

Sylvie Leroy

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101
papers

3,096
citations

34
h-index

51
g-index

124
ext. papers

3,503
ext. citations

3.9
avg, IF

5.01
L-index

#	Paper	IF	Citations
101	Dual continental rift systems generated by plume-lithosphere interaction. <i>Nature Geoscience</i> , 2015 , 8, 388-392	18.3	139
100	Seismic stratigraphy and structure of the Caribbean igneous province. <i>Tectonophysics</i> , 1997 , 283, 61-104	3.1	129
99	Diverse styles of submarine venting on the ultraslow spreading Mid-Cayman Rise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14020-5	11.5	108
98	An alternative interpretation of the Cayman trough evolution from a reidentification of magnetic anomalies. <i>Geophysical Journal International</i> , 2000 , 141, 539-557	2.6	108
97	From rifting to oceanic spreading in the Gulf of Aden: a synthesis. <i>Arabian Journal of Geosciences</i> , 2012 , 5, 859-901	1.8	96
96	Structure and evolution of the eastern Gulf of Aden conjugate margins from seismic reflection data. <i>Geophysical Journal International</i> , 2005 , 160, 869-890	2.6	88
95	From rifting to spreading in the eastern Gulf of Aden: a geophysical survey of a young oceanic basin from margin to margin. <i>Terra Nova</i> , 2004 , 16, 185-192	3	84
94	The role of structural inheritance in oblique rifting: Insights from analogue models and application to the Gulf of Aden. <i>Tectonophysics</i> , 2013 , 607, 51-64	3.1	82
93	Arabia-Somalia plate kinematics, evolution of the Aden-Owen-Carlsberg triple junction, and opening of the Gulf of Aden. <i>Journal of Geophysical Research</i> , 2010 , 115,		82
92	Continental break-up history of a deep magma-poor margin based on seismic reflection data (northeastern Gulf of Aden margin, offshore Oman). <i>Geophysical Journal International</i> , 2010 , 180, 501-519	3.6	79
91	Contrasted styles of rifting in the eastern Gulf of Aden: A combined wide-angle, multichannel seismic, and heat flow survey. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11, n/a-n/a	3.6	67
90	Numerical modelling of a mantle plume: the plume head-lithosphere interaction in the formation of an oceanic large igneous province. <i>Earth and Planetary Science Letters</i> , 2003 , 206, 379-396	5.3	67
89	Continental breakup and the dynamics of rifting in back-arc basins: The Gulf of Lion margin. <i>Tectonics</i> , 2015 , 34, 662-679	4.3	66
88	Structure and evolution of the eastern Gulf of Aden: insights from magnetic and gravity data (Encens-Sheba MD117 cruise). <i>Geophysical Journal International</i> , 2006 , 165, 786-803	2.6	64
87	Recent off-axis volcanism in the eastern Gulf of Aden: Implications for plume-edge interaction. <i>Earth and Planetary Science Letters</i> , 2010 , 293, 140-153	5.3	62
86	Fault reactivation and rift localization: Northeastern Gulf of Aden margin. <i>Tectonics</i> , 2006 , 25, n/a-n/a	4.3	60
85	Modes of rifting in magma-rich settings: Tectono-magmatic evolution of Central Afar. <i>Tectonics</i> , 2016 , 35, 2-38	4.3	58

