Louis GÃ©li

List of Publications by Year
in descending order

87 papers	2,673 citations	159358 30 h-index	214527 47 g-index
92 all docs	92 docs citations	92 times ranked	2350 citing authors

#	Article	IF	Citations
1	Geological constraints on the evolution of the Angolan margin based on reflection and refraction seismic data (ZaÃ¯Ango project). Geophysical Journal International, 2005, 162, 793-810.	1.0	170
2	Deep structure of the West African continental margin (Congo, ZaÃ¯re, Angola), between 5Â°S and 8Â°S, from reflection/refraction seismics and gravity data. Geophysical Journal International, 2004, 158, 529-553.	1.0	162
3	Seismic study of the crust of the northern Red Sea and Gulf of Suez. Tectonophysics, 1988, 153, 55-88.	0.9	117
4	Free gas and gas hydrates from the Sea of Marmara, Turkey. Chemical Geology, 2009, 264, 197-206.	1.4	111
5	Gas emissions and active tectonics within the submerged section of the North Anatolian Fault zone in the Sea of Marmara. Earth and Planetary Science Letters, 2008, 274, 34-39.	1.8	95
6	Societal need for improved understanding of climate change, anthropogenic impacts, and geo-hazard warning drive development of ocean observatories in European Seas. Progress in Oceanography, 2011, 91, 1-33.	1.5	91
7	Crustal structure of a super-slow spreading centre:a seismic refraction study of Mohns Ridge, 72Â N. Geophysical Journal International, 2000, 141, 509-526.	1.0	81
8	Tectonic and sedimentary controls on widespread gas emissions in the Sea of Marmara: Results from systematic, shipborne multibeam echo sounder water column imaging. Journal of Geophysical Research: Solid Earth, 2015, 120, 2891-2912.	1.4	74
9	Large-scale chemical and thermal division of the Pacific mantle. Nature, 1999, 399, 345-350.	13.7	62
10	Birth of a large volcanic edifice offshore Mayotte via lithosphere-scale dyke intrusion. Nature Geoscience, 2021, 14, 787-795.	5.4	59
11	Crustal structure of the SW-Moroccan margin from wide-angle and reflection seismic data (the) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	57
12	Ocean crust formation processes at very slow spreading centers: A model for the Mohns Ridge, near 72Â°N, based on magnetic, gravity, and seismic data. Journal of Geophysical Research, 1994, 99, 2995-3013.	3.3	51
13	Bathymetry from space: Rationale and requirements for a new, high-resolution altimetric mission. Comptes Rendus - Geoscience, 2006, 338, 1049-1062.	0.4	50
14	Mesozoic history of the Fairwayâ€Aotea Basin: Implications for the early stages of Gondwana fragmentation. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	49
15	Crustal structure of the basin and ridge system west of New Caledonia (southwest Pacific) from wideâ€angle and reflection seismic data. Journal of Geophysical Research, 2007, 112, .	3.3	48
16	The Mid-Atlantic Ridge between 29Â°N and 31Â°30â€²N in the last 10 Ma. Earth and Planetary Science Letters, 1995, 130, 45-55.	1.8	46
17	Tectonic history of northern New Caledonia Basin from deep offshore seismic reflection: Relation to late Eocene obduction in New Caledonia, southwest Pacific. Tectonics, 2008, 27, .	1.3	46
18	Marine Transform Faults and Fracture Zones: A Joint Perspective Integrating Seismicity, Fluid Flow and Life. Frontiers in Earth Science, 2019, 7, .	0.8	46

