

Sylvie Leroy

List of Publications by Year in descending order

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107
papers

3,944
citations

94381

37
h-index

138417

58
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124
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124
docs citations

124
times ranked

2484
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual continental rift systems generated by plume–lithosphere interaction. <i>Nature Geoscience</i> , 2015, 8, 388-392.	5.4	176
2	Seismic stratigraphy and structure of the Caribbean igneous province. <i>Tectonophysics</i> , 1997, 283, 61-104.	0.9	149
3	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, 14020-14025.	3.3	140
4	An alternative interpretation of the Cayman trough evolution from a reidentification of magnetic anomalies. <i>Geophysical Journal International</i> , 2000, 141, 539-557.	1.0	133
5	From rifting to oceanic spreading in the Gulf of Aden: a synthesis. <i>Arabian Journal of Geosciences</i> , 2012, 5, 859-901.	0.6	124
6	Structure and evolution of the eastern Gulf of Aden conjugate margins from seismic reflection data. <i>Geophysical Journal International</i> , 2005, 160, 869-890.	1.0	103
7	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, .	3.3	101
8	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.	0.9	99
9	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.	0.9	96
10	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.	1.0	90
11	Continental breakup and the dynamics of rifting in back-arc basins: The Gulf of Lion margin. <i>Tectonics</i> , 2015, 34, 662-679.	1.3	80
12	Modes of rifting in magma-rich settings: Tectono-magmatic evolution of Central Afar. <i>Tectonics</i> , 2016, 35, 2-38.	1.3	76
13	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, .	1.0	75
14	Fault reactivation and rift localization: Northeastern Gulf of Aden margin. <i>Tectonics</i> , 2006, 25, n/a-n/a.	1.3	73
15	Recent off-axis volcanism in the eastern Gulf of Aden: Implications for plume–ridge interaction. <i>Earth and Planetary Science Letters</i> , 2010, 293, 140-153.	1.8	72
16	On spreading modes and magma supply at slow and ultraslow mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2019, 519, 223-233.	1.8	72
17	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.	1.8	71
18	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.	1.0	70

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19	Contrasted continental rifting via plume-craton interaction: Applications to Central East African Rift. <i>Geoscience Frontiers</i> , 2016, 7, 221-236.	4.3	68
20	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.	0.9	65
21	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.	0.9	62
22	Plate boundary readjustment in oblique convergence: Example of the Neogene of Hispaniola, Greater Antilles. <i>Tectonics</i> , 2000, 19, 630-648.	1.3	60
23	Oceanic core complex development at the ultraslow spreading Mid-Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	1.0	59
24	Persistent thermal activity at the Eastern Gulf of Aden after continental break-up. <i>Nature Geoscience</i> , 2008, 1, 854-858.	5.4	57
25	Reappraisal of the Arabia-India-Somalia triple junction kinematics. <i>Earth and Planetary Science Letters</i> , 2001, 189, 103-114.	1.8	56
26	Analog models of oblique rifting in a cold lithosphere. <i>Tectonics</i> , 2010, 29, n/a-n/a.	1.3	54
27	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.	0.8	52
28	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.	1.0	52
29	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.	0.9	47
30	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.	1.0	47
31	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.	1.0	47
32	Middle Eocene-Early Miocene larger foraminifera from Dhofar (Oman) and Socotra Island (Yemen). <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	47
33	The initiation of segmented buoyancy-driven melting during continental breakup. <i>Nature Communications</i> , 2016, 7, 13110.	5.8	47
34	A genetic link between transform and hyper-extended margins. <i>Earth and Planetary Science Letters</i> , 2017, 465, 184-192.	1.8	43
35	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.	1.0	42
36	Plume-induced continental rifting and break-up in ultra-slow extension context: Insights from 3D numerical modeling. <i>Tectonophysics</i> , 2018, 746, 121-137.	0.9	42