84	Pre-existing oblique transfer zones and transfer/transform relationships in continental margins: New insights from the southeastern Gulf of Aden, Socotra Island, Yemen. <i>Tectonophysics</i> , 2013 , 607, 32-50	3.1	55
83	Intrusion and its implication for subsidence: A case from the Baiyun Sag, on the northern margin of the South China Sea. <i>Tectonophysics</i> , 2005 , 407, 117-134	3.1	55
82	Persistent thermal activity at the Eastern Gulf of Aden after continental break-up. <i>Nature Geoscience</i> , 2008 , 1, 854-858	18.3	54
81	Reappraisal of the Arabia-India-Somalia triple junction kinematics. <i>Earth and Planetary Science Letters</i> , 2001 , 189, 103-114	5.3	49
80	Oceanic core complex development at the ultraslow spreading Mid-Cayman Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	48
79	Contrasted continental rifting via plume-craton interaction: Applications to Central East African Rift. <i>Geoscience Frontiers</i> , 2016 , 7, 221-236	6	47
78	Analog models of oblique rifting in a cold lithosphere. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	46
77	Plate boundary readjustment in oblique convergence: Example of the Neogene of Hispaniola, Greater Antilles. <i>Tectonics</i> , 2000 , 19, 630-648	4.3	46
76	Volcanism, jump and propagation on the Sheba ridge, eastern Gulf of Aden: segmentation evolution and implications for oceanic accretion processes. <i>Geophysical Journal International</i> , 2010 , 180, 535-551	2.6	44
75	On spreading modes and magma supply at slow and ultraslow mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2019 , 519, 223-233	5.3	43
74	Post-rift volcanism and high heat-flow at the ocean-continent transition of the eastern Gulf of Aden. <i>Terra Nova</i> , 2009 , 21, 285-292	3	42
73	Multiple mantle upwellings in the transition zone beneath the northern East-African Rift system from relative P-wave travel-time tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 2949-2968	3.6	40
72	Architecture of rifted continental margins and break-up evolution: insights from the South Atlantic, North Atlantic and Red Sea-Gulf of Aden conjugate margins. <i>Geological Society Special Publication</i> , 2013 , 369, 497-535	1.7	40
71	The initiation of segmented buoyancy-driven melting during continental breakup. <i>Nature Communications</i> , 2016 , 7, 13110	17.4	35
70	Crustal geometry of the northeastern Gulf of Aden passive margin: localization of the deformation inferred from receiver function analysis. <i>Geophysical Journal International</i> , 2007 , 168, 1247-1260	2.6	35
69	Middle Eocene-Early Miocene larger foraminifera from Dhofar (Oman) and Socotra Island (Yemen). <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	35
68	The crustal structure of the north-eastern Gulf of Aden continental margin: insights from wide-angle seismic data. <i>Geophysical Journal International</i> , 2011 , 184, 575-594	2.6	34
67	A genetic link between transform and hyper-extended margins. <i>Earth and Planetary Science Letters</i> , 2017 , 465, 184-192	5.3	33

66	Crustal structure of the rifted volcanic margins and uplifted plateau of Western Yemen from receiver function analysis. <i>Geophysical Journal International</i> , 2013 , 193, 1673-1690	2.6	33
65	Plume-induced continental rifting and break-up in ultra-slow extension context: Insights from 3D numerical modeling. <i>Tectonophysics</i> , 2018 , 746, 121-137	3.1	32
64	The effect of thermal weakening and buoyancy forces on rift localization: Field evidences from the Gulf of Aden oblique rifting. <i>Tectonophysics</i> , 2013 , 607, 80-97	3.1	31
63	Segmentation and kinematics of the North America-Caribbean plate boundary offshore Hispaniola. <i>Terra Nova</i> , 2015 , 27, 467-478	3	30
62	Heat-flow and hydrothermal circulation at the ocean-continent transition of the eastern gulf of Aden. <i>Earth and Planetary Science Letters</i> , 2010 , 295, 554-570	5.3	28
61	The Paleogene pre-rift to syn-rift succession in the Dhofar margin (northeastern Gulf of Aden): Stratigraphy and depositional environments. <i>Tectonophysics</i> , 2013 , 607, 1-16	3.1	27
60	New heat flow measurements in Oman and the thermal state of the Arabian Shield and Platform. <i>Tectonophysics</i> , 2013 , 589, 77-89	3.1	26
59	Buoyancy and localizing properties of continental mantle lithosphere: Insights from thermomechanical models of the eastern Gulf of Aden. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 2800-2817	3.6	26
58	Extensional crustal tectonics and crust-mantle coupling, a view from the geological record. <i>Earth-Science Reviews</i> , 2018 , 185, 1187-1209	10.2	26
57	Evidence of partial melting beneath a continental margin: case of Dhofar, in the Northeast Gulf of Aden (Sultanate of Oman). <i>Geophysical Journal International</i> , 2010 , 180, 520-534	2.6	23
56	Two-Branch Break-up Systems by a Single Mantle Plume: Insights from Numerical Modeling. <i>Geophysical Research Letters</i> , 2017 , 44, 9589-9597	4.9	22
55	Segmentation and along-strike asymmetry of the passive margin in Socotra, eastern Gulf of Aden: Are they controlled by detachment faults?. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	22
54	Intraplate deformation in the caribbean region. <i>Journal of Geodynamics</i> , 1996 , 21, 113-122	2.2	21
53	Chapter 21 Neogene intraplate deformation of the caribbean plate at the beata ridge. <i>Sedimentary Basins of the World</i> , 1999 , 627-669		20
52	Polyphase rifting and break-up of the central Mozambique margin. <i>Marine and Petroleum Geology</i> , 2019 , 100, 412-433	4.7	20
51	Afar triple junction triggered by plume-assisted bi-directional continental break-up. <i>Scientific Reports</i> , 2018 , 8, 14742	4.9	20
50	Crustal structure of western Hispaniola (Haiti) from a teleseismic receiver function study. <i>Tectonophysics</i> , 2017 , 709, 9-19	3.1	18
49	Tectono-sedimentary evolution of the eastern Gulf of Aden conjugate passive margins: Narrowness and asymmetry in oblique rifting context. <i>Tectonophysics</i> , 2017 , 721, 322-348	3.1	18

