

# Geoffroy Lamarche

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8106954/publications.pdf>

Version: 2024-02-01

68  
papers

3,936  
citations

109321

35  
h-index

123424

61  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3452  
citing authors

#	ARTICLE	IF	CITATIONS
1	National Seismic Hazard Model for New Zealand: 2010 Update. Bulletin of the Seismological Society of America, 2012, 102, 1514-1542.	2.3	359
2	Tectonic and geological framework for gas hydrates and cold seeps on the Hikurangi subduction margin, New Zealand. Marine Geology, 2010, 272, 26-48.	2.1	269
3	The Nippon Foundationâ€™s GEBCO Seabed 2030 Project: The Quest to See the Worldâ€™s Oceans Completely Mapped by 2030. Geosciences (Switzerland), 2018, 8, 63.	2.2	252
4	The giant Ruatoria debris avalanche on the northern Hikurangi margin, New Zealand: Result of oblique seamount subduction. Journal of Geophysical Research, 2001, 106, 19271-19297.	3.3	178
5	The kinematics of a transition from subduction to strike-slip: An example from the central New Zealand plate boundary. Journal of Geophysical Research, 2012, 117, .	3.3	159
6	A model of active faulting in New Zealand. New Zealand Journal of Geology, and Geophysics, 2014, 57, 32-56.	1.8	147
7	Seafloor Mapping â€“ The Challenge of a Truly Global Ocean Bathymetry. Frontiers in Marine Science, 2019, 6, .	2.5	140
8	Quantitative characterisation of seafloor substrate and bedforms using advanced processing of multibeam backscatterâ€™ Application to Cook Strait, New Zealand. Continental Shelf Research, 2011, 31, S93-S109.	1.8	125
9	Surface Rupture of Multiple Crustal Faults in the 2016 Mw 7.8 Kaikâ€™ura, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1496-1520.	2.3	125
10	Earthquakes drive large-scale submarine canyon development and sediment supply to deep-ocean basins. Science Advances, 2018, 4, eaar3748.	10.3	123
11	From oblique subduction to intra-continental transpression: Structures of the southern Kermadec-Hikurangi margin from multibeam bathymetry, side-scan sonar and seismic reflection. Marine Geophysical Researches, 1996, 18, 357-381.	1.2	116
12	High-resolution record of displacement accumulation on an active normal fault: implications for models of slip accumulation during repeated earthquakes. Journal of Structural Geology, 2006, 28, 1146-1166.	2.3	79
13	The Oligocene-Miocene Pacific-Australia plate boundary, south of New Zealand: Evolution from oceanic spreading to strike-slip faulting. Earth and Planetary Science Letters, 1997, 148, 129-139.	4.4	78
14	Faulting and extension rate over the last 20,000 years in the offshore Whakatane Graben, New Zealand continental shelf. Tectonics, 2006, 25, n/a-n/a.	2.8	75
15	Unsupervised fuzzy classification and object-based image analysis of multibeam data to map deep water substrates, Cook Strait, New Zealand. Continental Shelf Research, 2011, 31, 1236-1247.	1.8	75
16	Subduction initiation at a strike-slip plate boundary: The Cenozoic Pacific-Australian plate boundary, south of New Zealand. Journal of Geophysical Research, 2003, 108, .	3.3	74
17	Palaeotsunamis in the Pacific Islands. Earth-Science Reviews, 2011, 107, 141-146.	9.1	73
18	Recommendations for improved and coherent acquisition and processing of backscatter data from seafloor-mapping sonars. Marine Geophysical Researches, 2018, 39, 5-22.	1.2	70

