

César R Ranero

List of Publications by Year in descending order

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133
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#	ARTICLE	IF	CITATIONS
1	Toward a Practical Appraisal for Waveform Tomography of Band- and Offset-Limited Marine Seismic Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	1
2	Downward continuation of marine seismic reflection data: an undervalued tool to improve velocity models. <i>Geophysical Journal International</i> , 2022, 230, 831-848.	2.4	3
3	The continent-to-ocean transition in the Iberia Abyssal Plain. <i>Geology</i> , 2022, 50, 615-619.	4.4	10
4	A first appraisal of the seismogenic and tsunamigenic potential of the largest fault systems in the westernmost Mediterranean. <i>Marine Geology</i> , 2022, 445, 106749.	2.1	1
5	Glacial-aged development of the Tunisian Coral Mound Province controlled by glacio-eustatic oscillations and changes in surface productivity. <i>Marine Geology</i> , 2022, 446, 106772.	2.1	7
6	Active Tectonics of the North Tunisian Continental Margin. <i>Tectonics</i> , 2022, 41, .	2.8	2
7	Megaâ€Depressions on the Cocos Ridge: Links Between Volcanism, Faults, Hydrothermal Circulation, and Dissolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	2
8	Extensional tectonics during the Tyrrhenian backâ€arc basin formation and a new morphoâ€tectonic map. <i>Basin Research</i> , 2021, 33, 138-158.	2.7	18
9	The evolution of the westernmost Mediterranean basins. <i>Earth-Science Reviews</i> , 2021, 214, 103445.	9.1	18
10	A new autoregressive moving average modeling of H/V spectral ratios to estimate the ground resonance frequency. <i>Engineering Geology</i> , 2021, 280, 105957.	6.3	8
11	The Structure of the Continentâ€Ocean Transition in the Gulf of Lions From Joint Refraction and Reflection Travelâ€Time Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021711.	3.4	7
12	Large slip, long duration, and moderate shaking of the Nicaragua 1992 tsunami earthquake caused by low near-trench rock rigidity. <i>Science Advances</i> , 2021, 7, .	10.3	11
13	The Rift and Continentâ€Ocean Transition Structure Under the Tagus Abyssal Plain West of the Iberia. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022629.	3.4	6
14	Recent inversion of the Tyrrhenian Basin. <i>Geology</i> , 2020, 48, 123-127.	4.4	25
15	Understanding the 3D Formation of a Wide Rift: The Central South China Sea Rift System. <i>Tectonics</i> , 2020, 39, e2019TC006040.	2.8	21
16	The Lithospheric Structure of the Gibraltar Arc System From Wideâ€Angle Seismic Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019854.	3.4	16
17	Quaternary Seismostratigraphy and Tectonosedimentary Evolution of the North Tunisian Continental Margin. <i>Tectonics</i> , 2020, 39, e2020TC006243.	2.8	10
18	Earthquake crisis unveils the growth of an incipient continental fault system. <i>Nature Communications</i> , 2019, 10, 3482.	12.8	24