48	The Cryogenian arc formation and successive high-K calc-alkaline plutons of Socotra Island (Yemen). <i>Arabian Journal of Geosciences</i> , 2012 , 5, 903-924	1.8	18
47	How transpressive is the northern Caribbean plate boundary?. <i>Tectonics</i> , 2016 , 35, 1032-1046	4.3	18
46	Prolonged Magmatic and Tectonic Development of the Caribbean Igneous Province Revealed by a Diving Submersible Survey. <i>Marine Geophysical Researches</i> , 2001 , 22, 17-45	2.3	17
45	Small-scale thermal upwellings under the northern East African Rift from S travel time tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7395-7408	3.6	17
44	Crustal and upper mantle structure beneath south-western margin of the Arabian Peninsula from teleseismic tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2850-2864	3.6	16
43	Uppermost mantle velocity from Pn tomography in the Gulf of Aden 2014 , 10, 958-968		16
42	Post-rift uplift of the Dhofar margin (Gulf of Aden). <i>Terra Nova</i> , 2011 , 23, 11-18	3	16
41	Gondwana breakup: Messages from the North Natal Valley. <i>Terra Nova</i> , 2020 , 32, 205-214	3	16
40	Non-uniform splitting of a single mantle plume by double cratonic roots: Insight into the origin of the central and southern East African Rift System. <i>Terra Nova</i> , 2018 , 30, 125-134	3	16
39	Imaging Lithospheric Discontinuities Beneath the Northern East African Rift Using -to- Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 4048-4062	3.6	16
38	The northern Caribbean plate boundary in the Jamaica Passage: Structure and seismic stratigraphy. <i>Tectonophysics</i> , 2016 , 675, 209-226	3.1	15
37	Quasi-3-D Seismic Reflection Imaging and Wide-Angle Velocity Structure of Nearly Amagmatic Oceanic Lithosphere at the Ultraslow-Spreading Southwest Indian Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 9511-9533	3.6	15
36	The Tectonics and Active Faulting of Haiti from Seismicity and Tomography. <i>Tectonics</i> , 2019 , 38, 1138-1155	4.5	14
35	Magmatism on rift flanks: Insights from ambient noise phase velocity in Afar region. <i>Geophysical Research Letters</i> , 2015 , 42, 2179-2188	4.9	14
34	Crustal structure of the Gulf of Aden southern margin: Evidence from receiver functions on Socotra Island (Yemen). <i>Tectonophysics</i> , 2014 , 637, 251-267	3.1	14
33	Seafloor spreading event in western Gulf of Aden during the November 2010-March 2011 period captured by regional seismic networks: evidence for diking events and interactions with a nascent transform zone. <i>Geophysical Journal International</i> , 2016 , 205, 1244-1266	2.6	14
32	Evidence for magma entrapment below oceanic crust from deep seismic reflections in the Western Somali Basin. <i>Geology</i> , 2016 , 44, 407-410	5	13
31	Along-Axis Variations of Rift Width in a Coupled Lithosphere-Mantle System, Application to East Africa. <i>Geophysical Research Letters</i> , 2018 , 45, 5362-5370	4.9	13

