

Louis GÃ©li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/980748/publications.pdf>

Version: 2024-02-01

87
papers

2,673
citations

159573

30
h-index

214788

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). <i>Geophysical Journal International</i> , 2005, 162, 793-810.	2.4	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. <i>Geophysical Journal International</i> , 2004, 158, 529-553.	2.4	162
3	Seismic study of the crust of the northern Red Sea and Gulf of Suez. <i>Tectonophysics</i> , 1988, 153, 55-88.	2.2	117
4	Free gas and gas hydrates from the Sea of Marmara, Turkey. <i>Chemical Geology</i> , 2009, 264, 197-206.	3.3	111
5	Gas emissions and active tectonics within the submerged section of the North Anatolian Fault zone in the Sea of Marmara. <i>Earth and Planetary Science Letters</i> , 2008, 274, 34-39.	4.4	95
6	Societal need for improved understanding of climate change, anthropogenic impacts, and geo-hazard warning drive development of ocean observatories in European Seas. <i>Progress in Oceanography</i> , 2011, 91, 1-33.	3.2	91
7	Crustal structure of a super-slow spreading centre:a seismic refraction study of Mohns Ridge, 72Â°N. <i>Geophysical Journal International</i> , 2000, 141, 509-526.	2.4	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. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 2891-2912.	3.4	74
9	Large-scale chemical and thermal division of the Pacific mantle. <i>Nature</i> , 1999, 399, 345-350.	27.8	62
10	Birth of a large volcanic edifice offshore Mayotte via lithosphere-scale dyke intrusion. <i>Nature Geoscience</i> , 2021, 14, 787-795.	12.9	59
11	Crustal structure of the SW-Moroccan margin from wide-angle and reflection seismic data (the Tj ETQq1 1 0.7843]4 rgBT /Overlock 10	2.2	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. <i>Journal of Geophysical Research</i> , 1994, 99, 2995-3013.	3.3	51
13	Bathymetry from space: Rationale and requirements for a new, high-resolution altimetric mission. <i>Comptes Rendus - Geoscience</i> , 2006, 338, 1049-1062.	1.2	50
14	Mesozoic history of the Fairwayâ€Aotea Basin: Implications for the early stages of Gondwana fragmentation. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	49
15	Crustal structure of the basin and ridge system west of New Caledonia (southwest Pacific) from wideâ€angle and reflection seismic data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	48
16	The Mid-Atlantic Ridge between 29Â°N and 31Â°30â€™N in the last 10 Ma. <i>Earth and Planetary Science Letters</i> , 1995, 130, 45-55.	4.4	46
17	Tectonic history of northern New Caledonia Basin from deep offshore seismic reflection: Relation to late Eocene obduction in New Caledonia, southwest Pacific. <i>Tectonics</i> , 2008, 27, .	2.8	46
18	Marine Transform Faults and Fracture Zones: A Joint Perspective Integrating Seismicity, Fluid Flow and Life. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	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 /Ove	4.4	45
20	Pore fluid chemistry of the North Anatolian Fault Zone in the Sea of Marmara: A diversity of sources and processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	42
21	MicrOBS: A new generation of ocean bottom seismometer. <i>First Break</i> , 2004, 22, .	0.4	40
22	Acoustic monitoring of gas emissions from the seafloor. Part II: a case study from the Sea of Marmara. <i>Marine Geophysical Researches</i> , 2014, 35, 211-229.	1.2	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. <i>Tectonics</i> , 2013, 32, 1587-1601.	2.8	38
24	Interseismic strain build-up on the submarine North Anatolian Fault offshore Istanbul. <i>Nature Communications</i> , 2019, 10, 3006.	12.8	37
25	Evolution of the Pacific-Antarctic Ridge South of the Udintsev Fracture Zone. <i>Science</i> , 1997, 278, 1281-1284.	12.6	36
26	Heat flow in the Sea of Marmara Central Basin: Possible implications for the tectonic evolution of the North Anatolian fault. <i>Geology</i> , 2012, 40, 3-6.	4.4	35
27	Microevents produced by gas migration and expulsion at the seabed: a study based on sea bottom recordings from the Sea of Marmara. <i>Geophysical Journal International</i> , 2012, 190, 993-1007.	2.4	35
28	No significant steady state surface creep along the North Anatolian Fault offshore Istanbul: Results of 6 months of seafloor acoustic ranging. <i>Geophysical Research Letters</i> , 2016, 43, 6817-6825.	4.0	34
29	Distribution, morphology and triggers of submarine mass wasting in the Sea of Marmara. <i>Marine Geology</i> , 2012, 329-331, 58-74.	2.1	33
30	Geochemistry of the Hollister Ridge: relation with the Louisville hotspot and the Pacific-Antarctic Ridge. <i>Earth and Planetary Science Letters</i> , 1998, 160, 777-793.	4.4	32
31	Seismic imaging of the eastern Algerian margin off Jijel: integrating wide-angle seismic modelling and multichannel seismic pre-stack depth migration. <i>Geophysical Journal International</i> , 2014, 198, 1486-1503.	2.4	32
32	geophysical and geochemical constraints on crustal accretion at the very-slow spreading mohns ridge. <i>Geophysical Research Letters</i> , 2000, 27, 1547-1550.	4.0	31
33	Mayotte seismic crisis: building knowledge in near real-time by combining land and ocean-bottom seismometers, first results. <i>Geophysical Journal International</i> , 2021, 228, 1281-1293.	2.4	30
34	Character of seismic motion at a location of a gas hydrate-bearing mud volcano on the SW Barents Sea margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6159-6177.	3.4	28
35	Three-dimensional structure of asthenospheric flow beneath the Southeast Indian Ridge. <i>Journal of Geophysical Research</i> , 1997, 102, 7783-7802.	3.3	26
36	Chemical systematics of an intermediate spreading ridge: The Pacific-Antarctic Ridge between 56°S and 66°S. <i>Journal of Geophysical Research</i> , 2000, 105, 2915-2936.	3.3	26

