

# Damodar Maity

## List of Publications by Year in descending order

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45  
papers

1,044  
citations

430442

18  
h-index

433756

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on chemically treated bamboo reinforced concrete beams and columns. <i>Construction and Building Materials</i> , 2014, 71, 610-617.	3.2	135
2	Damage assessment of truss structures from changes in natural frequencies using ant colony optimization. <i>Applied Mathematics and Computation</i> , 2012, 218, 9759-9772.	1.4	103
3	Damage assessment of structures using hybrid neuro-genetic algorithm. <i>Applied Soft Computing Journal</i> , 2007, 7, 89-104.	4.1	73
4	Damage assessment of structures from changes in natural frequencies using genetic algorithm. <i>Structural Engineering and Mechanics</i> , 2005, 19, 21-42.	1.0	62
5	Ant lion optimisation algorithm for structural damage detection using vibration data. <i>Journal of Civil Structural Health Monitoring</i> , 2019, 9, 117-136.	2.0	60
6	A parametric study on fluid-structure interaction problems. <i>Journal of Sound and Vibration</i> , 2003, 263, 917-935.	2.1	47
7	Damage assessment in structure from changes in static parameter using neural networks. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2004, 29, 315-327.	0.8	41
8	Predicting the compressive strength of unreinforced brick masonry using machine learning techniques validated on a case study of a museum through nondestructive testing. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 389-403.	2.0	33
9	Modal parameter based inverse approach for structural joint damage assessment using unified particle swarm optimization. <i>Applied Mathematics and Computation</i> , 2014, 242, 407-422.	1.4	30
10	Performance Studies of 10 Metaheuristic Techniques in Determination of Damages for Large-Scale Spatial Trusses from Changes in Vibration Responses. <i>Journal of Computing in Civil Engineering</i> , 2020, 34, .	2.5	26
11	Crack Assessment in Frame Structures Using Modal Data and Unified Particle Swarm Optimization Technique. <i>Advances in Structural Engineering</i> , 2014, 17, 747-766.	1.2	25
12	Multiverse Optimisation Algorithm for Capturing the Critical Slip Surface in Slope Stability Analysis. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 459-474.	0.8	25
13	A comparative study of regression, neural network and neuro-fuzzy inference system for determining the compressive strength of brick-mortar masonry by fusing nondestructive testing data. <i>Engineering With Computers</i> , 2021, 37, 77-91.	3.5	25
14	Vibration Based Structural Damage Detection Technique using Particle Swarm Optimization with Incremental Swarm Size. <i>International Journal of Aeronautical and Space Sciences</i> , 2012, 13, 323-331.	1.0	25
15	Influence of Sediment Layers on Dynamic Behavior of Aged Concrete Dams. <i>Journal of Engineering Mechanics - ASCE</i> , 2007, 133, 400-413.	1.6	24
16	Teaching-learning-based optimisation algorithm and its application in capturing critical slip surface in slope stability analysis. <i>Soft Computing</i> , 2020, 24, 2969-2982.	2.1	23
17	Characterization of liquid sloshing in U-shaped containers as dampers in high-rise buildings. <i>Ocean Engineering</i> , 2020, 210, 107462.	1.9	23
18	Structural health monitoring based on the hybrid ant colony algorithm by using Hooke's Jeeves pattern search. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	20