30	Polyphase Tectonic Evolution of Fore-Arc Basin Related to STEP Fault as Revealed by Seismic Reflection Data From the Alboran Sea (W-Mediterranean). <i>Tectonics</i> , 2020 , 39, e2019TC005885	4.3	12
29	Plume-Induced Breakup of a Subducting Plate: Microcontinent Formation Without Cessation of the Subduction Process. <i>Geophysical Research Letters</i> , 2019 , 46, 3663-3675	4.9	11
28	Central Gulf of Aden conjugate margins (Yemen-Somalia): Tectono-sedimentary and magmatism evolution in hybrid-type margins. <i>Marine and Petroleum Geology</i> , 2019 , 105, 100-123	4.7	11
27	Upper mantle structure of the southern Arabian margin: Insights from teleseismic tomography 2015 , 11, 1262-1278		11
26	From rifting to oceanic spreading in the Gulf of Aden: A synthesis. <i>Frontiers in Earth Sciences</i> , 2013 , 385-427	4.7	11
25	Structural control of basement denudation during rifting revealed by low-temperature (U-Th/Sm)/He thermochronology of the Socotra Island basement Southern Gulf of Aden margin. <i>Tectonophysics</i> , 2013 , 607, 17-31	3.1	10
24	Magmatism at continental passive margins inferred from Ambient-Noise Phase-velocity in the Gulf of Aden. <i>Terra Nova</i> , 2016 , 28, 19-26	3	10
23	Oceanic basement roughness alongside magma-poor rifted margins: insight into initial seafloor spreading. <i>Geophysical Journal International</i> , 2018 , 212, 900-915	2.6	9
22	Polyphase tectonic history of the Southern Peninsula, Haiti: from folding-and-thrusting to transpressive strike-slip. <i>Tectonophysics</i> , 2019 , 751, 125-149	3.1	9
21	Is the local seismicity in western Hispaniola (Haiti) capable of imaging northern Caribbean subduction? 2019 , 15, 1738-1750		8
20	Deep Structure of the North Natal Valley (Mozambique) Using Combined Wide-Angle and Reflection Seismic Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021171	3.6	7
19	Along-strike segmentation in the northern Caribbean plate boundary zone (Hispaniola sector): Tectonic implications. <i>Tectonophysics</i> , 2020 , 776, 228322	3.1	5
18	Upper mantle anisotropy of southeast Arabia passive margin [Gulf of Aden northern conjugate margin], Oman. <i>Arabian Journal of Geosciences</i> , 2012 , 5, 925-934	1.8	5
17	Migration Velocity Analysis Based On Common-Shot-Depth Migration Applied to the Seismic Data of the Caribbean Oceanic Plateau. <i>Geophysical Journal International</i> , 1996 , 125, 199-213	2.6	5
16	The Limpopo magma-rich transform margin, South Mozambique [Part 1: Insights from deep-structure seismic imaging. <i>Tectonics</i> , e2021TC006915	4.3	4
15	Deep submarine landslide contribution to the 2010 Haiti earthquake tsunami. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 2055-2065	3.9	4
14	The Limpopo Magma-Rich Transform Margin, South Mozambique [2: Implications for the Gondwana Breakup. <i>Tectonics</i> , 2021 , 40, e2021TC006914	4.3	3
13	The Cryogenian Arc Formation and successive High-K calc-alkaline plutons of Socotra Island (Yemen). <i>Frontiers in Earth Sciences</i> , 2013 , 335-360	1.6	3

12	Internal Structure of the Oceanic Lithosphere at a Melt-Starved Ultraslow-Spreading Mid-Ocean Ridge: Insights From 2-D Seismic Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008540	3.6	3
11	Lower Crustal Earthquakes in the March 2018 Sequence Along the Western Margin of Afar. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2020GC009614	3.6	3
10	Spatial Variations in Crustal and Mantle Anisotropy Across the North American-Caribbean Boundary on Haiti. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018438	3.6	2
9	Une coupe de la province volcanique Caraïbe : premiers résultats de la campagne sismique Casis 2. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 2001 , 333, 659-667		2
8	Heat flow estimates offshore Haiti in the Caribbean plate. <i>Terra Nova</i> , 2020 , 32, 179-186	3	1
7	Seismic Velocity Structure Along and Across the Ultraslow-Spreading Southwest Indian Ridge at 64°30'E Showcases Flipping Detachment Faults. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022177	3.6	1
6	Plate-Boundary Kinematics of the Afrera Linkage Zone (Afar) From InSAR and Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021387	3.6	0
5	Across and along-strike crustal structure variations of the western Afar margin and adjacent plateau: Insights from receiver functions analysis. <i>Journal of African Earth Sciences</i> , 2022 , 192, 104570	2.2	0
4	Upper mantle anisotropy of Southeast Arabia passive margin [Gulf of Aden Northern conjugate margin], Oman. <i>Frontiers in Earth Sciences</i> , 2013 , 429-438	1.6	
3	Seismic Ambient Noise Imaging of a Quasi-Amagmatic Ultra-Slow Spreading Ridge. <i>Remote Sensing</i> , 2021 , 13, 2811	5	
2	Polyphase Deformation and Strain Migration on the Septentrional-Oriente Fault Zone in the Windward Passage, Northern Caribbean Plate Boundary. <i>Tectonics</i> , 2021 , 40, e2021TC006802	4.3	
1	The Continental Margins of the Gulf of Aden 2022 , 93-106		