#	Article	IF	Citations
19	Constraints on fluid origins and migration velocities along the Marmara Main Fault (Sea of Marmara,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	45
20	Pore fluid chemistry of the North Anatolian Fault Zone in the Sea of Marmara: A diversity of sources and processes. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	42
21	MicrOBS: A new generation of ocean bottom seismometer. First Break, 2004, 22, .	0.2	40
22	Acoustic monitoring of gas emissions from the seafloor. Part II: a case study from the Sea of Marmara. Marine Geophysical Researches, 2014, 35, 211-229.	0.5	39
23	Slip rate estimation along the western segment of the Main Marmara Fault over the last 405-490 ka by correlating mass transport deposits. Tectonics, 2013, 32, 1587-1601.	1.3	38
24	Interseismic strain build-up on the submarine North Anatolian Fault offshore Istanbul. Nature Communications, 2019, 10, 3006.	5.8	37
25	Evolution of the Pacific-Antarctic Ridge South of the Udintsev Fracture Zone. Science, 1997, 278, 1281-1284.	6.0	36
26	Heat flow in the Sea of Marmara Central Basin: Possible implications for the tectonic evolution of the North Anatolian fault. Geology, 2012, 40, 3-6.	2.0	35
27	Microevents produced by gas migration and expulsion at the seabed: a study based on sea bottom recordings from the Sea of Marmara. Geophysical Journal International, 2012, 190, 993-1007.	1.0	35
28	No significant steady state surface creep along the North Anatolian Fault offshore Istanbul: Results of 6â€‰months of seafloor acoustic ranging. Geophysical Research Letters, 2016, 43, 6817-6825.	1.5	34
29	Distribution, morphology and triggers of submarine mass wasting in the Sea of Marmara. Marine Geology, 2012, 329-331, 58-74.	0.9	33
30	Geochemistry of the Hollister Ridge: relation with the Louisville hotspot and the Pacificâ€“Antarctic Ridge. Earth and Planetary Science Letters, 1998, 160, 777-793.	1.8	32
31	Seismic imaging of the eastern Algerian margin off Jijel: integrating wide-angle seismic modelling and multichannel seismic pre-stack depth migration. Geophysical Journal International, 2014, 198, 1486-1503.	1.0	32
32	geophysical and geochemical constraints on crustal accretion at the very-slow spreading mohns ridge. Geophysical Research Letters, 2000, 27, 1547-1550.	1.5	31
33	Mayotte seismic crisis: building knowledge in near real-time by combining land and ocean-bottom seismometers, first results. Geophysical Journal International, 2021, 228, 1281-1293.	1.0	30
34	Character of seismic motion at a location of a gas hydrateâ€bearing mud volcano on the SW Barents Sea margin. Journal of Geophysical Research: Solid Earth, 2014, 119, 6159-6177.	1.4	28
35	Three-dimensional structure of asthenospheric flow beneath the Southeast Indian Ridge. Journal of Geophysical Research, 1997, 102, 7783-7802.	3.3	26
36	Chemical systematics of an intermediate spreading ridge: The Pacific-Antarctic Ridge between 56Â°S and 66Â°S. Journal of Geophysical Research, 2000, 105, 2915-2936.	3.3	26

