

Marta Perez-Gussinye

List of Publications by Citations

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37 papers	2,171 citations	23 h-index	37 g-index
37 ext. papers	2,449 ext. citations	8.7 avg, IF	5.17 L-index

#	Paper	IF	Citations
37	Rheological evolution during extension at nonvolcanic rifted margins: Onset of serpentinization and development of detachments leading to continental breakup. <i>Journal of Geophysical Research</i> , 2001 , 106, 3961-3975		231
36	Rift migration explains continental margin asymmetry and crustal hyper-extension. <i>Nature Communications</i> , 2014 , 5, 4014	17.4	217
35	Sequential faulting explains the asymmetry and extension discrepancy of conjugate margins. <i>Nature</i> , 2010 , 468, 294-9	50.4	162
34	The long-term strength of Europe and its implications for plate-forming processes. <i>Nature</i> , 2005 , 436, 381-4	50.4	129
33	Effective elastic thickness of Africa and its relationship to other proxies for lithospheric structure and surface tectonics. <i>Earth and Planetary Science Letters</i> , 2009 , 287, 152-167	5.3	119
32	Chilean flat slab subduction controlled by overriding plate thickness and trench rollback. <i>Geology</i> , 2012 , 40, 35-38	5	118
31	Mechanisms of extension at nonvolcanic margins: Evidence from the Galicia interior basin, west of Iberia. <i>Journal of Geophysical Research</i> , 2003 , 108,		118
30	The role of crustal quartz in controlling Cordilleran deformation. <i>Nature</i> , 2011 , 471, 353-7	50.4	112
29	Rifted margin architecture and crustal rheology: Reviewing Iberia-Newfoundland, Central South Atlantic, and South China Sea. <i>Marine and Petroleum Geology</i> , 2017 , 79, 257-281	4.7	103
28	The rift to drift transition at non-volcanic margins: Insights from numerical modelling. <i>Earth and Planetary Science Letters</i> , 2006 , 244, 458-473	5.3	90
27	On the recovery of effective elastic thickness using spectral methods: Examples from synthetic data and from the Fennoscandian Shield. <i>Journal of Geophysical Research</i> , 2004 , 109,		89
26	Effective elastic thickness of South America and its implications for intracontinental deformation. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	86
25	Detachment faulting, mantle serpentinization, and serpentinite- mud volcanism beneath the Porcupine Basin, southwest of Ireland. <i>Geology</i> , 2001 , 29, 587	5	65
24	Effective elastic thickness variations along the Andean margin and their relationship to subduction geometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	62
23	Fault-controlled hydration of the upper mantle during continental rifting. <i>Nature Geoscience</i> , 2016 , 9, 384-388	18.3	56
22	Lithospheric extension from rifting to continental breakup at magma-poor margins: rheology, serpentinisation and symmetry. <i>International Journal of Earth Sciences</i> , 2007 , 96, 1033-1046	2.2	44
21	Spatial variations of the effective elastic thickness, T_e , using multitaper spectral estimation and wavelet methods: Examples from synthetic data and application to South America. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	42

20	Serpentinization and magmatism during extension at non-volcanic margins: the effect of initial lithospheric structure. <i>Geological Society Special Publication</i> , 2001 , 187, 551-576	1.7	41
19	A tectonic model for hyperextension at magma-poor rifted margins: an example from the West Iberia-Newfoundland conjugate margins. <i>Geological Society Special Publication</i> , 2013 , 369, 403-427	1.7	38
18	Interrelation between rifting, faulting, sedimentation, and mantle serpentinization during continental margin formation including examples from the Norwegian Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 4351-4369	3.6	31
17	Lower Crustal Strength Controls on Melting and Serpentinization at Magma-Poor Margins: Potential Implications for the South Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 4538-4557	3.6	28
16	Decoupled crust-mantle accommodation of Africa-Eurasia convergence in the NW Moroccan margin. <i>Journal of Geophysical Research</i> , 2011 , 116,		28
15	Thermomechanical Implications of Sediment Transport for the Architecture and Evolution of Continental Rifts and Margins. <i>Tectonics</i> , 2019 , 38, 641-665	4.3	27
14	Spatial variations of effective elastic thickness of the lithosphere in Central America and surrounding regions. <i>Earth and Planetary Science Letters</i> , 2014 , 391, 55-66	5.3	23
13	Multitaper spectral method to estimate the elastic thickness of South China: Implications for intracontinental deformation. <i>Geoscience Frontiers</i> , 2014 , 5, 193-203	6	18
12	Lithospheric Strength and Rift Migration Controls on Synrift Stratigraphy and Breakup Unconformities at Rifted Margins: Examples From Numerical Models, the Atlantic and South China Sea Margins. <i>Tectonics</i> , 2020 , 39, e2020TC006255	4.3	15
11	Slip along the Sultanhanı Fault in Central Anatolia from deformed Pleistocene shorelines of palaeo-lake Konya and implications for seismic hazards in low-strain regions. <i>Geophysical Journal International</i> , 2017 , 209, 1431-1454	2.6	14
10	Geometry of extensional faults developed at slow-spreading centres from pre-stack depth migration of seismic reflection data in the Central Atlantic (Canary Basin). <i>Geophysical Journal International</i> , 2004 , 159, 591-606	2.6	13
9	The continental extension discrepancy and anomalous subsidence pattern in the western Qiongdongnan Basin, South China Sea. <i>Earth and Planetary Science Letters</i> , 2018 , 501, 180-191	5.3	13
8	A new free-surface stabilization algorithm for geodynamical modelling: Theory and numerical tests. <i>Physics of the Earth and Planetary Interiors</i> , 2015 , 246, 41-51	2.3	10
7	The Role of Crustal Strength in Controlling Magmatism and Melt Chemistry During Rifting and Breakup. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 534-550	3.6	9
6	Causes and consequences of asymmetric lateral plume flow during South Atlantic rifting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27877-27883	11.5	7
5	Serpentinization-Driven H ₂ Production From Continental Break-Up to Mid-Ocean Ridge Spreading: Unexpected High Rates at the West Iberia Margin. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	5
4	Global Whole Lithosphere Isostasy: Implications for Surface Elevations, Structure, Strength, and Densities of the Continental Lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009130	3.6	3
3	KineDyn: Thermomechanical forward method for validation of seismic interpretations and investigation of dynamics of rifts and rifted margins. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 317, 106748	2.3	3

- 2 Lateral coexistence of ductile and brittle deformation shapes magma-poor distal margins: An example from the West Iberia-Newfoundland margins. *Earth and Planetary Science Letters*, **2022**, 578, 117288 5.3 2
- 1 Oceanward rift migration during formation of Santos-Benguela ultra-wide rifted margin. *Geological Society Special Publication*, SP524-2021-123 1.7 0