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19	Cost optimization of rectangular RC footing using GA and UPSO. <i>Soft Computing</i> , 2020, 24, 709-721.	2.1	20
20	Structural Damage Detection Based on Modal Parameters Using Continuous Ant Colony Optimization. <i>Advances in Civil Engineering</i> , 2014, 2014, 1-14.	0.4	17
21	Transient Response of Concrete Gravity Dam Considering Dam-Reservoir-Foundation Interaction. <i>Journal of Earthquake Engineering</i> , 2018, 22, 211-233.	1.4	16
22	Free Vibration Analysis of Delaminated Composite Plate Using 3D Degenerated Element. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	0.8	16
23	Support vector machine for determining the compressive strength of brick-mortar masonry using NDT data fusion (case study: Kharagpur, India). <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	16
24	Vibration-Based Delamination Detection in Composite Structures Employing Mixed Unified Particle Swarm Optimization. <i>AIAA Journal</i> , 2021, 59, 386-399.	1.5	16
25	Neural-network-based approach to predict the deflection of plain, steel-reinforced, and bamboo-reinforced concrete beams from experimental data. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	15
26	Numerical investigation on seismic behaviour of aged concrete gravity dams to near source and far source ground motions. <i>Natural Hazards</i> , 2021, 105, 943-966.	1.6	15
27	Pressure Based Eulerian Approach for Investigation of Sloshing in Rectangular Water Tank. <i>Procedia Engineering</i> , 2016, 144, 1187-1194.	1.2	14
28	Vibration-based damage detection of structures employing Bayesian data fusion coupled with TLBO optimization algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 2243.	1.7	14
29	Seismic Damage Analysis of Aged Concrete Gravity Dams. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2013, 14, 424-439.	1.4	13
30	Nonlinear finite element analysis of elastic water storage tanks. <i>Engineering Structures</i> , 2015, 99, 666-676.	2.6	11
31	Tensile characterisation of bamboo strips for potential use in reinforced concrete members: experimental and numerical study. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	10
32	Finite Element Analysis of Dam-Foundation Coupled System Considering Cone-Type Local Non-Reflecting Boundary Condition. <i>Journal of Earthquake Engineering</i> , 2016, 20, 428-446.	1.4	9
33	Damage Detection of Truss Employing Swarm-Based Optimization Techniques: A Comparison. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 21-37.	0.5	9
34	Damage assessment from curvature mode shape using unified particle swarm optimization. <i>Structural Engineering and Mechanics</i> , 2014, 52, 307-322.	1.0	7
35	Experimental evaluation of the behaviour of bamboo-reinforced beam-column joints. <i>Innovative Infrastructure Solutions</i> , 2019, 4, 1.	1.1	4
36	2D Finite element analysis of rectangular water tank with separator wall using direct coupling. <i>Coupled Systems Mechanics</i> , 2015, 4, 317-336.	0.4	4

#	ARTICLE	IF	CITATIONS
37	Seismic Performance Evaluation of Concrete Gravity Dams in Finite-Element Framework. Practice Periodical on Structural Design and Construction, 2022, 27, .	0.7	4
38	3-D sloshing of liquid filled laminated composite cylindrical tank under external excitation. Ocean Engineering, 2021, 239, 109788.	1.9	3
39	A New Hybrid Unified Particle Swarm Optimization Technique for Damage Assessment from Changes of Vibration Responses. Lecture Notes in Mechanical Engineering, 2020, , 277-295.	0.3	3
40	Investigation of a Diagonal Magnetorheological Damper for Vibration Reduction. Journal of Vibration Engineering and Technologies, 2022, 10, 1451-1471.	1.3	3
41	Performance of Koyna dam based on static and dynamic analysis. AIP Conference Proceedings, 2017, , .	0.3	2
42	Bond Behavior between Bamboo and Normal-Strength Concrete: Experimental and Numerical Investigation. Practice Periodical on Structural Design and Construction, 2022, 27, .	0.7	2
43	Performance Comparison among Vibration Based Indicators in Damage Identification of Structures. Applied Mechanics and Materials, 0, 592-594, 2081-2085.	0.2	1
44	Non-linear transient analysis of soil domain under variable soil properties with spring-dashpot type local absorbing boundaries. Geomechanics and Geoengineering, 2019, 14, 297-311.	0.9	0
45	Teaching a learning-based optimization algorithm for solving structural damage detection problem in frames via changes in vibration responses. Architecture, Structures and Construction, 0, , 1.	0.7	0