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37	Segmentation and kinematics of the North America–Caribbean plate boundary offshore Hispaniola. <i>Terra Nova</i> , 2015, 27, 467-478.	0.9	41
38	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.	1.0	38
39	Extensional crustal tectonics and crust-mantle coupling, a view from the geological record. <i>Earth-Science Reviews</i> , 2018, 185, 1187-1209.	4.0	36
40	New heat flow measurements in Oman and the thermal state of the Arabian Shield and Platform. <i>Tectonophysics</i> , 2013, 589, 77-89.	0.9	35
41	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.	0.9	34
42	Imaging Lithospheric Discontinuities Beneath the Northern East African Rift Using <i>S/P</i> Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4048-4062.	1.0	33
43	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.	1.8	31
44	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.	1.0	30
45	Afar triple junction triggered by plume-assisted bi-directional continental break-up. <i>Scientific Reports</i> , 2018, 8, 14742.	1.6	30
46	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.	0.9	29
47	Crustal structure of western Hispaniola (Haiti) from a teleseismic receiver function study. <i>Tectonophysics</i> , 2017, 709, 9-19.	0.9	29
48	Two-Branch Break-up Systems by a Single Mantle Plume: Insights from Numerical Modeling. <i>Geophysical Research Letters</i> , 2017, 44, 9589-9597.	1.5	28
49	Polyphase rifting and break-up of the central Mozambique margin. <i>Marine and Petroleum Geology</i> , 2019, 100, 412-433.	1.5	28
50	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.	1.0	27
51	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.	1.0	27
52	Gondwana breakup: Messages from the North Natal Valley. <i>Terra Nova</i> , 2020, 32, 205-214.	0.9	27
53	Chapter 21 Neogene intraplate deformation of the caribbean plate at the beata ridge. <i>Sedimentary Basins of the World</i> , 1999, , 627-669.	0.2	25
54	How transpressive is the northern Caribbean plate boundary?. <i>Tectonics</i> , 2016, 35, 1032-1046.	1.3	24

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55	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.	0.9	23
56	Quasi-3D 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.	1.4	23
57	Intraplate deformation in the caribbean region. <i>Journal of Geodynamics</i> , 1996, 21, 113-122.	0.7	22
58	Small-scale thermal upwellings under the northern East African Rift from <i>S</i> travel time tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7395-7408.	1.4	22
59	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.	0.9	22
60	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.	1.5	22
61	Magmatism on rift flanks: Insights from ambient noise phase velocity in Afar region. <i>Geophysical Research Letters</i> , 2015, 42, 2179-2188.	1.5	21
62	Title is missing!. <i>Marine Geophysical Researches</i> , 2001, 22, 17-45.	0.5	20
63	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.	1.0	20
64	The northern Caribbean plate boundary in the Jamaica Passage: Structure and seismic stratigraphy. <i>Tectonophysics</i> , 2016, 675, 209-226.	0.9	20
65	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.	1.5	20
66	The Tectonics and Active Faulting of Haiti from Seismicity and Tomography. <i>Tectonics</i> , 2019, 38, 1138-1155.	1.3	20
67	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.	0.6	19
68	Evidence for magma entrapment below oceanic crust from deep seismic reflections in the Western Somali Basin. <i>Geology</i> , 2016, 44, 407-410.	2.0	19
69	Plume-Induced Breakup of a Subducting Plate: Microcontinent Formation Without Cessation of the Subduction Process. <i>Geophysical Research Letters</i> , 2019, 46, 3663-3675.	1.5	19
70	Uppermost mantle velocity from Pn tomography in the Gulf of Aden. , 2014, 10, 958-968.		18
71	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.	1.0	18
72	Post-rift uplift of the Dhofar margin (Gulf of Aden). <i>Terra Nova</i> , 2011, 23, 11-18.	0.9	17