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37	Geophysical characterization of bottom simulating reflectors in the Fairway Basin (off New) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Geology, 2009, 266, 80-90.	0.9	26
38	Dynamics of fault-fluid-hydrate system around a shale-cored anticline in deepwater Nigeria. Journal of Geophysical Research, 2011, 116, .	3.3	26
39	Location of Louisville hotspot and origin of Hollister Ridge: geophysical constraints. Earth and Planetary Science Letters, 1998, 164, 31-40.	1.8	24
40	How far did the surface rupture of the 1999 Ä°zmit earthquake reach in Sea of Marmara?. Tectonics, 2011, 30, .	1.3	23
41	Evidence for methane isotopic bond re-ordering in gas reservoirs sourcing cold seeps from the Sea of Marmara. Earth and Planetary Science Letters, 2021, 553, 116619.	1.8	23
42	Contribution of highâ€resolution 3D seismic nearâ€seafloor imaging to reservoirâ€scale studies: application to the active North Anatolian Fault, Sea of Marmara. Near Surface Geophysics, 2012, 10, 291-301.	0.6	22
43	Volcano-tectonic events and sedimentation since Late Miocene times at the Mohns Ridge, near 72Â°N, in the Norwegian-Greenland Sea. Tectonophysics, 1993, 222, 417-444.	0.9	21
44	Map helps unravel complexities of the southwestern Pacific Ocean. Eos, 2012, 93, 1-2.	0.1	21
45	Multiple gas reservoirs are responsible for the gas emissions along the Marmara fault network. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 153, 48-60.	0.6	21
46	Analysis of propagators along the Pacificâ€“Antarctic Ridge: evidence for triggering by kinematic changes. Earth and Planetary Science Letters, 2002, 199, 415-428.	1.8	19
47	Sea-Bottom Observations from the Western Escarpment of the Sea of Marmara. Bulletin of the Seismological Society of America, 2011, 101, 775-791.	1.1	19
48	Seismic precursors linked to highly compressible fluids at oceanic transform faults. Nature Geoscience, 2014, 7, 757-761.	5.4	19
49	Pore water geochemistry at two seismogenic areas in the Sea of Marmara. Geochemistry, Geophysics, Geosystems, 2015, 16, 2038-2057.	1.0	19
50	Focused hydrocarbonâ€migration in shallow sediments of a pockmark cluster in the Niger Delta (Off) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	19
51	Gas and seismicity within the Istanbul seismic gap. Scientific Reports, 2018, 8, 6819.	1.6	19
52	Causes of earthquake spatial distribution beneath the Izu-Bonin-Mariana Arc. Journal of Asian Earth Sciences, 2018, 151, 90-100.	1.0	18
53	Effect of bandwidth on seismic imaging of rotating stratified turbulence surrounding an anticyclonic eddy from field data and numerical simulations. Geophysical Research Letters, 2009, 36, .	1.5	17
54	High resolution seismic imaging of the ocean structure using a small volume airgun source array in the Gulf of Cadiz. Geophysical Research Letters, 2009, 36, .	1.5	17

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55	Single-channel seismic reflection data from the East Pacific Rise axis between latitude 11Â°50â€² and 12Â°54â€²N. Geology, 1987, 15, 857.	2.0	16
56	Morphological reorganization within the Pacific-Antarctic Discordance. Earth and Planetary Science Letters, 1996, 137, 157-173.	1.8	15
57	Variations in axial morphology, segmentation, and seafloor roughness along the Pacific-Antarctic Ridge between 56Â°S and 66Â°S. Journal of Geophysical Research, 2001, 106, 8521-8546.	3.3	15
58	Multidisciplinary investigation on cold seeps with vigorous gas emissions in the Sea of Marmara (MarsiteCruise): Strategy for site detection and sampling and first scientific outcome. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 153, 36-47.	0.6	14
59	A statistical approach to relationships between fluid emissions and faults: The Sea of Marmara case. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 153, 131-143.	0.6	14
60	An Alternative View of the Microseismicity along the Western Main Marmara Fault. Bulletin of the Seismological Society of America, 2018, 108, 2650-2674.	1.1	13
61	Nonseismic Signals in the Ocean: Indicators of Deep Sea and Seafloor Processes on Oceanâ€Bottom Seismometer Data. Geochemistry, Geophysics, Geosystems, 2019, 20, 3882-3900.	1.0	13
62	Seismic wave propagation in a very permeable waterâ€saturated surface layer. Journal of Geophysical Research, 1987, 92, 7931-7944.	3.3	12
63	Deep-penetration heat flow probes raise questions about interpretations from shorter probes. Eos, 2001, 82, 317-317.	0.1	12
64	Discovery of continental stretching and oceanic spreading in the Tasman Sea. Eos, 2005, 86, 101.	0.1	12
65	Thermal regime of the Southeast Indian Ridge between 88Â°E and 140Â°E: Remarks on the subsidence of the ridge flanks. Journal of Geophysical Research, 2007, 112, .	3.3	12
66	Upward migration of gas in an active tectonic basin: An example from the sea of Marmara. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 153, 17-35.	0.6	12
67	Results from three refraction profiles in the northern Red Sea (above 25Â°N) recorded with an Ocean Bottom Vertical Seismic Array. Tectonophysics, 1988, 153, 89-101.	0.9	10
68	Gas occurrence and shallow conduit systems in the Western Sea of Marmara: a review and new acoustic evidence. Geo-Marine Letters, 2018, 38, 385-402.	0.5	10
69	Onland and Offshore Extrinsic Fabryâ€“PÃ©rot Optical Seismometer at the End of a Long Fiber. Seismological Research Letters, 2019, 90, 2205-2216.	0.8	10
70	Spatial and temporal dynamics of gas-related processes in the Sea of Marmara monitored with ocean bottom seismometers. Geophysical Journal International, 2019, 216, 1989-2003.	1.0	9
71	On the depth of oceanic earthquakes: Brief comments on â€œThe thermal structure of oceanic and continental lithosphereâ€, by McKenzie, D., Jackson, J. and Priestley, K., Earth Plan. Sci. Let., 233, [2005], 337â€“349. Earth and Planetary Science Letters, 2008, 265, 766-772.	1.8	8
72	Ocean Gravity Models From Future Satellite Missions. Eos, 2010, 91, 21-22.	0.1	8

