David Lallemant

List of Publications by Year
in descending order

29 papers	728 citations	840585 11 h-index	610775 24 g-index
36 all docs	36 docs citations	36 times ranked	631 citing authors

#	Article	IF	Citations
1	Statistical procedures for developing earthquake damage fragility curves. Earthquake Engineering and Structural Dynamics, 2015, 44, 1373-1389.	2.5	158
2	Framework for Incorporating Probabilistic Building Performance in the Assessment of Community Seismic Resilience. Journal of Structural Engineering, 2016, 142, .	1.7	134
3	A Comprehensive Analysis of Building Damage in the 12 January 2010 Mw7 Haiti Earthquake Using High-Resolution Satelliteand Aerial Imagery. Photogrammetric Engineering and Remote Sensing, 2011, 77, 997-1009.	0.3	78
4	Development of empirical and analytical fragility functions using kernel smoothing methods. Earthquake Engineering and Structural Dynamics, 2015, 44, 1163-1180.	2.5	55
5	Invited perspectives: How machine learning will change flood risk and impact assessment. Natural Hazards and Earth System Sciences, 2020, 20, 1149-1161.	1.5	46
6	Measuring the Impact of Enhanced Building Performance on the Seismic Resilience of a Residential Community. Earthquake Spectra, 2017, 33, 1347-1367.	1.6	31
7	G-DIF: A geospatial data integration framework to rapidly estimate post-earthquake damage. Earthquake Spectra, 2020, 36, 1695-1718.	1.6	24
8	Nature-based solutions for flood risk reduction: A probabilistic modeling framework. One Earth, 2021, 4, 1310-1321.	3.6	21
9	A Beta Distribution Model for Characterizing Earthquake Damage State Distribution. Earthquake Spectra, 2015, 31, 1337-1352.	1.6	19
10	Modeling Downward Counterfactual Events: Unrealized Disasters and why they Matter. Frontiers in Earth Science, 2020, 8, .	0.8	19
11	Tephra cushioning of ballistic impacts: Quantifying building vulnerability through pneumatic cannon experiments and multiple fragility curve fitting approaches. Journal of Volcanology and Geothermal Research, 2019, 388, 106711.	0.8	13
12	Damage assessment for the 2018 lower East Rift Zone lava flows of KÄ«lauea volcano, HawaiÊ»i. Bulletin of Volcanology, 2022, 84, .	1.1	13
13	A Framework and Case Study for Earthquake Vulnerability Assessment of Incrementally Expanding Buildings. Earthquake Spectra, 2017, 33, 1369-1384.	1.6	11
14	The Disaster and Climate Change Artathon. , 2020, , .		11
15	Adaptive decision-making for civil infrastructure systems and communities exposed to evolving risks. Structural Safety, 2018, 75, 1-12.	2.8	10
16	Tsunami damage to ports: cataloguing damage to create fragility functions from the 2011ÂTohoku event. Natural Hazards and Earth System Sciences, 2021, 21, 1887-1908.	1.5	10
17	Filling the Disaster Data Gap: Lessons from Cataloging Singaporeâ€™s Past Disasters. International Journal of Disaster Risk Science, 2021, 12, 188-204.	1.3	6
18	Becoming Interdisciplinary. Proceedings of the ACM on Human-Computer Interaction, 2021, 5, 1-27.	2.5	6

#	Article	IF	Citations
19	Towards Regional Scale Stormwater Flood Management Strategies through Rapid Preliminary Intervention Screening. Water (Switzerland), 2021, 13, 2027.	1.2	6
20	Asiaâ€™s looming Black Elephant events. Communications Earth & Environment, 2021, 2, .	2.6	6
21	Learning From Success, Not Catastrophe: Using Counterfactual Analysis to Highlight Successful Disaster Risk Reduction Interventions. Frontiers in Earth Science, 2022, 10, .	0.8	6
22	Order Matters: The Benefits of Ordinal Fragility Curves for Damage and Loss Estimation. Risk Analysis, 2022, 42, 1136-1148.	1.5	5
23	Remote sensing of volcanic impacts. , 2021, , 473-491.		4
24	Adaptive Decision Framework for Civil Infrastructure exposed to Evolving Risks. Procedia Engineering, 2018, 212, 435-442.	1.2	2
25	Factors affecting earthquake respondersâ€™ building damage information needs and use. Earthquake Spectra, 0, , 875529302110302.	1.6	2
26	Development of empirical and analytical fragility functions using Gaussian kernel smoothing methods. , 2014, , 895-902.		2
27	THE RISKS AND RESILIENCE OF CITIES. Exploring Complexity, 2018, , 65-71.	0.1	1
28	The State of Haiti. Berkeley Planning Journal, 2011, 23, .	0.8	0
29	Rapid post-earthquake damage estimation using remote-sensing and field-based damage data integration. , 2014, , 3399-3406.		0