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73	Crustal structure of the Gulf of Aden southern margin: Evidence from receiver functions on Socotra Island (Yemen). <i>Tectonophysics</i> , 2014, 637, 251-267.	0.9	17
74	Present-day Motion of the Arabian Plate. <i>Tectonics</i> , 2022, 41, .	1.3	17
75	Polyphase Tectonic Evolution of Fore-Arc Basin Related to STEP Fault as Revealed by Seismic Reflection Data From the Alboran Sea (Western Mediterranean). <i>Tectonics</i> , 2020, 39, e2019TC005885.	1.3	16
76	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.	0.9	15
77	From rifting to oceanic spreading in the Gulf of Aden: A synthesis. <i>Frontiers in Earth Sciences</i> , 2013, , 385-427.	0.1	15
78	Is the local seismicity in western Hispaniola (Haiti) capable of imaging northern Caribbean subduction?. , 2019, 15, 1738-1750.		14
79	Along-strike segmentation in the northern Caribbean plate boundary zone (Hispaniola sector): Tectonic implications. <i>Tectonophysics</i> , 2020, 776, 228322.	0.9	14
80	Polyphase tectonic history of the Southern Peninsula, Haiti: from folding-and-thrusting to transpressive strike-slip. <i>Tectonophysics</i> , 2019, 751, 125-149.	0.9	13
81	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.	1.4	13
82	Oceanic basement roughness alongside magma-poor rifted margins: insight into initial seafloor spreading. <i>Geophysical Journal International</i> , 2018, 212, 900-915.	1.0	12
83	Upper mantle structure of the southern Arabian margin: Insights from teleseismic tomography. , 2015, 11, 1262-1278.		11
84	Magmatism at continental passive margins inferred from Ambient Noise Phase-velocity in the Gulf of Aden. <i>Terra Nova</i> , 2016, 28, 19-26.	0.9	11
85	The Limpopo Magma-Rich Transform Margin, South Mozambique: 1. Insights From Deep-Structure Seismic Imaging. <i>Tectonics</i> , 2021, 40, e2021TC006915.	1.3	10
86	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.	1.4	9
87	The Limpopo Magma-Rich Transform Margin, South Mozambique - 2: Implications for the Gondwana Breakup. <i>Tectonics</i> , 2021, 40, e2021TC006914.	1.3	9
88	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.	1.0	8
89	Lower Crustal Earthquakes in the March 2018 Sequence Along the Western Margin of Afar. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009614.	1.0	8
90	Plate-Boundary Kinematics of the Afara Linkage Zone (Afar) From InSAR and Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021387.	1.4	8

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91	Deep submarine landslide contribution to the 2010 Haiti earthquake tsunami. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2055-2065.	1.5	8
92	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.	0.6	7
93	Structural and Tectonic Evolution of the Eastern Cayman Trough (Caribbean Sea) From Seismic Reflection Data. <i>AAPG Bulletin</i> , 1996, 80, .	0.7	6
94	Margin-to-Margin Seafloor Spreading in the Eastern Gulf of Aden: A 16 Ma-Long History of Deformation and Magmatism from Seismic Reflection, Gravity and Magnetic Data. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	6
95	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.	1.0	5
96	Upper mantle anisotropy of Southeast Arabia passive margin [Gulf of Aden Northern conjugate margin], Oman. <i>Frontiers in Earth Sciences</i> , 2013, , 429-438.	0.1	5
97	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.	0.9	5
98	Spatial Variations in Crustal and Mantle Anisotropy Across the North Americanâ€Caribbean Boundary on Haiti. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018438.	1.4	3
99	The Cryogenian Arc formation and successive High-K calc-alkaline plutons of Socotra Island (Yemen). <i>Frontiers in Earth Sciences</i> , 2013, , 335-360.	0.1	3
100	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.	0.2	2
101	Polyphase Deformation and Strain Migration on the Septentrionalâ€Oriente Fault Zone in the Windward Passage, Northern Caribbean Plate Boundary. <i>Tectonics</i> , 2021, 40, e2021TC006802.	1.3	2
102	Gondwana breakâ€up controlled by tectonic inheritance and mantle plume activity: Insights from Natal rift development (South Mozambique, Africa). <i>Terra Nova</i> , 2022, 34, 290-304.	0.9	2
103	Heat flow estimates offshore Haiti in the Caribbean plate. <i>Terra Nova</i> , 2020, 32, 179-186.	0.9	1
104	Seismic Ambient Noise Imaging of a Quasi-Amagmatic Ultra-Slow Spreading Ridge. <i>Remote Sensing</i> , 2021, 13, 2811.	1.8	1
105	Images of the East African Rift System by Global Adaptiveâ€Resolution Surfaceâ€Wave Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	1
106	Mass wasting and canyon formation in the light of climate and tectonics: Insights from the Gulf of Aden rifted margin. , 2011, , .		0
107	3D Modeling of the Deep Structures of Distal Rifted Margins. , 2017, , .		0