Bijan Samali

List of Publications by Year
in descending order

90 papers	3,970 citations	94433 37 h-index	133252 59 g-index
90 all docs	90 docs citations	90 times ranked	3012 citing authors

#	Article	IF	Citations
1	Crack detection of concrete structures using deep convolutional neural networks optimized by enhanced chicken swarm algorithm. Structural Health Monitoring, 2022, 21, 2244-2263.	7.5	78
2	Application of TLS Method in Digitization of Bridge Infrastructures: A Path to BrIM Development. Remote Sensing, 2022, 14, 1148.	4.0	12
3	State-of-the-art review on advancements of data mining in structural health monitoring. Measurement: Journal of the International Measurement Confederation, 2022, 193, 110939.	5.0	63
4	Influence of seismic orientation on the statistical distribution of nonlinear seismic response of the stiffness-eccentric structure. Structures, 2022, 39, 387-404.	3.6	19
5	Simultaneous Identification of Bridge Structural Damage and Moving Loads Using the Explicit Form of Newmark-β Method: Numerical and Experimental Studies. Remote Sensing, 2022, 14, 119.	4.0	5
6	Experimental and numerical investigation on the complex behaviour of the localised seismic response in a multi-storey plan-asymmetric structure. Structure and Infrastructure Engineering, 2021, 17, 86-102.	3.7	63
7	A comprehensive taxonomy for structure and material deficiencies, preventions and remedies of timber bridges. Journal of Building Engineering, 2021, 34, 101624.	3.4	11
8	Multi-Image-Feature-Based Hierarchical Concrete Crack Identification Framework Using Optimized SVM Multi-Classifiers and Dâ€"S Fusion Algorithm for Bridge Structures. Remote Sensing, 2021, 13, 240.	4.0	33
9	Numerical Analysis of Axial Cyclic Behavior of FRP Retrofitted CHS Joints. Materials, 2021, 14, 648.	2.9	3
10	Shake Table Testing of Standard Cold-Formed Steel Storage Rack. Applied Sciences (Switzerland), 2021, 11, 1821.	2.5	32
11	Buckling Behavior of Non-Retrofitted and FRP-Retrofitted Steel CHS T-Joints. Applied Sciences (Switzerland), 2021, 11, 3098.	2.5	0
12	Comprehensive Study of Moving Load Identification on Bridge Structures Using the Explicit Form of Newmark-β Method: Numerical and Experimental Studies. Remote Sensing, 2021, 13, 2291.	4.0	24
13	Quality Evaluation of Digital Twins Generated Based on UAV Photogrammetry and TLS: Bridge Case Study. Remote Sensing, 2021, 13, 3499.	4.0	66
14	Fresh, Mechanical, and Durability Properties of Self-Compacting Mortar Incorporating Alumina Nanoparticles and Rice Husk Ash. Materials, 2021, 14, 6778.	2.9	18
15	Numerical Evaluation of the Upright Columns with Partial Reinforcement along with the Utilisation of Neural Networks with Combining Feature-Selection Method to Predict the Load and Displacement. Applied Sciences (Switzerland), 2021, 11, 11056.	2.5	28
16	Suitability of roof harvested rainwater for potential potable water production: A scoping review. Journal of Cleaner Production, 2020, 248, 119226.	9.3	79
17	Reinforcement methods for compression perpendicular to grain in top/bottom plates of light timber frames. Construction and Building Materials, 2020, 231, 116377.	7.2	11
18	Experimental investigation on load bearing capacity of full scaled light timber framed wall for mid-rise buildings. Construction and Building Materials, 2020, 231, 117069.	7.2	8

