Abhinav Gupta

List of Publications by Year
in descending order

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52	608	687363 13	677142 22
papers	citations	h-index	g-index

53	53	53	337
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Methodological Approach to Update Ground Motion Prediction Models Using Bayesian Inference. Pure and Applied Geophysics, 2022, 179, 247-264.	1.9	4
2	Effect of Boundary Conditions on Seismic Response of Electrical Equipment subjected to High-Frequency Ground Motions. Annals of Nuclear Energy, 2022, 168, 108878.	1.8	0
3	Seismic response of electrical equipment subjected to highâ€“frequency ground motions. Nuclear Engineering and Design, 2021, 374, 111046.	1.7	10
4	A Closed-Form Solution to Characterize the Behavior of Piping T-Joints. International Journal of Steel Structures, 2021, 21, 1398-1407.	1.3	0
5	Seismic Fragility of Piping Nozzles in Nuclear Power Plants: A Case for Updating the Current State-of-Practice. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.6	3
6	Neural closure models for dynamical systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	16
7	Significance of multi-hazard risk in design of buildings under earthquake and wind loads. Engineering Structures, 2021, 243, 112623.	5.3	13
8	Understanding the seismic response of electrical equipment subjected to highâ€“frequency ground motions. Progress in Nuclear Energy, 2021, 140, 103915.	2.9	1
9	Application of Risk-Informed Validation Framework to a Flooding Scenario. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, 04021044.	1.7	2
10	Modeling the behavior of reinforced concrete slabs subjected to impact. Nuclear Engineering and Design, 2021, 385, 111512.	1.7	5
11	Risk informed validation framework for external flooding scenario. Nuclear Engineering and Design, 2020, 356, 110377.	1.7	13
12	Enhancement of risk informed validation framework for external hazard scenario. Reliability Engineering and System Safety, 2020, 204, 107140.	8.9	9
13	Limitations of traditional tools for beyond design basis external hazard PRA. Nuclear Engineering and Design, 2020, 370, 110899.	1.7	4
14	Sparse Regression and Adaptive Feature Generation for the Discovery of Dynamical Systems. Lecture Notes in Computer Science, 2020, , 208-216.	1.3	7
15	A Framework for Simulation-Based Internal Flooding Risk Assessment. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.6	0
16	Current state of in-cabinet response spectra for seismic qualification of equipment in nuclear power plants. Nuclear Engineering and Design, 2019, 343, 269-275.	1.7	16
17	Suppression of vortex shedding in flow around a square cylinder using control cylinder. European Journal of Mechanics, B/Fluids, 2019, 76, 276-291.	2.5	18
18	Flow Maps and Coherent Sets for Characterizing Residence Times and Connectivity in Lagoons and Coral Reefs: The Case of the Red Sea. , 2019, , .		3

