Seung-Hyun Eem

List of Publications by Year
in descending order

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32	403	933447	752698
papers	citations	10 h-index	20 g-index

33	33	33	335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improvement on optimal design of dynamic absorber for enhancing seismic performance of nuclear piping using adaptive Kriging method. Nuclear Engineering and Technology, 2022, 54, 1712-1725.	2.3	1
2	Shaking table test and numerical analysis of nuclear piping under low- and high-frequency earthquake motions. Nuclear Engineering and Technology, 2022, 54, 3361-3379.	2.3	3
3	A Study on the Effects of Nuclear Power Plant Structure-Component Interaction in Component Seismic Responses. Journal of the Computational Structural Engineering Institute of Korea, 2022, 35, 83-91.	0.4	3
4	Evaluation of Structural and Functional Behavior of Battery Charger for Low/High-Frequency Motions in NPP. Applied Sciences (Switzerland), 2022, 12, 4328.	2.5	1
5	On improving seismic risk and cost for nuclear energy facility based on multi-objective optimization considering seismic correlation. Energy Reports, 2022, 8, 7230-7241.	5.1	3
6	Seismic Fragility Evaluation of Main Steam Piping of Isolated APR1400 NPP Considering the Actual Failure Mode. Sustainability, 2022, 14, 8315.	3.2	2
7	Seismic response correlation coefficient for the structures, systems and components of the Korean nuclear power plant for seismic probabilistic safety assessment. Annals of Nuclear Energy, 2021, 150, 107759.	1.8	8
8	Methodology of seismic-response-correlation-coefficient calculation for seismic probabilistic safety assessment of multi-unit nuclear power plants. Nuclear Engineering and Technology, 2021, 53, 967-973.	2.3	10
9	Mitigation of seismic responses of actual nuclear piping by a newly developed tuned mass damper device. Nuclear Engineering and Technology, 2021, 53, 2728-2728.	2.3	13
10	The Effects of Seismic Failure Correlations on the Probabilistic Seismic Safety Assessments of Nuclear Power Plants. Journal of the Earthquake Engineering Society of Korea, 2021, 25, 53-58.	0.2	2
11	Suggestions for Enhancing Sampling-Based Approach of Seismic Probabilistic Risk Assessment. Journal of the Computational Structural Engineering Institute of Korea, 2021, 34, 77-84.	0.4	1
12	Seismic Performance of Piping Systems of Isolated Nuclear Power Plants Determined by Numerical Considerations. Energies, 2021, 14, 4028.	3.1	1
13	Dynamic characteristics of single door electrical cabinet under rocking: Source reconciliation of experimental and numerical findings. Nuclear Engineering and Technology, 2021, 53, 2387-2395.	2.3	13
14	Toward improvement of sampling-based seismic probabilistic safety assessment method for nuclear facilities using composite distribution and adaptive discretization. Reliability Engineering and System Safety, 2021, 215, 107809.	8.9	10
15	Feasibility Study of Seismic Probabilistic Risk Assessment for Multi-unit NPP with Seismic Failure Correlation. Journal of the Computational Structural Engineering Institute of Korea, 2021, 34, 319-325.	0.4	2
16	Development of a Probabilistic Seismic Performance Assessment Model of Slope Using Machine Learning Methods. Sustainability, 2020, 12, 3269.	3.2	9
17	Evaluation Model of Seismic Response Behavior and Performance of Nuclear Plant Piping Systems. Journal of the Korean Society for Advanced Composite Structures, 2020, 11, 54-62.	0.3	3
18	A Shape of the Response Spectrum for Evaluation of the Ultimate Seismic Capacity of Structures and Equipment including High-frequency Earthquake Characteristics. Journal of the Earthquake Engineering Society of Korea, 2020, 24, 1-8.	0.2	3

#	Article	IF	Citations
19	Sampling-based Approach for Seismic Probabilistic Risk Assessment. Journal of the Computational Structural Engineering Institute of Korea, 2020, 33, 129-136.	0.4	3
20	Enhanced mechanical and thermal properties of carbon fiber-reinforced thermoplastic polyketone composites. Composites Part A: Applied Science and Manufacturing, 2019, 126, 105599.	7.6	26
21	Sensitivity analysis for the distribution of maximum responses by seismic isolation system parameters using the stochastic response database. Nuclear Engineering and Design, 2019, 347, 53-58.	1.7	6
22	Large strain nonlinear model of lead rubber bearings for beyond design basis earthquakes. Nuclear Engineering and Technology, 2019, 51, 600-606.	2.3	25
23	Feasibility study of an adaptive mount system based on magnetorheological elastomer using real-time hybrid simulation. Journal of Intelligent Material Systems and Structures, 2019, 30, 701-707.	2.5	20
24	Influence Analysis of Seismic Risk due to the Failure Correlation in Seismic Probabilistic Safety Assessment. Journal of the Earthquake Engineering Society of Korea, 2019, 23, 101-108.	0.2	5
25	Simplified Methodology for Urban Flood Damage Assessment at Building Scale using Open Data. Journal of Coastal Research, 2018, 85, 1396-1400.	0.3	2
26	Flood Damage Assessment in Building Scale Caused by the Coastal Inundation Height at Haeundae Beach, Busan. Journal of Coastal Research, 2018, 85, 1561-1565.	0.3	1
27	A probabilistic micromechanical modeling for electrical properties of nanocomposites with multi-walled carbon nanotube morphology. Composites Part A: Applied Science and Manufacturing, 2017, 92, 108-117.	7.6	30
28	Seismic response distribution estimation for isolated structures using stochastic response database. Earthquake and Structures, 2015, 9, 937-956.	1.0	8
29	Modeling of Magneto-Rheological Elastomers for Harmonic Shear Deformation. IEEE Transactions on Magnetics, 2012, 48, 3080-3083.	2.1	62
30	Formulation and Design of a Pendulum-Type Tuned Mass Damper System for Mitigation Vibration of a Ropeway Carrier. Advanced Science Letters, 2012, 13, 642-645.	0.2	0
31	Application of MR Elastomers for Improving Seismic Protection of Base-Isolated Structures. IEEE Transactions on Magnetics, 2011, 47, 2901-2904.	2.1	67
32	Seismic Performance Analysis of A Smart Base-isolation System Considering Dynamics of MR Elastomers. Journal of Intelligent Material Systems and Structures, 2011, 22, 1439-1450.	2.5	60