Geology, 2009, 267, 156-174.	2.1	106
4	Three-dimensional dynamic laboratory models of subduction with an overriding plate and variable interplate rheology. Geophysical Journal International, 2013, 195, 47-66.	2.4	71
5	Does subduction-induced mantle flow drive backarc extension?. Earth and Planetary Science Letters, 2016, 441, 200-210.	4.4	67
6	Pacific subduction control on Asian continental deformation including Tibetan extension and eastward extrusion tectonics. Nature Communications, 2019, 10, 4480.	12.8	65
7	Morphotectonic characterization of major bathymetric lineaments in Gulf of Cadiz (Africaâ€“Iberia) Tj ETQq1 1 0.784314 rgBT /Overlock	2.1	60
8	Thrustâ€“wrench interference tectonics in the Gulf of Cadiz (Africaâ€“Iberia plate boundary in the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	56
9	How weak is the subduction zone interface?. Geophysical Research Letters, 2015, 42, 2664-2673.	4.0	52
10	Marine Transform Faults and Fracture Zones: A Joint Perspective Integrating Seismicity, Fluid Flow and Life. Frontiers in Earth Science, 2019, 7, .	1.8	46
11	Lithospheric deformation in the Africaâ€Iberia plate boundary: Improved neotectonic modeling testing a basalâ€driven Alboran plate. Journal of Geophysical Research: Solid Earth, 2016, 121, 6566-6596.	3.4	42
12	Micro-seismicity in the Gulf of Cadiz: Is there a link between micro-seismicity, high magnitude earthquakes and active faults?. Tectonophysics, 2017, 717, 226-241.	2.2	42
13	Thrustâ€“wrench interference between major active faults in the Gulf of Cadiz (Africaâ€“Eurasia plate) Tj ETQq1 1 0.784314 rgBT /Overl Tectonophysics, 2012, 548-549, 1-21.	2.2	40
14	Crescent-shaped morphotectonic features in the Gulf of Cadiz (offshore SW Iberia). Marine Geology, 2010, 271, 236-249.	2.1	38
15	Is There a Tectonically Driven Supertidal Cycle?. Geophysical Research Letters, 2018, 45, 3568-3576.	4.0	33
16	Rheology of petrolatumâ€“paraffin oil mixtures: Applications to analogue modelling of geological processes. Journal of Structural Geology, 2014, 63, 1-11.	2.3	31
17	The future of Earth's oceans: consequences of subduction initiation in the Atlantic and implications for supercontinent formation. Geological Magazine, 2018, 155, 45-58.	1.5	27
18	Overriding plate deformation and variability of foreâ€arc deformation during subduction: Insight from geodynamic models and application to the <scp>C</scp>alabria subduction zone. Geochemistry, Geophysics, Geosystems, 2015, 16, 3697-3715.	2.5	26

#	Article	IF	Citations
19	Geodynamic models of continental subduction and obduction of overriding plate forearc oceanic lithosphere on top of continental crust. Tectonics, 2015, 34, 1494-1515.	2.8	24
20	Capture of the Canary mantle plume material by the Gibraltar arc mantle wedge during slab rollback. Geophysical Journal International, 2015, 201, 1717-1721.	2.4	24
21	Mantle plumes in the vicinity of subduction zones. Earth and Planetary Science Letters, 2016, 454, 166-177.	4.4	24
22	Analogue modelling of different angle thrust-wrench fault interference in a brittle medium. Journal of Structural Geology, 2015, 74, 81-104.	2.3	23
23	Polarity-reversal subduction zone initiation triggered by buoyant plateau obstruction. Earth and Planetary Science Letters, 2022, 577, 117195.	4.4	22
24	Back to the future: Testing different scenarios for the next supercontinent gathering. Global and Planetary Change, 2018, 169, 133-144.	3.5	21
25	A twoâ€way interaction between the Hainan plume and the Manila subduction zone. Geophysical Research Letters, 2015, 42, 5796-5802.	4.0	17
26	Analogue modelling of thrust systems: Passive vs. active hanging wall strain accommodation and sharp vs. smooth fault-ramp geometries. Journal of Structural Geology, 2017, 99, 45-69.	2.3	16
27	Dynamics of the Gibraltar Arc System: A Complex Interaction Between Plate Convergence, Slab Pull, and Mantle Flow. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018873.	3.4	15
28	Recent uplift of the Atlantic Atlas (offshore West Morocco): Tectonic arch and submarine terraces. Tectonophysics, 2017, 706-707, 46-58.	2.2	14
29	Quantifying the energy dissipation of overriding plate deformation in threeâ€dimensional subduction models. Journal of Geophysical Research: Solid Earth, 2015, 120, 519-536.	3.4	13
30	Topography of the Overriding Plate During Progressive Subduction: A Dynamic Model to Explain Forearc Subsidence. Geophysical Research Letters, 2017, 44, 9632-9643.	4.0	13
31	Back to the future II: tidal evolution of four supercontinent scenarios. Earth System Dynamics, 2020, 11, 291-299.	7.1	11
32	Self-replicating subduction zone initiation by polarity reversal. Communications Earth & Environment, 2022, 3, .	6.8	9
33	Weak tides during Cryogenian glaciations. Nature Communications, 2020, 11, 6227.	12.8	8
34	The variation of crustal stretching and different modes of rifting along the Australian southern continental margin. Australian Journal of Earth Sciences, 2016, 63, 159-174.	1.0	7
35	Analogue modelling of brittle shear zone propagation across upper crustal morpho-rheological heterogeneities. Journal of Structural Geology, 2019, 126, 175-197.	2.3	7
36	Are subduction zones invading the Atlantic? Evidence from the southwest Iberia margin: REPLY. Geology, 2014, 42, e329-e329.	4.4	2

#	Article	IF	Citations
37	The Climates of Earthâ€™s Next Supercontinent: Effects of Tectonics, Rotation Rate, and Insolation. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009983.	2.5	2