

# Budhaditya Hazra

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

410  
citations

840776

11  
h-index

752698

20  
g-index

29  
all docs

29  
docs citations

29  
times ranked

309  
citing authors

#	ARTICLE	IF	CITATIONS
1	First-Order Eigen-Perturbation Techniques for Real-Time Damage Detection of Vibrating Systems: Theory and Applications. <i>Applied Mechanics Reviews</i> , 2019, 71, .	10.1	53
2	Study on wind-induced vibration control of linked high-rise buildings by using TMDI. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 205, 104306.	3.9	49
3	Scour Damage Detection and Structural Health Monitoring of a Laboratory-Scaled Bridge Using a Vibration Energy Harvesting Device. <i>Sensors</i> , 2019, 19, 2572.	3.8	46
4	Real-time unified single- and multi-channel structural damage detection using recursive singular spectrum analysis. <i>Structural Health Monitoring</i> , 2019, 18, 563-589.	7.5	44
5	A shape memory alloy-tuned mass damper inerter system for passive control of linked-SDOF structural systems under seismic excitation. <i>Journal of Sound and Vibration</i> , 2021, 494, 115893.	3.9	40
6	An Itoâ€™Taylor weak 3.0 method for stochastic dynamics of nonlinear systems. <i>Applied Mathematical Modelling</i> , 2020, 86, 115-141.	4.2	19
7	Real-time damage detection of degrading systems. <i>Structural Health Monitoring</i> , 2020, 19, 810-837.	7.5	16
8	Toward a Big Data-Based Approach: A Review on Degradation Models for Prognosis of Critical Infrastructure. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2021, 4, .	0.9	14
9	MTMDI for Mitigating Wind-Induced Responses of Linked High-Rise Buildings. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	13
10	Optimizing grinding operation with correlated uncertain parameters. <i>Materials and Manufacturing Processes</i> , 2021, 36, 713-721.	4.7	12
11	First-Order Error-Adapted Eigen Perturbation for Real-Time Modal Identification of Vibrating Structures. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2021, 143, .	1.6	12
12	Data of piezoelectric vibration energy harvesting of a bridge undergoing vibration testing and train passage. <i>Data in Brief</i> , 2018, 17, 261-266.	1.0	11
13	Higher-Order Stabilized Perturbation for Recursive Eigen-Decomposition Estimation. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2020, 142, .	1.6	11
14	Effects of tuned mass damper on correlation of windâ€™induced responses and combination coefficients of equivalent static wind loads of highâ€™rise buildings. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1597.	1.9	10
15	Probabilistic analysis of soil suction and cracking in fibre-reinforced soil under dryingâ€™wetting cycles in India. <i>Environmental Geotechnics</i> , 2019, 6, 188-203.	2.3	9
16	Impact of Hydrological and Mechanical Correlations on the Reliability of Vegetated Slopes. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2017, 3, .	1.7	7
17	Change of Measure Enhanced Near-Exact Eulerâ€™Maruyama Scheme for the Solution to Nonlinear Stochastic Dynamical Systems. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	2.9	7
18	Frequencyâ€™dependent principal component analysis of multicomponent earthquake ground motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 1360-1366.	4.4	6

#	ARTICLE	IF	CITATIONS
19	Online damage detection of earthquake-excited structure based on near real-time envelope extraction. <i>Structural Health Monitoring</i> , 2022, 21, 298-319.	7.5	5
20	Modeling Dependence Among Suction, Moisture, and Cracking of a Novel Biochar Synthesized from Weed Species. <i>Advances in Civil Engineering Materials</i> , 2020, 9, 90-104.	0.6	5
21	An iterative polynomial chaos approach for solution of structural mechanics problem with Gaussian material property. <i>Journal of Computational Physics</i> , 2019, 390, 425-451.	3.8	4
22	Stochastic modelling of relative water permeability in vegetative soils with implications on stability of bioengineered slope. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 3541-3559.	4.0	3
23	Stochastic Modeling of Relative Permeability for Vegetated Covers. <i>International Journal of Geomechanics</i> , 2018, 18, 06018020.	2.7	3
24	Iterative Polynomial Dimensional Decomposition approach towards solution of structural mechanics problems with material randomness. <i>Probabilistic Engineering Mechanics</i> , 2021, 66, 103159.	2.7	3
25	A computational framework for mean square responses of bidirectional nonlinear systems under correlated stochastic excitation. <i>Journal of Sound and Vibration</i> , 2022, 523, 116689.	3.9	3
26	Long duration response evaluation of linear structural system with random system properties using time dependent polynomial chaos. <i>Journal of Computational Physics</i> , 2020, 418, 109596.	3.8	2
27	An adaptive scheme for random field discretization using KL expansion. <i>Engineering With Computers</i> , 2022, 38, 2937-2954.	6.1	2
28	A mathematically consistent stochastic simulation of a 3D pendulum tuned mass damper and tuning. <i>Nonlinear Dynamics</i> , 2022, 109, 401-418.	5.2	1
29	Special Section on Risk and Uncertainties in Offshore Wind and Wave Energy Systems. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2021, 7, .	1.1	0