#	ARTICLE	IF	CITATIONS
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.	2.1	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.	4.4	24
40	How far did the surface rupture of the 1999 Ä°zmit earthquake reach in Sea of Marmara?. Tectonics, 2011, 30, .	2.8	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.	4.4	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.	1.2	22
43	Volcano-tectonic events and sedimentation since Late Miocene times at the Mohns Ridge, near 72Ä°N, in the Norwegian-Greenland Sea. Tectonophysics, 1993, 222, 417-444.	2.2	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.	1.4	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.	4.4	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.	2.3	19
48	Seismic precursors linked to highly compressible fluids at oceanic transform faults. Nature Geoscience, 2014, 7, 757-761.	12.9	19
49	Pore water geochemistry at two seismogenic areas in the Sea of Marmara. Geochemistry, Geophysics, Geosystems, 2015, 16, 2038-2057.	2.5	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 5	2.5	19
51	Gas and seismicity within the Istanbul seismic gap. Scientific Reports, 2018, 8, 6819.	3.3	19
52	Causes of earthquake spatial distribution beneath the Izu-Bonin-Mariana Arc. Journal of Asian Earth Sciences, 2018, 151, 90-100.	2.3	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, .	4.0	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, .	4.0	17

#	ARTICLE	IF	CITATIONS
55	Single-channel seismic reflection data from the East Pacific Rise axis between latitude 11°50' and 12°54'N. <i>Geology</i> , 1987, 15, 857.	4.4	16
56	Morphological reorganization within the Pacific-Antarctic Discordance. <i>Earth and Planetary Science Letters</i> , 1996, 137, 157-173.	4.4	15
57	Variations in axial morphology, segmentation, and seafloor roughness along the Pacific-Antarctic Ridge between 56°S and 66°S. <i>Journal of Geophysical Research</i> , 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. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 153, 36-47.	1.4	14
59	A statistical approach to relationships between fluid emissions and faults: The Sea of Marmara case. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 153, 131-143.	1.4	14
60	An Alternative View of the Microseismicity along the Western Main Marmara Fault. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2650-2674.	2.3	13
61	Nonseismic Signals in the Ocean: Indicators of Deep Sea and Seafloor Processes on Ocean Bottom Seismometer Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3882-3900.	2.5	13
62	Seismic wave propagation in a very permeable water-saturated surface layer. <i>Journal of Geophysical Research</i> , 1987, 92, 7931-7944.	3.3	12
63	Deep-penetration heat flow probes raise questions about interpretations from shorter probes. <i>Eos</i> , 2001, 82, 317-317.	0.1	12
64	Discovery of continental stretching and oceanic spreading in the Tasman Sea. <i>Eos</i> , 2005, 86, 101.	0.1	12
65	Thermal regime of the Southeast Indian Ridge between 88°E and 140°E: Remarks on the subsidence of the ridge flanks. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
66	Upward migration of gas in an active tectonic basin: An example from the sea of Marmara. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 153, 17-35.	1.4	12
