

# Bijan Samali

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A review of different strategies for HVAC energy saving. <i>Energy Conversion and Management</i> , 2014, 77, 738-754.	9.2	338
2	Benchmark Problem for Response Control of Wind-Excited Tall Buildings. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 437-446.	2.9	205
3	Effect of polyvinyl alcohol (PVA) fibre on dynamic and material properties of fibre reinforced concrete. <i>Construction and Building Materials</i> , 2013, 49, 374-383.	7.2	170
4	Assessment of soil-pile-structure interaction influencing seismic response of mid-rise buildings sitting on floating pile foundations. <i>Computers and Geotechnics</i> , 2014, 55, 172-186.	4.7	146
5	Evaluation of climate change impacts on rainwater harvesting. <i>Journal of Cleaner Production</i> , 2016, 137, 60-69.	9.3	111
6	Interlocking system for enhancing the integrity of multi-storey modular buildings. <i>Automation in Construction</i> , 2018, 85, 263-272.	9.8	106
7	A Decade of Modern Bridge Monitoring Using Terrestrial Laser Scanning: Review and Future Directions. <i>Remote Sensing</i> , 2020, 12, 3796.	4.0	94
8	Mix composition and characterisation of one-part geopolymers with different activators. <i>Construction and Building Materials</i> , 2019, 225, 526-537.	7.2	93
9	Damage identification in civil engineering structures utilizing PCA-compressed residual frequency response functions and neural network ensembles. <i>Structural Control and Health Monitoring</i> , 2011, 18, 207-226.	4.0	91
10	Fibre Bragg grating sensor-based damage response monitoring of an asymmetric reinforced concrete shear wall structure subjected to progressive seismic loads. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2307.	4.0	90
11	Suitability of roof harvested rainwater for potential potable water production: A scoping review. <i>Journal of Cleaner Production</i> , 2020, 248, 119226.	9.3	79
12	Mechanical properties of ambient cured one-part hybrid OPC-geopolymer concrete. <i>Construction and Building Materials</i> , 2018, 186, 330-337.	7.2	78
13	Crack detection of concrete structures using deep convolutional neural networks optimized by enhanced chicken swarm algorithm. <i>Structural Health Monitoring</i> , 2022, 21, 2244-2263.	7.5	78
14	Active control of along wind response of tall building using a fuzzy controller. <i>Engineering Structures</i> , 2001, 23, 1512-1522.	5.3	71
15	Automated spatial design of multi-story modular buildings using a unified matrix method. <i>Automation in Construction</i> , 2017, 82, 31-42.	9.8	68
16	Lateral force resisting systems in lightweight steel frames: Recent research advances. <i>Thin-Walled Structures</i> , 2018, 130, 231-253.	5.3	66
17	Quality Evaluation of Digital Twins Generated Based on UAV Photogrammetry and TLS: Bridge Case Study. <i>Remote Sensing</i> , 2021, 13, 3499.	4.0	66
18	Influence of seismic incident angle on response uncertainty and structural performance of tall asymmetric structure. <i>Structural Design of Tall and Special Buildings</i> , 2020, 29, e1750.	1.9	64

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19	Constitutive Relationships for Steel Fibre Reinforced Concrete at Elevated Temperatures. <i>Fire Technology</i> , 2014, 50, 1249-1268.	3.0	63
20	Experimental and numerical investigation on the complex behaviour of the localised seismic response in a multi-storey plan-asymmetric structure. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 86-102.	3.7	63
21	State-of-the-art review on advancements of data mining in structural health monitoring. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 193, 110939.	5.0	63
22	Identification of Factors and Decision Analysis of the Level of Modularization in Building Construction. <i>Journal of Architectural Engineering</i> , 2018, 24, 04018010.	1.6	62
23	High Strength Polypropylene Fibre Reinforcement Concrete at High Temperature. <i>Fire Technology</i> , 2014, 50, 1229-1247.	3.0	60
24	The role of viscoelastic damping on retrofitting seismic performance of asymmetric reinforced concrete structures. <i>Earthquake Engineering and Engineering Vibration</i> , 2020, 19, 223-237.	2.3	58
25	Performance of a five-storey benchmark model using an active tuned mass damper and a fuzzy controller. <i>Engineering Structures</i> , 2003, 25, 1597-1610.	5.3	57
26	Experimental study of semi-active magnetorheological elastomer base isolation system using optimal neuro fuzzy logic control. <i>Mechanical Systems and Signal Processing</i> , 2019, 119, 380-398.	8.0	56
27	Numerical and Experimental Investigations on Seismic Response of Building Frames under Influence of Soil-Structure Interaction. <i>Advances in Structural Engineering</i> , 2014, 17, 109-130.	2.4	55
28	Dynamic-Based Damage Identification Using Neural Network Ensembles and Damage Index Method. <i>Advances in Structural Engineering</i> , 2010, 13, 1001-1016.	2.4	51
29	Feasibility analysis of a small-scale rainwater harvesting system for drinking water production at Werrington, New South Wales, Australia. <i>Journal of Cleaner Production</i> , 2020, 270, 122437.	9.3	51
30	Active Control of Cross Wind Response of 76-Story Tall Building Using a Fuzzy Controller. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 492-498.	2.9	45
31	Fuzzy Controller for Seismically Excited Nonlinear Buildings. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 407-415.	2.9	44
32	Effect of Seismic Soil-Structure Interaction on Mid- and High-Rise Steel Buildings Resting on a Group of Pile Foundations. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	44
33	Behaviour of concrete beam-column connections reinforced with hybrid FRP sheet. <i>Composite Structures</i> , 2002, 57, 357-365.	5.8	43
34	Shake table testing of a base isolated model. <i>Engineering Structures</i> , 2002, 24, 1203-1215.	5.3	42
35	Is it time to embrace building integrated Photovoltaics? A review with particular focus on Australia. <i>Solar Energy</i> , 2019, 188, 1118-1133.	6.1	42
36	Effects of applied environmental conditions on the pull-out strengths of CFRP-concrete bond. <i>Construction and Building Materials</i> , 2016, 114, 817-830.	7.2	41

