Emily Margaret Lane

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An asymptotic theory for the interaction of waves and currents in coastal waters. Journal of Fluid Mechanics, 2004, 511, 135-178.	3.4	263
2	Wave–Current Interaction: A Comparison of Radiation-Stress and Vortex-Force Representations. Journal of Physical Oceanography, 2007, 37, 1122-1141.	1.7	87
3	A possible sequence of events for the generalized glacial-interglacial cycle. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	59
4	Tsunami runup and tide-gauge observations from the 14 November 2016 M7.8 KaikÅura earthquake, New Zealand. Pure and Applied Geophysics, 2017, 174, 2457-2473.	1.9	48
5	A Refractive Index Mapping Operator for Assimilation of Occultation Data. Monthly Weather Review, 2005, 133, 2650-2668.	1.4	41
6	A Probabilistic Tsunami Hazard Study of the Auckland Region, Part I: Propagation Modelling and Tsunami Hazard Assessment at the Shoreline. Pure and Applied Geophysics, 2013, 170, 1621-1634.	1.9	35
7	A study of tides and currents in Cook Strait, New Zealand. Ocean Dynamics, 2010, 60, 1559-1580.	2.2	33
8	A vortex force analysis of the interaction of rip currents and surface gravity waves. Journal of Geophysical Research, 2011, 116, .	3.3	30
9	A Probabilistic Tsunami Hazard Study of the Auckland Region, Part II: Inundation Modelling and Hazard Assessment. Pure and Applied Geophysics, 2013, 170, 1635-1646.	1.9	27
10	Useful time-stepping methods for the Coriolis term in a shallow water model. Ocean Modelling, 2009, 28, 66-74.	2.4	19
11	A mechanism for switching near a heteroclinic network. Dynamical Systems, 2010, 25, 323-349.	0.4	19
12	Estimating tsunami run-up. Natural Hazards, 2016, 80, 1933-1947.	3.4	17
13	Effects of Inundation by the 14th November, 2016 KaikÅura Tsunami on Banks Peninsula, Canterbury, New Zealand. Pure and Applied Geophysics, 2017, 174, 1855-1874.	1.9	15
14	Shoreface-connected ridges under the action of waves and currents. Journal of Fluid Mechanics, 2007, 582, 23-52.	3.4	12
15	Assessing transportation vulnerability to tsunamis: utilising post-event field data from the 2011 TÅhoku tsunami, Japan, and the 2015 Illapel tsunami, Chile. Natural Hazards and Earth System Sciences, 2020, 20, 451-470.	3.6	11
16	Coupled Modelling of the Failure and Tsunami of a Submarine Debris Avalanche Offshore Central New Zealand. Advances in Natural and Technological Hazards Research, 2016, , 599-606.	1.1	11
17	A dynamic-flow carbon-cycle box model and high-latitude sensitivity. Tellus, Series B: Chemical and Physical Meteorology, 2022, 58, 257.	1.6	9
18	Initialising landslide-generated tsunamis for probabilistic tsunami hazard assessment in Cook Strait. The International Journal of Ocean and Climate Systems, 2016, 7, 4-13.	0.8	9

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19	Tsunami impact assessment: development of vulnerability matrix for critical infrastructure and application to Christchurch, New Zealand. Natural Hazards, 2019, 96, 1167-1211.	3.4	9
20	Towards a Spatial Probabilistic Submarine Landslide Hazard Model for Submarine Canyons. Advances in Natural and Technological Hazards Research, 2016, , 589-597.	1.1	9
21	Effects of Source Faulting and Fringing Reefs on the 2009 South Pacific Tsunami Inundation in Southeast Upolu, Samoa. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016537.	2.6	8
22	Probabilistic Hazard of Tsunamis Generated by Submarine Landslides in the Cook Strait Canyon (New) Tj ETQqO	0 0 rgBT / 1 . 9	Overlock 10 T
23	Sedimentary and geochemical signature of the 2016 KaikÅura Tsunami at Little Pigeon Bay: A depositional benchmark for the Banks Peninsula region, New Zealand. Sedimentary Geology, 2018, 369, 60-70.	2.1	7
24	Changes in Tsunami Risk to Residential Buildings at Omaha Beach, New Zealand. Geosciences (Switzerland), 2019, 9, 113.	2.2	7
25	Multilayer modelling of waves generated by explosive subaqueous volcanism. Natural Hazards and Earth System Sciences, 2022, 22, 617-637.	3.6	7
26	Tsunami inundation modelling using RiCOM. Australian Journal of Civil Engineering, 2011, 9, 83-98.	1.6	6
27	Laboratory Experiments on Tsunamigenic Discrete Subaqueous Volcanic Eruptions. Part 2: Properties of Generated Waves. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016587.	2.6	6
28	Numerical Simulations of a Fluidized Granular Flow Entry Into Water: Insights Into Modeling Tsunami Generation by Pyroclastic Density Currents. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	6
29	Tsunami damage and post-event disruption assessment of road and electricity infrastructure: A collaborative multi-agency approach in ÅŒtautahi Christchurch, Aotearoa New Zealand. International Journal of Disaster Risk Reduction, 2022, 72, 102841.	3.9	6
30	Submarine Mass Movements and Their Consequences: Progress and Challenges. Advances in Natural and Technological Hazards Research, 2016, , 1-12.	1.1	5
31	Modelling residential habitability and human displacement for tsunami scenarios in Christchurch, New Zealand. International Journal of Disaster Risk Reduction, 2020, 43, 101403.	3.9	5
32	Verification of RiCOM for Storm Surge Forecasting. Marine Geodesy, 2009, 32, 118-132.	2.0	4
33	The sedimentology and tsunamigenic potential of the Byron submarine landslide off New South Wales, Australia. Geological Society Special Publication, 2020, 500, 27-40.	1.3	4
34	Laboratory Experiments on Tsunamigenic Discrete Subaqueous Volcanic Eruptions. Part 1: Free Surface Disturbances. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016588.	2.6	4
35	Interference effect on tsunami generation by segmented seafloor deformations. Ocean Engineering, 2022, 245, 110244.	4.3	4
36	Forecasting extreme sea level events and coastal inundation from tides, surge and wave setup. Australian Journal of Civil Engineering, 2011, 9, 99-112.	1.6	3

#	Article	IF	CITATIONS
37	The scientific response to the 14 November 2016 KaikÅura tsunami – Lessons learnt from a moderate event. International Journal of Disaster Risk Reduction, 2020, 47, 101636.	3.9	3
38	Five years after the 14 November 2016 KaikÅura Tsunami in Aotearoa-New Zealand: insights from recent research. New Zealand Journal of Geology, and Geophysics, 2023, 66, 147-161.	1.8	3
39	Waves Generated by Discrete and Sustained Gas Eruptions With Implications for Submarine Volcanic Tsunamis. Geophysical Research Letters, 2021, 48, e2021GL094539.	4.0	3
40	Tsunami or storm deposit? A late Holocene sedimentary record from Swamp Bay, Rangitoto ki te Tonga/D'Urville Island, Aotearoa – New Zealand. New Zealand Journal of Geology, and Geophysics, 0, , 1-17.	1.8	0