67	Results from three refraction profiles in the northern Red Sea (above 25°N) recorded with an Ocean Bottom Vertical Seismic Array. <i>Tectonophysics</i> , 1988, 153, 89-101.	2.2	10
68	Gas occurrence and shallow conduit systems in the Western Sea of Marmara: a review and new acoustic evidence. <i>Geo-Marine Letters</i> , 2018, 38, 385-402.	1.1	10
69	Onland and Offshore Extrinsic Fabry-Pérot Optical Seismometer at the End of a Long Fiber. <i>Seismological Research Letters</i> , 2019, 90, 2205-2216.	1.9	10
70	Spatial and temporal dynamics of gas-related processes in the Sea of Marmara monitored with ocean bottom seismometers. <i>Geophysical Journal International</i> , 2019, 216, 1989-2003.	2.4	9
71	On the depth of oceanic earthquakes: Brief comments on "The thermal structure of oceanic and continental lithosphere", by McKenzie, D., Jackson, J. and Priestley, K., <i>Earth Plan. Sci. Let.</i> , 233, [2005], 337-349. <i>Earth and Planetary Science Letters</i> , 2008, 265, 766-772.	4.4	8
72	Ocean Gravity Models From Future Satellite Missions. <i>Eos</i> , 2010, 91, 21-22.	0.1	8

#	ARTICLE	IF	CITATIONS
73	2-D and 3-D modelling of wide-angle seismic data: an example from the VÄring volcanic passive margin. <i>Marine Geophysical Researches</i> , 2006, 27, 181-199.	1.2	7
74	Formation, segmentation and deep crustal structure variations along the Algerian margin from the SPIRAL seismic experiment. <i>Journal of African Earth Sciences</i> , 2022, 186, 104433.	2.0	6
75	The Southeast Indian Ridge between 127° and 132°40'E: contrasts in segmentation characteristics and implications for crustal accretion. <i>Geological Society Special Publication</i> , 1996, 118, 1-15.	1.3	4
76	Mass Transport Deposits Periodicity Related to Glacial Cycles and Marine-Lacustrine Transitions on a Pounded Basin of the Sea of Marmara (Turkey) Over the Last 500 ka. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 595-603.	1.1	4
77	Improved detection and Coulomb stress computations for gas-related, shallow seismicity, in the Western Sea of Marmara. <i>Earth and Planetary Science Letters</i> , 2019, 513, 113-123.	4.4	4
78	Seismic imaging of the ocean internal structure: A new tool in physical oceanography?. <i>Eos</i> , 2005, 86, 15.	0.1	3
79	A review of 20 years (1999-2019) of Turkish-French collaboration in marine geoscience research in the Sea of Marmara. <i>Mediterranean Geoscience Reviews</i> , 2021, 3, 3-27.	1.2	3
80	Creep-dilatancy development at a transform plate boundary. <i>Nature Communications</i> , 2022, 13, 1913.	12.8	3
81	Mapping the sedimentary basins of the Barents and Kara Seas using ERS-1 altimetry-geodetic mission. <i>Marine Geophysical Researches</i> , 1998, 20, 109-127.	1.2	2
82	Heat flow from the Southeast Indian Ridge flanks between 80°E and 140°E: Data review and analysis. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
83	The effect of introducing continuity conditions in the constrained sinusoidal crossover adjustment method to reduce satellite orbit errors. <i>Geophysical Research Letters</i> , 1995, 22, 949-952.	4.0	1
84	Reply [to "Comments on "Deep-Penetration Heat Flow Probes Raise Questions About Interpretations From Shorter Probes"]. <i>Eos</i> , 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 "Comment on "An Alternative View of the Microseismicity along the Western Main Marmara Fault" by E. Batsi et al." by Y. Yamamoto et al.. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2.3 383-386.		0