Budhaditya Hazra

List of Publications by Year
in descending order

		840776	752698
29 papers	410 citations	11 h-index	20 g-index
29 all docs	29 docs citations	29 times ranked	309 citing authors

#	Article	IF	Citations
1	An adaptive scheme for random field discretization using KL expansion. Engineering With Computers, 2022, 38, 2937-2954.	6.1	2
2	Online damage detection of earthquake-excited structure based on near real-time envelope extraction. Structural Health Monitoring, 2022, 21, 298-319.	7.5	5
3	A computational framework for mean square responses of bidirectional nonlinear systems under correlated stochastic excitation. Journal of Sound and Vibration, 2022, 523, 116689.	3.9	3
4	Change of Measure Enhanced Near-Exact Euler–Maruyama Scheme for the Solution to Nonlinear Stochastic Dynamical Systems. Journal of Engineering Mechanics - ASCE, 2022, 148, .	2.9	7
5	A mathematically consistent stochastic simulation of a 3D pendulum tuned mass damper and tuning. Nonlinear Dynamics, 2022, 109, 401-418.	5.2	1
6	A shape memory alloy-tuned mass damper inerter system for passive control of linked-SDOF structural systems under seismic excitation. Journal of Sound and Vibration, 2021, 494, 115893.	3.9	40
7	Optimizing grinding operation with correlated uncertain parameters. Materials and Manufacturing Processes, 2021, 36, 713-721.	4.7	12
8	First-Order Error-Adapted Eigen Perturbation for Real-Time Modal Identification of Vibrating Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 2021, 143, .	1.6	12
9	MTMDI for Mitigating Wind-Induced Responses of Linked High-Rise Buildings. Journal of Structural Engineering, 2021, 147, .	3.4	13
10	Special Section on Risk and Uncertainties in Offshore Wind and Wave Energy Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2021, 7, .	1.1	0
11	Iterative Polynomial Dimensional Decomposition approach towards solution of structural mechanics problems with material randomness. Probabilistic Engineering Mechanics, 2021, 66, 103159.	2.7	3
12	Toward a Big Data-Based Approach: A Review on Degradation Models for Prognosis of Critical Infrastructure. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2021, 4, .	0.9	14
13	Real-time damage detection of degrading systems. Structural Health Monitoring, 2020, 19, 810-837.	7.5	16
14	Study on wind-induced vibration control of linked high-rise buildings by using TMDI. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 205, 104306.	3.9	49
15	Long duration response evaluation of linear structural system with random system properties using time dependent polynomial chaos. Journal of Computational Physics, 2020, 418, 109596.	3.8	2
16	An Itoâ€"Taylor weak 3.0 method for stochastic dynamics of nonlinear systems. Applied Mathematical Modelling, 2020, 86, 115-141.	4.2	19
17	Higher-Order Stabilized Perturbation for Recursive Eigen-Decomposition Estimation. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.6	11
18	Modeling Dependence Among Suction, Moisture, and Cracking of a Novel Biochar Synthesized from Weed Species. Advances in Civil Engineering Materials, 2020, 9, 90-104.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Scour Damage Detection and Structural Health Monitoring of a Laboratory-Scaled Bridge Using a Vibration Energy Harvesting Device. Sensors, 2019, 19, 2572.	3.8	46
20	An iterative polynomial chaos approach for solution of structural mechanics problem with Gaussian material property. Journal of Computational Physics, 2019, 390, 425-451.	3.8	4
21	Effects of tuned mass damper on correlation of wind–induced responses and combination coefficients of equivalent static wind loads of high–rise buildings. Structural Design of Tall and Special Buildings, 2019, 28, e1597.	1.9	10
22	Probabilistic analysis of soil suction and cracking in fibre-reinforced soil under drying–wetting cycles in India. Environmental Geotechnics, 2019, 6, 188-203.	2.3	9
23	Real-time unified single- and multi-channel structural damage detection using recursive singular spectrum analysis. Structural Health Monitoring, 2019, 18, 563-589.	7.5	44
24	First-Order Eigen-Perturbation Techniques for Real-Time Damage Detection of Vibrating Systems: Theory and Applications. Applied Mechanics Reviews, 2019, 71, .	10.1	53
25	Data of piezoelectric vibration energy harvesting of a bridge undergoing vibration testing and train passage. Data in Brief, 2018, 17, 261-266.	1.0	11
26	Frequency–dependent principal component analysis of multicomponent earthquake ground motions. Earthquake Engineering and Structural Dynamics, 2018, 47, 1360-1366.	4.4	6
27	Stochastic modelling of relative water permeability in vegetative soils with implications on stability of bioengineered slope. Stochastic Environmental Research and Risk Assessment, 2018, 32, 3541-3559.	4.0	3
28	Stochastic Modeling of Relative Permeability for Vegetated Covers. International Journal of Geomechanics, 2018, 18, 06018020.	2.7	3
29	Impact of Hydrological and Mechanical Correlations on the Reliability of Vegetated Slopes. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.7	7