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73	2-D and 3-D modelling of wide-angle seismic data: an example from the VÃ¸ring volcanic passive margin. Marine Geophysical Researches, 2006, 27, 181-199.	0.5	7
74	Formation, segmentation and deep crustal structure variations along the Algerian margin from the SPIRAL seismic experiment. Journal of African Earth Sciences, 2022, 186, 104433.	0.9	6
75	The Southeast Indian Ridge between 127Â° and 132Â°40â€²E: contrasts in segmentation characteristics and implications for crustal accretion. Geological Society Special Publication, 1996, 118, 1-15.	0.8	4
76	Mass Transport Deposits Periodicity Related to Glacial Cycles and Marine-Lacustrine Transitions on a Ponded Basin of the Sea of Marmara (Turkey) Over the Last 500 ka. Advances in Natural and Technological Hazards Research, 2014, , 595-603.	1.1	4
77	Improved detection and Coulomb stress computations for gas-related, shallow seismicity, in the Western Sea of Marmara. Earth and Planetary Science Letters, 2019, 513, 113-123.	1.8	4
78	Seismic imaging of the ocean internal structure: A new tool in physical oceanography?. Eos, 2005, 86, 15.	0.1	3
79	A review of 20Âyears (1999â€"2019) of Turkishâ€"French collaboration in marine geoscience research in the Sea of Marmara. Mediterranean Geoscience Reviews, 2021, 3, 3-27.	0.6	3
80	Creep-dilatancy development at a transform plate boundary. Nature Communications, 2022, 13, 1913.	5.8	3
81	Mapping the sedimentary basins of the Barents and Kara Seas using ERS-1 altimetry-geodetic mission. Marine Geophysical Researches, 1998, 20, 109-127.	0.5	2
82	Heat flow from the Southeast Indian Ridge flanks between 80Â°E and 140Â°E: Data review and analysis. Journal of Geophysical Research, 2008, 113, .	3.3	2
83	The effect of introducing continuity conditions in the constrained sinusoidal crossover adjustment method to reduce satellite orbit errors. Geophysical Research Letters, 1995, 22, 949-952.	1.5	1
84	Reply [to â€œComments on â€œDeep-Penetration Heat Flow Probes Raise Questions About Interpretations From Shorter Probesâ€™â€]. Eos, 2002, 83, 197-199.	0.1	0
85	Brazilian and Angolan Passive Margins: the kinematic constraints. , 2007, , .		0
86	The MARDEP project: The Sea of Marmara observatory infrastructure for multidisciplinary earthquake and environmental research and monitoring. , 2011, , .		0
87	Reply to â€œComment on â€˜An Alternative View of the Microseismicity along the Western Main Marmara Faultâ€™ by E. Batsi etÂal.â€•by Y. Yamamoto etÂal.. Bulletin of the Seismological Society of America, 2020, 110, 383-386.	1.1	0