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19	Seismicity and Noise Recorded by Passive Seismic Monitoring of Drilling Operations Offshore the Eastern Canary Islands. <i>Seismological Research Letters</i> , 2019, , .	1.9	6
20	Anisotropic P-wave travel-time tomography implementing Thomsen's weak approximation in TOMO3D. <i>Solid Earth</i> , 2019, 10, 1857-1876.	2.8	3
21	Upper-plate rigidity determines depth-varying rupture behaviour of megathrust earthquakes. <i>Nature</i> , 2019, 576, 96-101.	27.8	65
22	Influence of Incoming Plate Relief on Overriding Plate Deformation and Earthquake Nucleation: Cocos Ridge Subduction (Costa Rica). <i>Tectonics</i> , 2019, 38, 4360-4377.	2.8	19
23	Full-waveform inversion of short-offset, band-limited seismic data in the Alboran Basin (SE Iberia). <i>Solid Earth</i> , 2019, 10, 1833-1855.	2.8	11
24	Waveform-Preserving Processing Flow of Multichannel Seismic Reflection Data for Adjoint-State Full-Waveform Inversion of Ocean Thermohaline Structure. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1615-1625.	6.3	17
25	Enhanced Mantle Upwelling/Melting Caused Segment Propagation, Oceanic Core Complex Die Off, and the Death of a Transform Fault: The Mid-Atlantic Ridge at 21.5°N. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 941-956.	3.4	17
26	Does permanent extensional deformation in lower forearc slopes indicate shallow plate-boundary rupture?. <i>Earth and Planetary Science Letters</i> , 2018, 489, 17-27.	4.4	17
27	Appraisal of Instantaneous Phase-Based Functions in Adjoint Waveform Inversion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5185-5197.	6.3	11
28	Spatial variations of magmatic crustal accretion during the opening of the Tyrrhenian back-arc from wide-angle seismic velocity models and seismic reflection images. <i>Basin Research</i> , 2018, 30, 124-141.	2.7	13
29	Structure of oceanic crust and serpentinization at subduction trenches. , 2018, 14, 395-418.		146
30	Active Tectonics of the North Chilean Marine Forearc and Adjacent Oceanic Nazca Plate. <i>Tectonics</i> , 2018, 37, 4194-4211.	2.8	23
31	Shear heating reconciles thermal models with the metamorphic rock record of subduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11706-11711.	7.1	36
32	The Alboran volcanic-arc modulated the Messinian faunal exchange and salinity crisis. <i>Scientific Reports</i> , 2018, 8, 13015.	3.3	54
33	The Crustal Domains of the Alboran Basin (Western Mediterranean). <i>Tectonics</i> , 2018, 37, 3352-3377.	2.8	30
34	The continent-ocean transition on the northwestern South China Sea. <i>Basin Research</i> , 2017, 29, 73-95.	2.7	49
35	Active tectonics of the Calabrian subduction revealed by new multi-beam bathymetric data and high-resolution seismic profiles in the Ionian Sea (Central Mediterranean). <i>Earth and Planetary Science Letters</i> , 2017, 461, 61-72.	4.4	73
36	Micro-seismicity in the Gulf of Cadiz: Is there a link between micro-seismicity, high magnitude earthquakes and active faults?. <i>Tectonophysics</i> , 2017, 717, 226-241.	2.2	42

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37	Seismic Oceanography in the Tyrrhenian Sea: Thermohaline Staircases, Eddies, and Internal Waves. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8503-8523.	2.6	22
38	Mantle exhumation and sequence of magmatic events in the Magnaghiá“Vavilov Basin (Central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2016, 689, 133-142.	2.2	43
39	A recent phase of accretion along the southern Costa Rican subduction zone. <i>Earth and Planetary Science Letters</i> , 2016, 443, 204-215.	4.4	17
40	Fineâ€scale thermohaline ocean structure retrieved with 2â€D prestack fullâ€waveform inversion of multichannel seismic data: Application to the Gulf of Cadiz (SW Iberia). <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5452-5469.	2.6	19
41	Crustal deformation dynamics and stress evolution during seamount subduction: Highâ€resolution 3â€D numerical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6880-6902.	3.4	68
42	Geomorphology and Neogene tectonic evolution of the Palomares continental margin (Western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	2.2	20
43	Fault-controlled hydration of the upper mantle during continentalâ€rifting. <i>Nature Geoscience</i> , 2016, 9, 384-388.	12.9	75
44	Structure of the mantle beneath the <sc>A</sc>lboran <sc>B</sc>asin from magnetotelluric soundings. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4261-4274.	2.5	18
45	Compressional tectonic inversion of the Algero-Balearic basin: Latest Miocene to present oblique convergence at the Palomares margin (Western Mediterranean). <i>Tectonics</i> , 2015, 34, 1516-1543.	2.8	37
46	Fluid accumulation along the Costa Rica subduction thrust and development of the seismogenic zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 67-86.	3.4	60
47	Subducting seamounts control interplate coupling and seismic rupture in the 2014 Iquique earthquake area. <i>Nature Communications</i> , 2015, 6, 8267.	12.8	76
48	The complex 3-D transition from continental crust to backarc magmatism and exhumed mantle in the Central Tyrrhenian basin. <i>Geophysical Journal International</i> , 2015, 203, 63-78.	2.4	44
49	TOMO3D: 3-D joint refraction and reflection travelt ime tomography parallel code for active-source seismic dataâ€synthetic test. <i>Geophysical Journal International</i> , 2015, 203, 158-174.	2.4	20
50	Comparative study of objective functions to overcome noise and bandwidth limitations in full waveform inversion. <i>Geophysical Journal International</i> , 2015, 203, 632-645.	2.4	15
51	Data-driven Layer-stripping Strategy for 3-D Joint Refraction and Reflection Travel-time Tomography. , 2015, , .		0
52	Seismic structure of the Central Tyrrhenian basin: Geophysical constraints on the nature of the main crustal domains. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 52-70.	3.4	62
53	Scale- and parameter-adaptive model-based gradient pre-conditioner for elastic full-waveform inversion. <i>Geophysical Journal International</i> , 2014, 198, 1130-1142.	2.4	15
54	The West Melilla cold water coral mounds, Eastern Alboran Sea: Morphological characterization and environmental context. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 99, 316-326.	1.4	63

