

# Geoffroy Lamarche

## List of Publications by Year in descending order

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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	Acoustic Predictors of Active Fluid Expulsion From a Hydrothermal Vent Field, Offshore Taupō Volcanic Zone, New Zealand. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	2
2	The footprint of ship anchoring on the seafloor. <i>Scientific Reports</i> , 2022, 12, 7500.	3.3	12
3	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
4	Inner shelf habitat surrounding the Kapiti Marine Reserve, New Zealand. , 2020, , 403-419.		0
5	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
6	Focused fluid seepage related to variations in accretionary wedge structure, Hikurangi margin, New Zealand. <i>Geology</i> , 2020, 48, 56-61.	4.4	31
7	Seafloor Mapping – The Challenge of a Truly Global Ocean Bathymetry. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	140
8	Gas Bubble Forensics Team Surveils the New Zealand Ocean. <i>Eos</i> , 2019, 100, .	0.1	3
9	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
10	Earthquakes drive large-scale submarine canyon development and sediment supply to deep-ocean basins. <i>Science Advances</i> , 2018, 4, eaar3748.	10.3	123
11	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
12	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
13	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
14	Recommendations for improved and coherent acquisition and processing of backscatter data from seafloor-mapping sonars. <i>Marine Geophysical Researches</i> , 2018, 39, 5-22.	1.2	70
15	Surface Rupture of Multiple Crustal Faults in the 2016 Mw 7.8 Kaikōura, New Zealand, Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 1496-1520.	2.3	125
16	Onshore to Offshore Ground Surface and Seabed Rupture of the Jordan –Kekerengu –Needles Fault Network during the 2016 Mw 7.8 Kaikōura Earthquake, New Zealand. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 1573-1595.	2.3	43
17	The Nippon Foundation – GEBCO Seabed 2030 Project: The Quest to See the World’s Oceans Completely Mapped by 2030. <i>Geosciences (Switzerland)</i> , 2018, 8, 63.	2.2	252
18	Environmental management frameworks for offshore mining: the New Zealand approach. <i>Marine Policy</i> , 2017, 84, 178-192.	3.2	41

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19	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
20	The Mw7.8 2016 Kaikōura earthquake. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2017, 50, 73-84.	0.5	66
21	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
22	Submarine Mass Movements and Their Consequences: Progress and Challenges. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 1-12.	1.1	5
23	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
24	The Petroleum Prospectivity of Reinga Basin, NW New Zealand. , 2015, , .		0
25	Submarine paleoseismology of the northern Hikurangi subduction margin of New Zealand as deduced from Turbidite record since 16ka. <i>Quaternary Science Reviews</i> , 2014, 84, 116-131.	3.0	66
26	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
27	A model of active faulting in New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2014, 57, 32-56.	1.8	147
28	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
29	Preface: Marine and Lake Paleoseismology. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 3469-3478.	3.6	14
30	The Cook Strait Canyon, New Zealand. , 2012, , 727-737.		3
31	National Seismic Hazard Model for New Zealand: 2010 Update. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 1514-1542.	2.3	359
32	The kinematics of a transition from subduction to strike-slip: An example from the central New Zealand plate boundary. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	159
33	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
34	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
35	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
36	Unsupervised fuzzy classification and object-based image analysis of multibeam data to map deep water substrates, Cook Strait, New Zealand. <i>Continental Shelf Research</i> , 2011, 31, 1236-1247.	1.8	75

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37	Quantitative characterisation of seafloor substrate and bedforms using advanced processing of multibeam backscatter – Application to Cook Strait, New Zealand. <i>Continental Shelf Research</i> , 2011, 31, S93-S109.	1.8	125
38	Palaeotsunamis in the Pacific Islands. <i>Earth-Science Reviews</i> , 2011, 107, 141-146.	9.1	73
39	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
40	Tectonic and geological framework for gas hydrates and cold seeps on the Hikurangi subduction margin, New Zealand. <i>Marine Geology</i> , 2010, 272, 26-48.	2.1	269
41	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
42	Impact of the 29 September 2009 South Pacific tsunami on Wallis and Futuna. <i>Marine Geology</i> , 2010, 271, 297-302.	2.1	30
43	Successive, large mass transport deposits in the south Kermadec forearc basin, New Zealand: The Matakaoa Submarine Instability Complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	64
44	Climate and Tectonic Changes in the Ocean Around New Zealand. <i>Eos</i> , 2008, 89, 277-278.	0.1	5
45	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
46	Faulting and extension rate over the last 20,000 years in the offshore Whakatane Graben, New Zealand continental shelf. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	75
47	High-resolution record of displacement accumulation on an active normal fault: implications for models of slip accumulation during repeated earthquakes. <i>Journal of Structural Geology</i> , 2006, 28, 1146-1166.	2.3	79
48	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
49	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
50	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
51	Inhomogeneous substrate analysis using EM300 backscatter imagery. <i>Marine Geophysical Researches</i> , 2003, 24, 311-327.	1.2	30
52	Subduction initiation at a strike-slip plate boundary: The Cenozoic Pacific-Australian plate boundary, south of New Zealand. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	74
53	The giant Ruatoria debris avalanche on the northern Hikurangi margin, New Zealand: Result of oblique seamount subduction. <i>Journal of Geophysical Research</i> , 2001, 106, 19271-19297.	3.3	178
54	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

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55	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
56	Constraining fault growth rates and fault evolution in New Zealand. <i>Eos</i> , 2000, 81, 481-486.	0.1	18
57	Crustal structure and neotectonics of the Puysegur oblique subduction zone, New Zealand. <i>Tectonophysics</i> , 1999, 313, 335-362.	2.2	36
58	The Oligocene-Miocene Pacific-Australia plate boundary, south of New Zealand: Evolution from oceanic spreading to strike-slip faulting. <i>Earth and Planetary Science Letters</i> , 1997, 148, 129-139.	4.4	78
59	Paleogene seafloor spreading in the southeast Tasman Sea. <i>Tectonics</i> , 1996, 15, 966-975.	2.8	63
60	From oblique subduction to intra-continental transpression: Structures of the southern Kermadec-Hikurangi margin from multibeam bathymetry, side-scan sonar and seismic reflection. <i>Marine Geophysical Researches</i> , 1996, 18, 357-381.	1.2	116
61	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
62	Morphostructure of an incipient subduction zone along a transform plate boundary: Puysegur Ridge and Trench. <i>Geology</i> , 1995, 23, 519.	4.4	52
63	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
64	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
65	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
66	Seismic reflection survey in the geothermal field of the rotorua caldera, new zealand. <i>Geothermics</i> , 1992, 21, 109-119.	3.4	20
67	Microstructural analysis and origin of lineations in the magnetic fabric of some Alpine slates. <i>Tectonophysics</i> , 1987, 139, 285-293.	2.2	25
68	La fabrique magnétique du flysch dauphinois (Alpes francaises) : origine et application quantitative. <i>Geodynamica Acta</i> , 1987, 1, 103-112.	2.2	12