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37	Predicting the bond between concrete and reinforcing steel at elevated temperatures. <i>Structural Engineering and Mechanics</i> , 2013, 48, 643-660.	1.0	41
38	Identification of member connectivity and mass changes on a two-storey framed structure using frequency response functions and artificial neural networks. <i>Journal of Sound and Vibration</i> , 2013, 332, 3636-3653.	3.9	40
39	Remedial Modelling of Steel Bridges through Application of Analytical Hierarchy Process (AHP). <i>Applied Sciences (Switzerland)</i> , 2017, 7, 168.	2.5	40
40	A new model for bridge management: Part A: condition assessment and priority ranking of bridges. <i>Australian Journal of Civil Engineering</i> , 2016, 14, 35-45.	1.6	39
41	A new model for bridge management: Part B: decision support system for remediation planning. <i>Australian Journal of Civil Engineering</i> , 2016, 14, 46-53.	1.6	37
42	Improving performance of solar roof tiles by incorporating phase change material. <i>Solar Energy</i> , 2020, 207, 1308-1320.	6.1	37
43	An empirical relationship to determine lateral seismic response of mid-rise building frames under influence of soil-structure interaction. <i>Structural Design of Tall and Special Buildings</i> , 2014, 23, 526-548.	1.9	33
44	Multi-Image-Feature-Based Hierarchical Concrete Crack Identification Framework Using Optimized SVM Multi-Classifiers and Dê€S Fusion Algorithm for Bridge Structures. <i>Remote Sensing</i> , 2021, 13, 240.	4.0	33
45	FRF-based damage localization method with noise suppression approach. <i>Journal of Sound and Vibration</i> , 2014, 333, 3305-3320.	3.9	32
46	Shake Table Testing of Standard Cold-Formed Steel Storage Rack. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1821.	2.5	32
47	Lateral seismic response of building frames considering dynamic soil-structure interaction effects. <i>Structural Engineering and Mechanics</i> , 2013, 45, 311-321.	1.0	30
48	Cyclic behaviour of composite joints with reduced beam sections. <i>Engineering Structures</i> , 2017, 136, 329-344.	5.3	28
49	Experimental Investigation of a Base Isolation System Incorporating MR Dampers with the High-Order Single Step Control Algorithm. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 344.	2.5	28
50	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. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11056.	2.5	28
51	Lateral behaviour of hybrid cold-formed and hot-rolled steel wall systems: Experimental investigation. <i>Journal of Constructional Steel Research</i> , 2018, 147, 422-432.	3.9	27
52	Location and Severity Identification of Notch-Type Damage in a Two-Storey Steel Framed Structure Utilising Frequency Response Functions and Artificial Neural Network. <i>Advances in Structural Engineering</i> , 2012, 15, 743-757.	2.4	26
53	A comparative study on the effect of different strategies for energy saving of air-cooled vapor compression air conditioning systems. <i>Energy and Buildings</i> , 2014, 74, 163-172.	6.7	26
54	Experimental and Numerical Investigation of a Method for Strengthening Cold-Formed Steel Profiles in Bending. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3855.	2.5	26

