

# Damodar Maity

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

700  
citations

14  
h-index

25  
g-index

45  
ext. papers

846  
ext. citations

2.5  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
44	Experimental investigation on chemically treated bamboo reinforced concrete beams and columns. <i>Construction and Building Materials</i> , <b>2014</b> , 71, 610-617	6.7	83
43	Damage assessment of truss structures from changes in natural frequencies using ant colony optimization. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 218, 9759-9772	2.7	79
42	Damage assessment of structures using hybrid neuro-genetic algorithm. <i>Applied Soft Computing Journal</i> , <b>2007</b> , 7, 89-104	7.5	63
41	Damage assessment of structures from changes in natural frequencies using genetic algorithm. <i>Structural Engineering and Mechanics</i> , <b>2005</b> , 19, 21-42		47
40	Ant lion optimisation algorithm for structural damage detection using vibration data. <i>Journal of Civil Structural Health Monitoring</i> , <b>2019</b> , 9, 117-136	2.9	40
39	A parametric study on fluid-structure interaction problems. <i>Journal of Sound and Vibration</i> , <b>2003</b> , 263, 917-935	3.9	39
38	Damage assessment in structure from changes in static parameter using neural networks. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2004</b> , 29, 315-327	1	33
37	Modal parameter based inverse approach for structural joint damage assessment using unified particle swarm optimization. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 242, 407-422	2.7	23
36	Crack Assessment in Frame Structures Using Modal Data and Unified Particle Swarm Optimization Technique. <i>Advances in Structural Engineering</i> , <b>2014</b> , 17, 747-766	1.9	20
35	Vibration Based Structural Damage Detection Technique using Particle Swarm Optimization with Incremental Swarm Size. <i>International Journal of Aeronautical and Space Sciences</i> , <b>2012</b> , 13, 323-331	1.2	19
34	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> , <b>2020</b> , 34, 04019052	5	19
33	Influence of Sediment Layers on Dynamic Behavior of Aged Concrete Dams. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2007</b> , 133, 400-413	2.4	18
32	Teaching-Learning-based optimisation algorithm and its application in capturing critical slip surface in slope stability analysis. <i>Soft Computing</i> , <b>2020</b> , 24, 2969-2982	3.5	15
31	Multiverse Optimisation Algorithm for Capturing the Critical Slip Surface in Slope Stability Analysis. <i>Geotechnical and Geological Engineering</i> , <b>2020</b> , 38, 459-474	1.5	15
30	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> , <b>2020</b> , 10, 389-403	2.9	14
29	Structural health monitoring based on the hybrid ant colony algorithm by using Hooke-Jeeves pattern search. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	13
28	Structural Damage Detection Based on Modal Parameters Using Continuous Ant Colony Optimization. <i>Advances in Civil Engineering</i> , <b>2014</b> , 2014, 1-14	1.3	13

27	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> , <b>2019</b> , 1, 1	1.8	12
26	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> , <b>2021</b> , 37, 77-91	4.5	12
25	Free Vibration Analysis of Delaminated Composite Plate Using 3D Degenerated Element. <i>Journal of Aerospace Engineering</i> , <b>2019</b> , 32, 04019070	1.4	11
24	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> , <b>2019</b> , 1, 1	1.8	10
23	Characterization of liquid sloshing in U-shaped containers as dampers in high-rise buildings. <i>Ocean Engineering</i> , <b>2020</b> , 210, 107462	3.9	10
22	Transient Response of Concrete Gravity Dam Considering Dam-Reservoir-Foundation Interaction. <i>Journal of Earthquake Engineering</i> , <b>2018</b> , 22, 211-233	1.8	10
21	Nonlinear finite element analysis of elastic water storage tanks. <i>Engineering Structures</i> , <b>2015</b> , 99, 666-676	4.7	9
20	Damage Detection of Truss Employing Swarm-Based Optimization Techniques: A Comparison. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 21-37	0.4	9
19	Seismic Damage Analysis of Aged Concrete Gravity Dams. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , <b>2013</b> , 14, 424-439	0.7	8
18	Vibration-Based Delamination Detection in Composite Structures Employing Mixed Unified Particle Swarm Optimization. <i>AIAA Journal</i> , <b>2021</b> , 59, 386-399	2.1	8
17	Vibration-based damage detection of structures employing Bayesian data fusion coupled with TLBO optimization algorithm. <i>Structural and Multidisciplinary Optimization</i> , <b>2021</b> , 64, 2243	3.6	8
16	Cost optimization of rectangular RC footing using GA and UPSO. <i>Soft Computing</i> , <b>2020</b> , 24, 709-721	3.5	7
15	Pressure Based Eulerian Approach for Investigation of Sloshing in Rectangular Water Tank. <i>Procedia Engineering</i> , <b>2016</b> , 144, 1187-1194		6
14	Numerical investigation on seismic behaviour of aged concrete gravity dams to near source and far source ground motions. <i>Natural Hazards</i> , <b>2021</b> , 105, 943-966	3	6
13	Finite Element Analysis of Dam-Foundation Coupled System Considering Cone-Type Local Non-Reflecting Boundary Condition. <i>Journal of Earthquake Engineering</i> , <b>2016</b> , 20, 428-446	1.8	5
12	2D Finite element analysis of rectangular water tank with separator wall using direct coupling. <i>Coupled Systems Mechanics</i> , <b>2015</b> , 4, 317-336		3
11	Damage assessment from curvature mode shape using unified particle swarm optimization. <i>Structural Engineering and Mechanics</i> , <b>2014</b> , 52, 307-322		3
10	Performance of Koyna dam based on static and dynamic analysis <b>2017</b> ,		2

9	A New Hybrid Unified Particle Swarm Optimization Technique for Damage Assessment from Changes of Vibration Responses. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 277-295	0.4	2
8	Tensile characterisation of bamboo strips for potential use in reinforced concrete members: experimental and numerical study. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2020</b> , 53, 1	3.4	2
7	Experimental evaluation of the behaviour of bamboo-reinforced beam-column joints. <i>Innovative Infrastructure Solutions</i> , <b>2019</b> , 4, 1	2.3	1
6	Performance Comparison among Vibration Based Indicators in Damage Identification of Structures. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 592-594, 2081-2085	0.3	1
5	Seismic Performance Evaluation of Concrete Gravity Dams in Finite-Element Framework. <i>Practice Periodical on Structural Design and Construction</i> , <b>2022</b> , 27,	1.2	1
4	3-D sloshing of liquid filled laminated composite cylindrical tank under external excitation. <i>Ocean Engineering</i> , <b>2021</b> , 239, 109788	3.9	1
3	Investigation of a Diagonal Magnetorheological Damper for Vibration Reduction. <i>Journal of Vibration Engineering and Technologies</i> ,1	2	0
2	Non-linear transient analysis of soil domain under variable soil properties with spring-dashpot type local absorbing boundaries. <i>Geomechanics and Geoengineering</i> , <b>2019</b> , 14, 297-311	1.4	
1	Teaching Learning-based optimization algorithm for solving structural damage detection problem in frames via changes in vibration responses. <i>Architecture, Structures and Construction</i> ,1		