#	ARTICLE	IF	CITATIONS
19	Structure of the Hanmer strike-slip basin, Hope fault, New Zealand. <i>Bulletin of the Geological Society of America</i> , 1994, 106, 1459-1473.	3.3	67
20	Submarine paleoseismology of the northern Hikurangi subduction margin of New Zealand as deduced from Turbidite record since 16Åka. <i>Quaternary Science Reviews</i> , 2014, 84, 116-131.	3.0	66
21	The Mw7.8 2016 KaikÅura earthquake. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2017, 50, 73-84.	0.5	66
22	Normal fault growth and linkage in the Whakatane Graben, New Zealand, during the last 1.3 Myr. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	65
23	Successive, large massâ€transport deposits in the south Kermadec foreâ€arc basin, New Zealand: The Matakaoa Submarine Instability Complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	64
24	Paleogene seafloor spreading in the southeast Tasman Sea. <i>Tectonics</i> , 1996, 15, 966-975.	2.8	63
25	Postglacial (after 18ka) deep-sea sedimentation along the Hikurangi subduction margin (New Zealand): Characterisation, timing and origin of turbidites. <i>Marine Geology</i> , 2012, 295-298, 51-76.	2.1	57
26	Predecessors to the 2009 South Pacific tsunami in the Wallis and Futuna archipelago. <i>Earth-Science Reviews</i> , 2011, 107, 91-106.	9.1	55
27	Morphostructure of an incipient subduction zone along a transform plate boundary: Puysegur Ridge and Trench. <i>Geology</i> , 1995, 23, 519.	4.4	52
28	Transition from strike-slip faulting to oblique subduction: active tectonics at the Puysegur Margin, South New Zealand. <i>Tectonophysics</i> , 2000, 316, 67-89.	2.2	50
29	Abrupt strike-slip fault to subduction transition: The Alpine Fault-Puysegur Trench connection, New Zealand. <i>Tectonics</i> , 2000, 19, 688-706.	2.8	50
30	From strike-slip faulting to oblique subduction: A survey of the Alpine Fault-Puysegur Trench transition, New Zealand, results of cruise Geodynz-sud leg 2. <i>Marine Geophysical Researches</i> , 1996, 18, 383-399.	1.2	45
31	Building an 18 000-year-long paleo-earthquake record from detailed deep-sea turbidite characterisation in Poverty Bay, New Zealand. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 2077-2101.	3.6	44
32	Onshore to Offshore Groundâ€Surface and Seabed Rupture of the Jordanâ€Kekerenguâ€Needles Fault Network during the 2016 Mw7.8 KaikÅura Earthquake, New Zealand. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 1573-1595.	2.3	43
33	Environmental management frameworks for offshore mining: the New Zealand approach. <i>Marine Policy</i> , 2017, 84, 178-192.	3.2	41
34	Long-term slip rates and fault interactions under low contractional strain, Wanganui Basin, New Zealand. <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	38
35	Crustal structure and neotectonics of the Puysegur oblique subduction zone, New Zealand. <i>Tectonophysics</i> , 1999, 313, 335-362.	2.2	36
36	Dynamics of giant mass transport in deep submarine environments: the Matakaoa Debris Flow, New Zealand. <i>Basin Research</i> , 2013, 25, 471-488.	2.7	32