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55	Drying Shrinkage Behaviour of Fibre Reinforced Concrete Incorporating Polyvinyl Alcohol Fibres and Fly Ash. <i>Advances in Civil Engineering</i> , 2014, 2014, 1-10.	0.7	25
56	Comprehensive Study of Moving Load Identification on Bridge Structures Using the Explicit Form of Newmark- $\dot{I}^2$ Method: Numerical and Experimental Studies. <i>Remote Sensing</i> , 2021, 13, 2291.	4.0	24
57	Investigation of a Method for Strengthening Perforated Cold-Formed Steel Profiles under Compression Loads. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5085.	2.5	23
58	Experimental verification of an active mass driver system on a five-storey model using a fuzzy controller. <i>Structural Control and Health Monitoring</i> , 2006, 13, 917-943.	4.0	21
59	Damage localization based on symbolic time series analysis. <i>Structural Control and Health Monitoring</i> , 2015, 22, 374-393.	4.0	21
60	Shake table tests on a mass eccentric model with base isolation. <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 1353-1372.	4.4	20
61	Seismic collapse assessment of a hybrid cold-formed hot-rolled steel building. <i>Journal of Constructional Steel Research</i> , 2019, 155, 504-516.	3.9	20
62	Reinforcement of concrete beam-column connections with hybrid FRP sheet. <i>Composite Structures</i> , 1999, 47, 805-812.	5.8	19
63	Spectral-Based Damage Identification in Structures under Ambient Vibration. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	4.7	19
64	Influence of seismic orientation on the statistical distribution of nonlinear seismic response of the stiffness-eccentric structure. <i>Structures</i> , 2022, 39, 387-404.	3.6	19
65	Fresh, Mechanical, and Durability Properties of Self-Compacting Mortar Incorporating Alumina Nanoparticles and Rice Husk Ash. <i>Materials</i> , 2021, 14, 6778.	2.9	18
66	Algorithm Development for the Non-Destructive Testing of Structural Damage. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2810.	2.5	17
67	Inspection of Metal and Concrete Specimens Using Imaging System with Laser Displacement Sensor. <i>Electronics (Switzerland)</i> , 2017, 6, 36.	3.1	15
68	Experimental forward and inverse modelling of magnetorheological dampers using an optimal Takagi-Sugeno-Kang fuzzy scheme. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 904-914.	2.5	14
69	Operational Modal Analysis, Testing and Modelling of Prefabricated Steel Modules with Different LSF Composite Walls. <i>Materials</i> , 2020, 13, 5816.	2.9	13
70	Pull-out Strengths of GFRP-Concrete Bond Exposed to Applied Environmental Conditions. <i>International Journal of Concrete Structures and Materials</i> , 2017, 11, 69-84.	3.2	12
71	Bridge Abutment Movement and Approach Settlement – A Case Study and Scenario Analysis. <i>International Journal of Structural Stability and Dynamics</i> , 2018, 18, 1840011.	2.4	12
72	Application of TLS Method in Digitization of Bridge Infrastructures: A Path to BrIM Development. <i>Remote Sensing</i> , 2022, 14, 1148.	4.0	12

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73	Reinforcement methods for compression perpendicular to grain in top/bottom plates of light timber frames. <i>Construction and Building Materials</i> , 2020, 231, 116377.	7.2	11
74	A comprehensive taxonomy for structure and material deficiencies, preventions and remedies of timber bridges. <i>Journal of Building Engineering</i> , 2021, 34, 101624.	3.4	11
75	Modelling and performance prediction of an integrated central cooling plant for HVAC energy efficiency improvement. <i>Building Simulation</i> , 2013, 6, 127-138.	5.6	10
76	Structural condition assessment using entropy-based time series analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1941-1956.	2.5	9
77	Decision Support Systems. , 2018, , .		9
78	Parametric Analysis on the Circular CFST Column and RBS Steel Beam Joints. <i>Materials</i> , 2019, 12, 1535.	2.9	9
79	Evaluating contradictory relationship between floor rotation and torsional irregularity coefficient under varying orientations of ground motion. <i>Earthquake and Structures</i> , 2016, 11, 1027-1041.	1.0	9
80	Structural Performance of Polyurethane Foam-Filled Building Composite Panels: A State-Of-The-Art. <i>Journal of Composites Science</i> , 2019, 3, 40.	3.0	8
81	Experimental investigation on load bearing capacity of full scaled light timber framed wall for mid-rise buildings. <i>Construction and Building Materials</i> , 2020, 231, 117069.	7.2	8
82	A compact self-adaptive recursive least square approach for real-time structural identification with unknown inputs. <i>Advances in Structural Engineering</i> , 2016, 19, 1118-1129.	2.4	7
83	Thermo-economic optimization of rooftop unit's evaporator coil for energy efficiency and thermal comfort. <i>Building Simulation</i> , 2014, 7, 345-359.	5.6	6
84	Simultaneous Identification of Bridge Structural Damage and Moving Loads Using the Explicit Form of Newmark- $\hat{\rho}^2$ Method: Numerical and Experimental Studies. <i>Remote Sensing</i> , 2022, 14, 119.	4.0	5
85	Thermo-economic optimization of condenser coil configuration for HVAC performance enhancement. <i>Energy and Buildings</i> , 2014, 84, 1-12.	6.7	3
86	Numerical Analysis of Axial Cyclic Behavior of FRP Retrofitted CHS Joints. <i>Materials</i> , 2021, 14, 648.	2.9	3
87	An experimental study on the lateral pressure in foam-filled wall panels with pneumatic formwork. <i>Case Studies in Construction Materials</i> , 2018, 9, e00203.	1.7	1
88	Earthquake Response of a Building Model with Base-Isolated Active Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 641-646.	0.4	0
89	A Vibration-Based Approach for the Estimation of the Loss of Composite Action in Timber Composite Systems. <i>Advanced Materials Research</i> , 0, 778, 462-469.	0.3	0
90	Buckling Behavior of Non-Retrofitted and FRP-Retrofitted Steel CHS T-Joints. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3098.	2.5	0