#	ARTICLE	IF	CITATIONS
19	A Decade of Modern Bridge Monitoring Using Terrestrial Laser Scanning: Review and Future Directions. Remote Sensing, 2020, 12, 3796.	4.0	94
20	Improving performance of solar roof tiles by incorporating phase change material. Solar Energy, 2020, 207, 1308-1320.	6.1	37
21	Operational Modal Analysis, Testing and Modelling of Prefabricated Steel Modules with Different LSF Composite Walls. Materials, 2020, 13, 5816.	2.9	13
22	Experimental and Numerical Investigation of a Method for Strengthening Cold-Formed Steel Profiles in Bending. Applied Sciences (Switzerland), 2020, 10, 3855.	2.5	26
23	Feasibility analysis of a small-scale rainwater harvesting system for drinking water production at Werrington, New South Wales, Australia. Journal of Cleaner Production, 2020, 270, 122437.	9.3	51
24	The role of viscoelastic damping on retrofitting seismic performance of asymmetric reinforced concrete structures. Earthquake Engineering and Engineering Vibration, 2020, 19, 223-237.	2.3	58
25	Influence of seismic incident angle on response uncertainty and structural performance of tall asymmetric structure. Structural Design of Tall and Special Buildings, 2020, 29, e1750.	1.9	64
26	Is it time to embrace building integrated Photovoltaics? A review with particular focus on Australia. Solar Energy, 2019, 188, 1118-1133.	6.1	42
27	Algorithm Development for the Non-Destructive Testing of Structural Damage. Applied Sciences (Switzerland), 2019, 9, 2810.	2.5	17
28	Mix composition and characterisation of one-part geopolymers with different activators. Construction and Building Materials, 2019, 225, 526-537.	7.2	93
29	Seismic collapse assessment of a hybrid cold-formed hot-rolled steel building. Journal of Constructional Steel Research, 2019, 155, 504-516.	3.9	20
30	Fibre Bragg grating sensor-based damage response monitoring of an asymmetric reinforced concrete shear wall structure subjected to progressive seismic loads. Structural Control and Health Monitoring, 2019, 26, e2307.	4.0	90
31	Parametric Analysis on the Circular CFST Column and RBS Steel Beam Joints. Materials, 2019, 12, 1535.	2.9	9
32	Structural Performance of Polyurethane Foam-Filled Building Composite Panels: A State-Of-The-Art. Journal of Composites Science, 2019, 3, 40.	3.0	8
33	Investigation of a Method for Strengthening Perforated Cold-Formed Steel Profiles under Compression Loads. Applied Sciences (Switzerland), 2019, 9, 5085.	2.5	23
34	Experimental study of semi-active magnetorheological elastomer base isolation system using optimal neuro fuzzy logic control. Mechanical Systems and Signal Processing, 2019, 119, 380-398.	8.0	56
35	Identification of Factors and Decision Analysis of the Level of Modularization in Building Construction. Journal of Architectural Engineering, 2018, 24, 04018010.	1.6	62
36	Bridge Abutment Movement and Approach Settlement â€" A Case Study and Scenario Analysis. International Journal of Structural Stability and Dynamics, 2018, 18, 1840011.	2.4	12

