

Emily Margaret Lane

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

869
citations

686830

13
h-index

500791

28
g-index

45
all docs

45
docs citations

45
times ranked

1009
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An asymptotic theory for the interaction of waves and currents in coastal waters. <i>Journal of Fluid Mechanics</i> , 2004, 511, 135-178. | 1.4 | 263 |
| 2 | Wave-Current Interaction: A Comparison of Radiation-Stress and Vortex-Force Representations. <i>Journal of Physical Oceanography</i> , 2007, 37, 1122-1141. | 0.7 | 87 |
| 3 | A possible sequence of events for the generalized glacial-interglacial cycle. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a. | 1.9 | 59 |
| 4 | Tsunami runup and tide-gauge observations from the 14 November 2016 M7.8 KaikÅ¸ura earthquake, New Zealand. <i>Pure and Applied Geophysics</i> , 2017, 174, 2457-2473. | 0.8 | 48 |
| 5 | A Refractive Index Mapping Operator for Assimilation of Occultation Data. <i>Monthly Weather Review</i> , 2005, 133, 2650-2668. | 0.5 | 41 |
| 6 | A Probabilistic Tsunami Hazard Study of the Auckland Region, Part I: Propagation Modelling and Tsunami Hazard Assessment at the Shoreline. <i>Pure and Applied Geophysics</i> , 2013, 170, 1621-1634. | 0.8 | 35 |
| 7 | A study of tides and currents in Cook Strait, New Zealand. <i>Ocean Dynamics</i> , 2010, 60, 1559-1580. | 0.9 | 33 |
| 8 | A vortex force analysis of the interaction of rip currents and surface gravity waves. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 30 |
| 9 | A Probabilistic Tsunami Hazard Study of the Auckland Region, Part II: Inundation Modelling and Hazard Assessment. <i>Pure and Applied Geophysics</i> , 2013, 170, 1635-1646. | 0.8 | 27 |
| 10 | Useful time-stepping methods for the Coriolis term in a shallow water model. <i>Ocean Modelling</i> , 2009, 28, 66-74. | 1.0 | 19 |
| 11 | A mechanism for switching near a heteroclinic network. <i>Dynamical Systems</i> , 2010, 25, 323-349. | 0.2 | 19 |
| 12 | Estimating tsunami run-up. <i>Natural Hazards</i> , 2016, 80, 1933-1947. | 1.6 | 17 |
| 13 | Effects of Inundation by the 14th November, 2016 KaikÅ¸ura Tsunami on Banks Peninsula, Canterbury, New Zealand. <i>Pure and Applied Geophysics</i> , 2017, 174, 1855-1874. | 0.8 | 15 |
| 14 | Shoreface-connected ridges under the action of waves and currents. <i>Journal of Fluid Mechanics</i> , 2007, 582, 23-52. | 1.4 | 12 |
| 15 | Assessing transportation vulnerability to tsunamis: utilising post-event field data from the 2011 TÅ¸hoku tsunami, Japan, and the 2015 Illapel tsunami, Chile. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 451-470. | 1.5 | 11 |
| 16 | Coupled Modelling of the Failure and Tsunami of a Submarine Debris Avalanche Offshore Central New Zealand. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 599-606. | 1.1 | 11 |
| 17 | A dynamic-flow carbon-cycle box model and high-latitude sensitivity. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 58, 257. | 0.8 | 9 |
| 18 | Initialising landslide-generated tsunamis for probabilistic tsunami hazard assessment in Cook Strait. <i>The International Journal of Ocean and Climate Systems</i> , 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. <i>Natural Hazards</i> , 2019, 96, 1167-1211. | 1.6 | 9 |
| 20 | Towards a Spatial Probabilistic Submarine Landslide Hazard Model for Submarine Canyons. <i>Advances in Natural and Technological Hazards Research</i> , 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. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016537. | 1.0 | 8 |
| 22 | Probabilistic Hazard of Tsunamis Generated by Submarine Landslides in the Cook Strait Canyon (New Zealand). <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, e2021JC018710. | 0.8 | 7 |
| 23 | Sedimentary and geochemical signature of the 2016 Kaikōura Tsunami at Little Pigeon Bay: A depositional benchmark for the Banks Peninsula region, New Zealand. <i>Sedimentary Geology</i> , 2018, 369, 60-70. | 1.0 | 7 |
| 24 | Changes in Tsunami Risk to Residential Buildings at Omaha Beach, New Zealand. <i>Geosciences (Switzerland)</i> , 2019, 9, 113. | 1.0 | 7 |
| 25 | Multilayer modelling of waves generated by explosive subaqueous volcanism. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 617-637. | 1.5 | 7 |
| 26 | Tsunami inundation modelling using RiCOM. <i>Australian Journal of Civil Engineering</i> , 2011, 9, 83-98. | 0.6 | 6 |
| 27 | Laboratory Experiments on Tsunamigenic Discrete Subaqueous Volcanic Eruptions. Part 2: Properties of Generated Waves. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016587. | 1.0 | 6 |
| 28 | Numerical Simulations of a Fluidized Granular Flow Entry Into Water: Insights Into Modeling Tsunami Generation by Pyroclastic Density Currents. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JC016587. | 1.4 | 6 |
| 29 | Tsunami damage and post-event disruption assessment of road and electricity infrastructure: A collaborative multi-agency approach in Christchurch, Aotearoa New Zealand. <i>International Journal of Disaster Risk Reduction</i> , 2022, 72, 102841. | 1.8 | 6 |
| 30 | Submarine Mass Movements and Their Consequences: Progress and Challenges. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 1-12. | 1.1 | 5 |
| 31 | Modelling residential habitability and human displacement for tsunami scenarios in Christchurch, New Zealand. <i>International Journal of Disaster Risk Reduction</i> , 2020, 43, 101403. | 1.8 | 5 |
| 32 | Verification of RiCOM for Storm Surge Forecasting. <i>Marine Geodesy</i> , 2009, 32, 118-132. | 0.9 | 4 |
| 33 | The sedimentology and tsunamigenic potential of the Byron submarine landslide off New South Wales, Australia. <i>Geological Society Special Publication</i> , 2020, 500, 27-40. | 0.8 | 4 |
| 34 | Laboratory Experiments on Tsunamigenic Discrete Subaqueous Volcanic Eruptions. Part 1: Free Surface Disturbances. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016588. | 1.0 | 4 |
| 35 | Interference effect on tsunami generation by segmented seafloor deformations. <i>Ocean Engineering</i> , 2022, 245, 110244. | 1.9 | 4 |
| 36 | Forecasting extreme sea level events and coastal inundation from tides, surge and wave setup. <i>Australian Journal of Civil Engineering</i> , 2011, 9, 99-112. | 0.6 | 3 |

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|----|---|-----|-----------|
| 37 | The scientific response to the 14 November 2016 Kaik ura tsunami â€“ Lessons learnt from a moderate event. <i>International Journal of Disaster Risk Reduction</i> , 2020, 47, 101636. | 1.8 | 3 |
| 38 | Five years after the 14 November 2016 Kaik ura Tsunami in Aotearoa-New Zealand: insights from recent research. <i>New Zealand Journal of Geology, and Geophysics</i> , 2023, 66, 147-161. | 1.0 | 3 |
| 39 | Waves Generated by Discrete and Sustained Gas Eruptions With Implications for Submarine Volcanic Tsunamis. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094539. | 1.5 | 3 |
| 40 | Tsunami or storm deposit? A late Holocene sedimentary record from Swamp Bay, Rangitoto ki te Tonga/D urville Island, Aotearoa â€“ New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 0, , 1-17. | 1.0 | 0 |