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55	Interplate seismicity at the CRISP drilling site: The 2002 Mw 6.4 Osa Earthquake at the southeastern end of the Middle America Trench. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3035-3050.	2.5	20
56	Origin of water layer multiple phases with anomalously high amplitude in near-seafloor wide-angle seismic recordings. <i>Geophysical Journal International</i> , 2014, 196, 243-252.	2.4	7
57	Crustal thinning in the northern Tyrrhenian Rift: Insights from multichannel and wide-angle seismic data across the basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1655-1677.	3.4	19
58	Characterization of Submarine Landslide Complexes Offshore Costa Rica: An Evolutionary Model Related to Seamount Subduction. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 381-390.	1.1	1
59	Seismic evidence of exhumed mantle rock basement at the Goringe Bank and the adjacent Horseshoe and Tagus abyssal plains (SW Iberia). <i>Earth and Planetary Science Letters</i> , 2013, 365, 120-131.	4.4	71
60	Scale- and parameter-adaptive power model-based gradient preconditioner for multi-shooting elastic full-waveform inversion. , 2013, , .		0
61	Gas Hydrates Along the Peru and Middle America Trench Systems. <i>Geophysical Monograph Series</i> , 2013, , 257-271.	0.1	12
62	Early-stage rifting of the northern Tyrrhenian Sea Basin: Results from a combined wide-angle and multichannel seismic study. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3032-3052.	2.5	41
63	High density of structurally controlled, shallow to deep water fluid seep indicators imaged offshore Costa Rica. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 519-539.	2.5	38
64	Overriding plate structure of the Nicaragua convergent margin: Relationship to the seismogenic zone of the 1992 tsunami earthquake. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3436-3461.	2.5	29
65	Characterization of thermohaline staircases in the Tyrrhenian Sea using stochastic heterogeneity mapping. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0
66	Seismic evidence of tectonic control on the depth of water influx into incoming oceanic plates at subduction trenches. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	38
67	An Overview of the Role of Long-Term Tectonics and Incoming Plate Structure on Segmentation of Submarine Mass Wasting Phenomena Along the Middle America Trench. , 2012, , 391-402.		2
68	Submarine slope failures along the convergent continental margin of the Middle America Trench. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	41
69	Active tectonics of the South Chilean marine fore arc (35°S–40°S). <i>Tectonics</i> , 2011, 30, .	2.8	52
70	Crustal structure of the propagating TAMMAR ridge segment on the Mid-Atlantic Ridge, 21.5°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	19
71	The 3-D geometry of detachment faulting at mid-ocean ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	76
72	Sequential faulting explains the asymmetry and extension discrepancy of conjugate margins. <i>Nature</i> , 2010, 468, 294-299.	27.8	192