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37	Interlocking system for enhancing the integrity of multi-storey modular buildings. Automation in Construction, 2018, 85, 263-272.	9.8	106
38	Decision Support Systems. , 2018, , .		9
39	An experimental study on the lateral pressure in foam-filled wall panels with pneumatic formwork. Case Studies in Construction Materials, 2018, 9, e00203.	1.7	1
40	Lateral behaviour of hybrid cold-formed and hot-rolled steel wall systems: Experimental investigation. Journal of Constructional Steel Research, 2018, 147, 422-432.	3.9	27
41	Effect of Seismic Soil–Pile–Structure Interaction on Mid- and High-Rise Steel Buildings Resting on a Group of Pile Foundations. International Journal of Geomechanics, 2018, 18, .	2.7	44
42	Lateral force resisting systems in lightweight steel frames: Recent research advances. Thin-Walled Structures, 2018, 130, 231-253.	5.3	66
43	Mechanical properties of ambient cured one-part hybrid OPC-geopolymer concrete. Construction and Building Materials, 2018, 186, 330-337.	7.2	78
44	Pull-out Strengths of GFRP-Concrete Bond Exposed to Applied Environmental Conditions. International Journal of Concrete Structures and Materials, 2017, 11, 69-84.	3.2	12
45	Cyclic behaviour of composite joints with reduced beam sections. Engineering Structures, 2017, 136, 329-344.	5.3	28
46	Structural condition assessment using entropy-based time series analysis. Journal of Intelligent Material Systems and Structures, 2017, 28, 1941-1956.	2.5	9
47	Automated spatial design of multi-story modular buildings using a unified matrix method. Automation in Construction, 2017, 82, 31-42.	9.8	68
48	Experimental Investigation of a Base Isolation System Incorporating MR Dampers with the High-Order Single Step Control Algorithm. Applied Sciences (Switzerland), 2017, 7, 344.	2.5	28
49	Inspection of Metal and Concrete Specimens Using Imaging System with Laser Displacement Sensor. Electronics (Switzerland), 2017, 6, 36.	3.1	15
50	Remedial Modelling of Steel Bridges through Application of Analytical Hierarchy Process (AHP). Applied Sciences (Switzerland), 2017, 7, 168.	2.5	40
51	Effects of applied environmental conditions on the pull-out strengths of CFRP-concrete bond. Construction and Building Materials, 2016, 114, 817-830.	7.2	41
52	A new model for bridge management: Part B: decision support system for remediation planning. Australian Journal of Civil Engineering, 2016, 14, 46-53.	1.6	37
53	Evaluation of climate change impacts on rainwater harvesting. Journal of Cleaner Production, 2016, 137, 60-69.	9.3	111
54	A compact self-adaptive recursive least square approach for real-time structural identification with unknown inputs. Advances in Structural Engineering, 2016, 19, 1118-1129.	2.4	7

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55	A new model for bridge management: Part A: condition assessment and priority ranking of bridges. Australian Journal of Civil Engineering, 2016, 14, 35-45.	1.6	39
56	Spectral-Based Damage Identification in Structures under Ambient Vibration. Journal of Computing in Civil Engineering, 2016, 30, .	4.7	19
57	Experimental forward and inverse modelling of magnetorheological dampers using an optimal Takagi–Sugeno–Kang fuzzy scheme. Journal of Intelligent Material Systems and Structures, 2016, 27, 904-914.	2.5	14
58	Evaluating contradictory relationship between floor rotation and torsional irregularity coefficient under varying orientations of ground motion. Earthquake and Structures, 2016, 11, 1027-1041.	1.0	9
59	Damage localization based on symbolic time series analysis. Structural Control and Health Monitoring, 2015, 22, 374-393.	4.0	21
60	Drying Shrinkage Behaviour of Fibre Reinforced Concrete Incorporating Polyvinyl Alcohol Fibres and Fly Ash. Advances in Civil Engineering, 2014, 2014, 1-10.	0.7	25
61	Numerical and Experimental Investigations on Seismic Response of Building Frames under Influence of Soil-Structure Interaction. Advances in Structural Engineering, 2014, 17, 109-130.	2.4	55
62	Assessment of soil–pile–structure interaction influencing seismic response of mid-rise buildings sitting on floating pile foundations. Computers and Geotechnics, 2014, 55, 172-186.	4.7	146
63	An empirical relationship to determine lateral seismic response of mid-rise building frames under influence of soil-structure interaction. Structural Design of Tall and Special Buildings, 2014, 23, 526-548.	1.9	33
64	A comparative study on the effect of different strategies for energy saving of air-cooled vapor compression air conditioning systems. Energy and Buildings, 2014, 74, 163-172.	6.7	26
65	A review of different strategies for HVAC energy saving. Energy Conversion and Management, 2014, 77, 738-754.	9.2	338
66	Thermo-economic optimization of rooftop unit's evaporator coil for energy efficiency and thermal comfort. Building Simulation, 2014, 7, 345-359.	5.6	6
67	Thermo-economic optimization of condenser coil configuration for HVAC performance enhancement. Energy and Buildings, 2014, 84, 1-12.	6.7	3
68	Constitutive Relationships for Steel Fibre Reinforced Concrete at Elevated Temperatures. Fire Technology, 2014, 50, 1249-1268.	3.0	63
69	FRF-based damage localization method with noise suppression approach. Journal of Sound and Vibration, 2014, 333, 3305-3320.	3.9	32
70	High Strength Polypropylene Fibre Reinforcement Concrete at High Temperature. Fire Technology, 2014, 50, 1229-1247.	3.0	60
71	Modelling and performance prediction of an integrated central cooling plant for HVAC energy efficiency improvement. Building Simulation, 2013, 6, 127-138.	5.6	10
72	Effect of polyvinyl alcohol (PVA) fibre on dynamic and material properties of fibre reinforced concrete. Construction and Building Materials, 2013, 49, 374-383.	7.2	170