#	Article	IF	Citations
19	SeaVizKit: Interactive Maps for Ocean Visualization. , 2019, , .		3
20	Fish Modeling and Bayesian Learning for the Lakshadweep Islands. , 2019, , .		13
21	Fragility Evaluation in Building-Piping Systems: Effect of Piping Interaction With Buildings. Journal of Pressure Vessel Technology, Transactions of the ASME, 2019, 141, .	0.6	5
22	Simulation of Constrained Variables in Engineering Risk Analyses. American Statistician, 2018, 72, 130-139.	1.6	0
23	Probabilistic risk assessment based model validation method using Bayesian network. Reliability Engineering and System Safety, 2018, 169, 380-393.	8.9	56
24	Computationally efficient fragility assessment using equivalent elastic limit state and Bayesian updating. Computers and Structures, 2018, 197, 1-11.	4.4	16
25	Real-time sediment plume modeling in the Southern California bight. , 2018, , .		14
26	Seismic Fragility of Steel Piping System Based on Pipe Size, Coupling Type, and Wall Thickness. International Journal of Steel Structures, 2018, 18, 1200-1209.	1.3	4
27	Structural fragility of T-joint connections in large-scale piping systems using equivalent elastic time-history simulations. Structural Safety, 2017, 65, 49-59.	5.3	9
28	Piping Fragility Evaluation: Interaction With High-Rise Building Performance. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.6	7
29	Performance-Based Reliability of ASME Piping Design Equations. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.6	3
30	Probabilistic risk assessment framework for structural systems under multiple hazards using Bayesian statistics. Nuclear Engineering and Design, 2017, 315, 20-34.	1.7	47
31	Significance of non-classical damping in seismic qualification of equipment and piping. Nuclear Engineering and Design, 2017, 317, 90-99.	1.7	14
32	Optimal Planning and Sampling Predictions for Autonomous and Lagrangian Platforms and Sensors in the Northern Arabian Sea. Oceanography, 2017, 30, 172-185.	1.0	33
33	Bayesian Network Technique in Probabilistic Risk Assessment for Multiple Hazards. , 2016, , .		4
34	A reconciliation of experimental and analytical results for piping systems. International Journal of Steel Structures, 2016, 16, 1043-1055.	1.3	10
35	Seismic fragility of RC shear walls in nuclear power plant Part 1: Characterization of uncertainty in concrete constitutive model. Nuclear Engineering and Design, 2015, 295, 576-586.	1.7	12
36	Seismic fragility of RC shear walls in nuclear power plant part 2: Influence of uncertainty in material parameters on fragility of concrete shear walls. Nuclear Engineering and Design, 2015, 295, 587-596.	1.7	10

#	Article	IF	Citations
37	Seismic fragility of threaded Tee-joint connections in piping systems. International Journal of Pressure Vessels and Piping, 2015, 132-133, 106-118.	2.6	30
38	Sampling of closelyâ€spaced ordered set of uniformly distributed random variables. International Journal for Numerical Methods in Engineering, 2012, 89, 354-370.	2.8	1
39	A genetic algorithm for design of moment-resisting steel frames. Structural and Multidisciplinary Optimization, 2011, 44, 559-574.	3.5	31
40	Computational framework for remotely operable laboratories. Engineering With Computers, 2008, 24, 405-415.	6.1	0
41	Combination of modal responses: A closed-form formulation for rigid response coefficient. Nuclear Engineering and Design, 2007, 237, 2075-2082.	1.7	3
42	Consideration of uncertainties in seismic analysis of coupled building piping systems. Nuclear Engineering and Design, 2005, 235, 2071-2086.	1.7	9
43	Genetic Algorithm-Based Decision Support for Optimizing Seismic Response of Piping Systems. Journal of Structural Engineering, 2005, 131, 389-398.	3.4	15
44	Modeling the Dynamic Behavior of Electrical Cabinets and Control Panels: Experimental and Analytical Results. Journal of Structural Engineering, 2004, 130, 511-519.	3.4	20
45	Rocking stiffness of mounting arrangements in electrical cabinets and control panels. Nuclear Engineering and Design, 2003, 219, 127-141.	1.7	21
46	Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. Journal of Structural Engineering, 2002, 128, 1231-1235.	3.4	1
47	Modified Ritz vector approach for dynamic properties of electrical cabinets and control panels. Nuclear Engineering and Design, 2002, 217, 49-62.	1.7	25
48	Ritz vector approach for evaluating incabinet response spectra. Nuclear Engineering and Design, 1999, 190, 255-272.	1.7	40
49	Missing Mass Effect in Coupled Analysis. I: Complex Modal Properties. Journal of Structural Engineering, 1998, 124, 490-495.	3.4	13
50	Missing Mass Effect in Coupled Analysis. II: Residual Response. Journal of Structural Engineering, 1998, 124, 496-500.	3.4	9
51	Seismic response of tuned single degree of freedom secondary systems. Nuclear Engineering and Design, 1997, 172, 17-25.	1.7	2
52	Digital Engineering for Integrated Modeling and Simulation for Building-Piping Systems Through Interoperability Solutions. Nuclear Science and Engineering, 0, , 1-18.	1.1	1