#	ARTICLE	IF	CITATIONS
37	Focused fluid seepage related to variations in accretionary wedge structure, Hikurangi margin, New Zealand. <i>Geology</i> , 2020, 48, 56-61.	4.4	31
38	Inhomogeneous substrate analysis using EM300 backscatter imagery. <i>Marine Geophysical Researches</i> , 2003, 24, 311-327.	1.2	30
39	Impact of the 29 September 2009 South Pacific tsunami on Wallis and Futuna. <i>Marine Geology</i> , 2010, 271, 297-302.	2.1	30
40	User expectations for multibeam echo sounders backscatter strength data-looking back into the future. <i>Marine Geophysical Researches</i> , 2018, 39, 23-40.	1.2	27
41	Microstructural analysis and origin of lineations in the magnetic fabric of some Alpine slates. <i>Tectonophysics</i> , 1987, 139, 285-293.	2.2	25
42	Characterizing earthquake recurrence parameters for offshore faults in the low-strain, compressional Kapiti-Manawatu Fault System, New Zealand. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
43	Sedimentary architecture of a Plio-Pleistocene proto-back-arc basin: Wanganui Basin, New Zealand. <i>Sedimentary Geology</i> , 2005, 181, 107-145.	2.1	23
44	New eruptive vents for the Whakamaru Ignimbrite (Taupo Volcanic Zone) identified from magnetic fabric study. <i>New Zealand Journal of Geology, and Geophysics</i> , 1993, 36, 213-222.	1.8	21
45	Continental slope reconstruction after a giant mass failure, the example of the Matakaoa Margin, New Zealand. <i>Marine Geology</i> , 2010, 268, 67-84.	2.1	21
46	Seismic reflection survey in the geothermal field of the rotorua caldera, new zealand. <i>Geothermics</i> , 1992, 21, 109-119.	3.4	20
47	Constraining fault growth rates and fault evolution in New Zealand. <i>Eos</i> , 2000, 81, 481-486.	0.1	18
48	Validation of automated supervised segmentation of multibeam backscatter data from the Chatham Rise, New Zealand. <i>Marine Geophysical Researches</i> , 2018, 39, 205-227.	1.2	16
49	Morphometric analysis of the submarine arc volcano Monowai (Tofua Kermadec Arc) to decipher tectono-magmatic interactions. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 239-240, 69-82.	2.1	15
50	Deformation style and history of the Eketahuna region, Hikurangi forearc, New Zealand, from shallow seismic reflection data. <i>New Zealand Journal of Geology, and Geophysics</i> , 1995, 38, 105-115.	1.8	14
51	Preface: Marine and Lake Paleoseismology. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 3469-3478.	3.6	14
52	Sediment transport trends from a tropical Pacific lagoon as indicated by <i>Homotrema rubra</i> taphonomy: Wallis Island, Polynesia. <i>Marine Micropaleontology</i> , 2014, 109, 21-29.	1.2	13
53	Seafloor multibeam backscatter calibration experiment: comparing 45°-tilted 38-kHz split-beam echosounder and 30-kHz multibeam data. <i>Marine Geophysical Researches</i> , 2018, 39, 41-53.	1.2	13
54	Erosional and depositional processes on the submarine flanks of Ontong Java and Nukumanu atolls, western equatorial Pacific Ocean. <i>Marine Geology</i> , 2017, 392, 122-139.	2.1	12

#	ARTICLE	IF	CITATIONS
55	La fabrique magnÃ©tique du flysch dauphinois (Alpes francaises) : origine et application quantitative. <i>Geodinamica Acta</i> , 1987, 1, 103-112.	2.2	12
56	The footprint of ship anchoring on the seafloor. <i>Scientific Reports</i> , 2022, 12, 7500.	3.3	12
57	Introduction to the Special Issue "Seafloor backscatter data from swath mapping echosounders: from technological development to novel applications" <i>Marine Geophysical Researches</i> , 2018, 39, 1-3.	1.2	10
58	What We Do in the Shallows: Natural and Anthropogenic Seafloor Geomorphologies in a Drowned River Valley, New Zealand. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	10
59	Scenario-based numerical modelling and the palaeo-historic record of tsunamis in Wallis and Futuna, Southwest Pacific. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1763-1784.	3.6	8
60	Predicting habitat suitability of filter-feeder communities in a shallow marine environment, New Zealand. <i>Marine Environmental Research</i> , 2021, 163, 105218.	2.5	8
61	Climate and Tectonic Changes in the Ocean Around New Zealand. <i>Eos</i> , 2008, 89, 277-278.	0.1	5
62	Submarine Mass Movements and Their Consequences: Progress and Challenges. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 1-12.	1.1	5
63	Tsunami hazard potential for the equatorial southwestern Pacific atolls of Tokelau from scenario-based simulations. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1239-1257.	3.6	4
64	The Cook Strait Canyon, New Zealand. , 2012, , 727-737.		3
65	Gas Bubble Forensics Team Surveils the New Zealand Ocean. <i>Eos</i> , 2019, 100, .	0.1	3
66	Acoustic Predictors of Active Fluid Expulsion From a Hydrothermal Vent Field, Offshore TaupÃ© Volcanic Zone, New Zealand. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	2
67	Inner shelf habitat surrounding the Kapiti Marine Reserve, New Zealand. , 2020, , 403-419.		0
68	The Petroleum Prospectivity of Reinga Basin, NW New Zealand. , 2015, , .		0