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73	Identification of member connectivity and mass changes on a two-storey framed structure using frequency response functions and artificial neural networks. Journal of Sound and Vibration, 2013, 332, 3636-3653.	3.9	40
74	Lateral seismic response of building frames considering dynamic soil-structure interaction effects. Structural Engineering and Mechanics, 2013, 45, 311-321.	1.0	30
75	Predicting the bond between concrete and reinforcing steel at elevated temperatures. Structural Engineering and Mechanics, 2013, 48, 643-660.	1.0	41
76	Location and Severity Identification of Notch-Type Damage in a Two-Storey Steel Framed Structure Utilising Frequency Response Functions and Artificial Neural Network. Advances in Structural Engineering, 2012, 15, 743-757.	2.4	26
77	Damage identification in civil engineering structures utilizing PCA-compressed residual frequency response functions and neural network ensembles. Structural Control and Health Monitoring, 2011, 18, 207-226.	4.0	91
78	Dynamic-Based Damage Identification Using Neural Network Ensembles and Damage Index Method. Advances in Structural Engineering, 2010, 13, 1001-1016.	2.4	51
79	Experimental verification of an active mass driver system on a five-storey model using a fuzzy controller. Structural Control and Health Monitoring, 2006, 13, 917-943.	4.0	21
80	Active Control of Cross Wind Response of 76-Story Tall Building Using a Fuzzy Controller. Journal of Engineering Mechanics - ASCE, 2004, 130, 492-498.	2.9	45
81	Fuzzy Controller for Seismically Excited Nonlinear Buildings. Journal of Engineering Mechanics - ASCE, 2004, 130, 407-415.	2.9	44
82	Benchmark Problem for Response Control of Wind-Excited Tall Buildings. Journal of Engineering Mechanics - ASCE, 2004, 130, 437-446.	2.9	205
83	Earthquake Response of a Building Model with Base-Isolated Active Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 641-646.	0.4	0
84	Shake table tests on a mass eccentric model with base isolation. Earthquake Engineering and Structural Dynamics, 2003, 32, 1353-1372.	4.4	20
85	Performance of a five-storey benchmark model using an active tuned mass damper and a fuzzy controller. Engineering Structures, 2003, 25, 1597-1610.	5.3	57
86	Behaviour of concrete beamâ€"column connections reinforced with hybrid FRP sheet. Composite Structures, 2002, 57, 357-365.	5.8	43
87	Shake table testing of a base isolated model. Engineering Structures, 2002, 24, 1203-1215.	5.3	42
88	Active control of along wind response of tall building using a fuzzy controller. Engineering Structures, 2001, 23, 1512-1522.	5.3	71
89	Reinforcement of concrete beamâ€"column connections with hybrid FRP sheet. Composite Structures, 1999, 47, 805-812.	5.8	19
90	A Vibration-Based Approach for the Estimation of the Loss of Composite Action in Timber Composite Systems. Advanced Materials Research, 0, 778, 462-469.	0.3	0