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73	The Potential of Discontinuous Galerkin Methods for Full Waveform Tomography. , 2010, , .		1
74	Seismic structure of an oceanic core complex at the Mid-Atlantic Ridge, 22°19'N. Journal of Geophysical Research, 2010, 115, .	3.3	32
75	Thermal regime of the Costa Rican convergent margin: 1. Along-strike variations in heat flow from probe measurements and estimated from bottom-simulating reflectors. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	31
76	Thermal regime of the Costa Rican convergent margin: 2. Thermal models of the shallow Middle America subduction zone offshore Costa Rica. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	63
77	Appraisal of Joint Refraction and Reflection Travel-time Tomography in the Context of Weathering Correction. , 2010, , .		0
78	Neogene collision and deformation of convergent margins along the backbone of the Americas. , 2009, , .		8
79	Fluid seepage and mound formation offshore Costa Rica revealed by deep-towed sidescan sonar and sub-bottom profiler data. Marine Geology, 2009, 266, 172-181.	2.1	13
80	Convergent Margin Structure in High-Quality Geophysical Images and Current Kinematic and Dynamic Models. Frontiers in Earth Sciences, 2009, , 137-157.	0.1	21
81	Hydrogeological system of erosional convergent margins and its influence on tectonics and interplate seismogenesis. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	159
82	Multifrequency geoacoustic imaging of fluid escape structures offshore Costa Rica: Implications for the quantification of seep processes. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	47
83	Fluid seepage at the continental margin offshore Costa Rica and southern Nicaragua. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	123
84	Nonlinear variations of the physical properties along the southern Ecuador subduction channel: Results from depth-migrated seismic data. Earth and Planetary Science Letters, 2008, 267, 453-467.	4.4	70
85	Intra-arc extension in Central America: Links between plate motions, tectonics, volcanism, and geochemistry. Earth and Planetary Science Letters, 2008, 272, 365-371.	4.4	74
86	Birth of an intraoceanic spreading center. Geology, 2008, 36, 767.	4.4	47
87	Evidence for fluid circulation, overpressure and tectonic style along the Southern Chilean margin. Tectonophysics, 2007, 429, 183-200.	2.2	18
88	Passive and active seismological study of bending-related faulting and mantle serpentinization at the Middle America trench. Earth and Planetary Science Letters, 2007, 258, 528-542.	4.4	136
89	Crustal types and Tertiary tectonic evolution of the Alborán sea, western Mediterranean. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	143
90	9. The Nicaragua Convergent Margin. , 2007, , 257-287.		24

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91	Tectonic Processes along the Chile Convergent Margin. <i>Frontiers in Earth Sciences</i> , 2006, , 91-121.	0.1	56
92	The rift to drift transition at non-volcanic margins: Insights from numerical modelling. <i>Earth and Planetary Science Letters</i> , 2006, 244, 458-473.	4.4	111
93	The Seismogenic Zone Experiment. <i>Oceanography</i> , 2006, 19, 28-38.	1.0	11
94	Interplate patchiness and subduction-erosion mechanisms: Evidence from depth-migrated seismic images at the central Ecuador convergent margin. <i>Geology</i> , 2006, 34, 997.	4.4	98
95	Styles and Productivity of Mud Diapirism along the Middle American Margin. , 2005, , 49-76.		14
96	Structure and tectonics of the erosional convergent margin off Antofagasta, north Chile (23°30'S). <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	78
97	Heat flow and bending-related faulting at subduction trenches: Case studies offshore of Nicaragua and Central Chile. <i>Earth and Planetary Science Letters</i> , 2005, 236, 238-248.	4.4	108
98	Reply to A. Glikson's comment on "Contemporaneous mass extinctions, continental flood basalts, and impact signals": Are mantle plume-induced lithospheric gas explosions the causal link? [EPSL 217 (2004) 263-285]. <i>Earth and Planetary Science Letters</i> , 2005, 236, 938-941.		1
99	Relationship between bend-faulting at trenches and intermediate-depth seismicity. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	256
100	Long-term subduction-erosion along the Guatemalan margin of the Middle America Trench. <i>Geology</i> , 2004, 32, 617.	4.4	74
101	Geophysical evidence for hydration of the crust and mantle of the Nazca plate during bending at the north Chile trench. <i>Geology</i> , 2004, 32, 549.	4.4	162
102	Seismic images and magnetic signature of the Late Jurassic to Early Cretaceous Africa-Eurasia plate boundary off SW Iberia. <i>Geophysical Journal International</i> , 2004, 158, 554-568.	2.4	50
103	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.	2.4	14
104	Tsunamigenic slope failure along the Middle America Trench in two tectonic settings. <i>Marine Geology</i> , 2004, 203, 303-317.	2.1	99
105	Generic model of subduction erosion. <i>Geology</i> , 2004, 32, 913.	4.4	312
106	Focusing on proto-seismogenic zone of erosional convergent margin. <i>Eos</i> , 2004, 85, 70.	0.1	0
107	Contemporaneous mass extinctions, continental flood basalts, and impact signals: are mantle plume-induced lithospheric gas explosions the causal link?. <i>Earth and Planetary Science Letters</i> , 2004, 217, 263-284.	4.4	88
108	Fluid expulsion related to mud extrusion off Costa Rica: A window to the subducting slab. <i>Geology</i> , 2004, 32, 201.	4.4	221

