Hyoungsu Park

List of Publications by Year
in descending order

23 papers	862 citations	623574 14 h-index	642610 23 g-index
23 all docs	23 docs citations	23 times ranked	721 citing authors

#	Article	IF	Citations
1	An agent-based model of a multimodal near-field tsunami evacuation: Decision-making and life safety. Transportation Research Part C: Emerging Technologies, 2016, 64, 86-100.	3.9	173
2	Tsunami inundation modeling in constructed environments: A physical and numerical comparison of free-surface elevation, velocity, and momentum flux. Coastal Engineering, 2013, 79, 9-21.	1.7	129
3	Probabilistic decision-support framework for community resilience: Incorporating multi-hazards, infrastructure interdependencies, and resilience goals in a Bayesian network. Reliability Engineering and System Safety, 2019, 191, 106568.	5.1	75
4	Experimental modeling of horizontal and vertical wave forces on an elevated coastal structure. Coastal Engineering, 2017, 128, 58-74.	1.7	72
5	Probabilistic assessment of near-field tsunami hazards: Inundation depth, velocity, momentum flux, arrival time, and duration applied to Seaside, Oregon. Coastal Engineering, 2016, 117, 79-96.	1.7	61
6	Comparison of inundation depth and momentum flux based fragilities for probabilistic tsunami damage assessment and uncertainty analysis. Coastal Engineering, 2017, 122, 10-26.	1.7	61
7	Probabilistic seismic and tsunami damage analysis (PSTDA) of the Cascadia Subduction Zone applied to Seaside, Oregon. International Journal of Disaster Risk Reduction, 2019, 35, 101076.	1.8	42
8	Numerical modeling of non-breaking, impulsive breaking, and broken wave interaction with elevated coastal structures: Laboratory validation and inter-model comparisons. Ocean Engineering, 2018, 158, 78-98.	1.9	32
9	Empirical wave run-up formula for wave, storm surge and berm width. Coastal Engineering, 2016, 115, 67-78.	1.7	27
10	Probabilistic Seismic and Tsunami Hazard Analysis Conditioned on a Megathrust Rupture of the Cascadia Subduction Zone. Frontiers in Built Environment, 2017, 3, .	1.2	27
11	Application of the Goda pressure formulae for horizontal wave loads on elevated structures. KSCE Journal of Civil Engineering, 2014, 18, 1573-1579.	0.9	22
12	Probabilistic Tsunami Hazard Assessment (PTHA) for resilience assessment of a coastal community. Natural Hazards, 2018, 94, 1117-1139.	1.6	19
13	A deterministic approach for assessing tsunami-induced building damage through quantification of hydrodynamic forces. Coastal Engineering, 2019, 144, 1-14.	1.7	17
14	Modified Goda Equations to Predict Pressure Distribution and Horizontal Forces for Design of Elevated Coastal Structures. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, .	0.5	15
15	An empirical solution for tsunami run-up on compound slopes. Natural Hazards, 2015, 76, 1727-1743.	1.6	14
16	Effects of advection on predicting construction debris for vulnerability assessment under multi-hazard earthquake and tsunami. Coastal Engineering, 2019, 153, 103541.	1.7	14
17	Effect of disaster debris, floodwater pooling duration, and bridge damage on immediate post-tsunami connectivity. International Journal of Disaster Risk Reduction, 2021, 56, 102119.	1.8	14
18	Experimental study of debris transport driven by a tsunami-like wave: Application for non-uniform density groups and obstacles. Coastal Engineering, 2021, 166, 103867.	1.7	14

#	Article	IF	Citations
19	Physical modeling of progressive damage and failure of wood-frame coastal residential structures due to surge and wave forces. Coastal Engineering, 2021, 169, 103959.	1.7	14
20	TSUNAMI INUNDATION MODELING: SENSITIVITY OF VELOCITY AND MOMENTUM FLUX TO BOTTOM FRICTION WITH APPLICATION TO BUILDING DAMAGE AT SEASIDE, OREGON. Coastal Engineering Proceedings, 2015, 1, 1.	0.1	9
21	Integrated Engineering-Economic Model for the Assessment of Regional Economic Vulnerability to Tsunamis. Natural Hazards Review, 2018, 19, 04018018.	0.8	5
22	Physical Modeling of Horizontal and Vertical Tsunami Forces on the Elevated Overland Structure. Journal of Coastal Research, 2019, 91, 51.	0.1	4
23	Improvement of empirical formulas to estimate the reduction effects by berms on irregular wave runup over a dune-berm coast. Coastal Engineering, 2022, 176, 104166.	1.7	2