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109	Bending-related faulting and mantle serpentinization at the Middle America trench. <i>Nature</i> , 2003, 425, 367-373.	27.8	828
110	Mechanisms of extension at nonvolcanic margins: Evidence from the Galicia interior basin, west of Iberia. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	133
111	Subduction erosion and basal friction along the sediment-starved convergent margin off Antofagasta, Chile. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	174
112	Fast rates of subduction erosion along the Costa Rica Pacific margin: Implications for nonsteady rates of crustal recycling at subduction zones. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	115
113	Heat flow over the descending Nazca plate in central Chile, 32°S to 41°S: observations from ODP Leg 202 and the occurrence of natural gas hydrates. <i>Earth and Planetary Science Letters</i> , 2003, 213, 285-298.	4.4	68
114	The Challengerâ€“Juan FernÃ¡ndezâ€“Maipo major tectonic transition of the Nazcaâ€“Andean subduction system at 33â€“34°S: geodynamic evidence and implications. <i>Journal of South American Earth Sciences</i> , 2002, 15, 23-38.	1.4	143
115	Pre-Permian sedimentary basins in the North Sea: images from reprocessed and pre-stack depth migrated MONA LISA data. <i>Marine and Petroleum Geology</i> , 2002, 19, 519-526.	3.3	5
116	Revised tectonic boundaries in the Cocos Plate off Costa Rica: Implications for the segmentation of the convergent margin and for plate tectonic models. <i>Journal of Geophysical Research</i> , 2001, 106, 19207-19220.	3.3	253
117	Magnetic anomaly interpretation across the southern central Andes (32°-34°S): The role of the Juan FernÃ¡ndez Ridge in the late Tertiary evolution of the margin. <i>Journal of Geophysical Research</i> , 2001, 106, 6325-6345.	3.3	323
118	Crustal structure across the Pacific margin of Nicaragua: evidence for ophiolitic basement and a shallow mantle sliver. <i>Geophysical Journal International</i> , 2000, 141, 759-777.	2.4	84
119	Subduction erosion along the Middle America convergent margin. <i>Nature</i> , 2000, 404, 748-752.	27.8	494
120	Quaternary convergent margin tectonics of Costa Rica, segmentation of the Cocos Plate, and Central American volcanism. <i>Tectonics</i> , 2000, 19, 314-334.	2.8	276
121	A cross section of the convergent Pacific margin of Nicaragua. <i>Tectonics</i> , 2000, 19, 335-357.	2.8	101
122	Detachment faulting at ocean core complexes. <i>Geology</i> , 1999, 27, 983.	4.4	65
123	Drowned 14-m.y.-old GalÃ¡pagos archipelago off the coast of Costa Rica: Implications for tectonic and evolutionary models. <i>Geology</i> , 1999, 27, 499.	4.4	133
124	The structure of Cretaceous oceanic crust of the NW Pacific: Constraints on processes at fast spreading centers. <i>Journal of Geophysical Research</i> , 1999, 104, 629-644.	3.3	31
125	The nature and distribution of bottom simulating reflectors at the Costa Rican convergent margin. <i>Geophysical Journal International</i> , 1998, 133, 219-229.	2.4	67
126	Reflective oceanic crust formed at a fast-spreading center in the Pacific. <i>Geology</i> , 1997, 25, 499.	4.4	49

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127	The crustal structure of the Canary Basin: Accretion processes at slow spreading centers. Journal of Geophysical Research, 1997, 102, 10185-10201.	3.3	39
128	Tectonic control of the subducting Juan FernÁndez Ridge on the Andean margin near Valparaiso, Chile. Tectonics, 1997, 16, 474-488.	2.8	153
129	Tectonic structure of the convergent Pacific margin offshore Costa Rica from multichannel seismic reflection data. Tectonics, 1996, 15, 54-66.	2.8	85
130	Detachment and steep normal faulting in Atlantic oceanic crust west of Africa. Geology, 1996, 24, 811.	4.4	9
131	Gravity and multichannel seismic reflection constraints on the lithospheric structure of the Canary Swell. Marine Geophysical Researches, 1995, 17, 519-534.	1.2	60
132	Seismic boundaries of the eastern Central Atlantic Mesozoic crust from multichannel seismic data. Bulletin of the Geological Society of America, 1992, 104, 1340-1349.	3.3	39
133	Drilling the Seismogenic Zone of an Erosional Convergent Margin: IODP Costa Rica Seismogenesis Project CRISP. Scientific Drilling, 0, SpecialIssue, 51-54.	0.6	4