Bin Wu

List of Publications by Year
in descending order

53 papers	1,208 citations	361296 20 h-index	395590 33 g-index
53 all docs	53 docs citations	53 times ranked	533 citing authors

#	Article	IF	Citations
1	Adaptive Feedforward and Feedback Compensation Method for Real-time Hybrid Simulation Based on a Discrete Physical Testing System Model. Journal of Earthquake Engineering, 2022, 26, 3841-3863.	1.4	11
2	Dynamic Force Loading Strategy for Effective Force Testing Considering Natural Velocity Feedback Compensation and Nonlinearity. International Journal of Structural Stability and Dynamics, 2021, 21, 2150007.	1.5	1
3	Substructure Modeling and Loading-Control Techniques for the Test of a Full-Scale Spatial RC Frame with Buckling-Restrained Braces Subjected to Bidirectional Loading. Journal of Structural Engineering, 2021, 147, .	1.7	7
4	Experimental verification of an accessible geographically distributed realâ€time hybrid simulation platform. Structural Control and Health Monitoring, 2020, 27, e2483.	1.9	7
5	Test Verification of Two-Stage Adaptive Delay Compensation Method for Real-Time Hybrid Simulation. Shock and Vibration, 2020, 2020, 1-14.	0.3	1
6	Kalman Filter-Based Adaptive Delay Compensation for Benchmark Problem in Real-Time Hybrid Simulation. Applied Sciences (Switzerland), 2020, 10, 7101.	1.3	7
7	Shaking Table Substructure Testing Based on Three-Variable Control Method with Velocity Positive Feedback. Applied Sciences (Switzerland), 2020, 10, 5414.	1.3	10
8	A vision-based active learning convolutional neural network model for concrete surface crack detection. Advances in Structural Engineering, 2020, 23, 2952-2964.	1.2	18
9	A shaking table substructure testing method for the structural seismic evaluation considering soil-structure interactions. Advances in Structural Engineering, 2020, 23, 3024-3036.	1.2	1
10	Seismic behaviour and failure-mode-prediction method of a reinforced-concrete rigid-frame bridge with thin-walled tall piers: Investigation by model-updating hybrid test. Engineering Structures, 2020, 208, 110302.	2.6	14
11	Energyâ€consistent integration method and its application to hybrid testing. Earthquake Engineering and Structural Dynamics, 2020, 49, 415-433.	2.5	8
12	Robust actuator dynamics compensation method for real-time hybrid simulation. Mechanical Systems and Signal Processing, 2019, 131, 49-70.	4.4	27
13	High performance compensation using an adaptive strategy for real-time hybrid simulation. Mechanical Systems and Signal Processing, 2019, 133, 106262.	4.4	32
14	Hybrid simulation with online model updating: Application to a reinforced concrete bridge endowed with tall piers. Mechanical Systems and Signal Processing, 2019, 123, 533-553.	4.4	17
15	Hybrid simulation of structural systems with online updating of concrete constitutive law parameters by unscented Kalman filter. Structural Control and Health Monitoring, 2018, 25, e2069.	1.9	8
16	An improved equivalent force control algorithm for hybrid seismic testing of nonlinear systems. Structural Control and Health Monitoring, 2018, 25, e2076.	1.9	6
17	Online numerical simulation: A hybrid simulation method for incomplete boundary conditions. Earthquake Engineering and Structural Dynamics, 2018, 47, 889-905.	2.5	23
18	Buckling mechanism of steel core and global stability design method for fixed-end buckling-restrained braces. Engineering Structures, 2018, 174, 447-461.	2.6	14

#	Article	IF	Citations
19	HyTest: Platform for Structural Hybrid Simulations with Finite Element Model Updating. Advances in Engineering Software, 2017, 112, 200-210.	1.8	30
20	Pseudodynamic tests with substructuring of a fullâ€scale precast boxâ€modularized structure made of reinforced concrete shear walls. Structural Design of Tall and Special Buildings, 2017, 26, e1354.	0.9	23
21	Buckling mechanism and global stability design method of buckling-restrained braces. Journal of Constructional Steel Research, 2017, 138, 473-487.	1.7	13
22	Experimental performance of buckling-restrained braces with steel cores of H-section and half-wavelength evaluation of higher-order local buckling. Advances in Structural Engineering, 2017, 20, 641-657.	1.2	12
23	Application of the Energy-Conserving Integration Method to Hybrid Simulation of a Full-Scale Steel Frame. Algorithms, 2016, 9, 35.	1.2	1
24	Hybrid simulation of steel frame structures with sectional model updating. Earthquake Engineering and Structural Dynamics, 2016, 45, 1251-1269.	2.5	32
25	Real-time hybrid testing with equivalent force control method incorporating Kalman filter. Structural Control and Health Monitoring, 2016, 23, 735-748.	1.9	12
26	Robust integrated actuator control: experimental verification and realâ€time hybridâ€simulation implementation. Earthquake Engineering and Structural Dynamics, 2015, 44, 441-460.	2.5	69
27	Buckling mechanism of steel core of buckling-restrained braces. Journal of Constructional Steel Research, 2015, 107, 61-69.	1.7	34
28	Experimental and Analytical Studies on a Reinforced Concrete Frame Retrofitted with Buckling-Restrained Brace and Steel Caging. Advances in Structural Engineering, 2015, 18, 155-171.	1.2	10
29	Equivalent force control method for substructure pseudoâ€dynamic test of a fullâ€scale masonry structure. Earthquake Engineering and Structural Dynamics, 2014, 43, 969-983.	2.5	9
30	Local buckling behavior of steel angle core members in buckling-restrained braces: Cyclic tests, theoretical analysis, and design recommendations. Engineering Structures, 2014, 66, 129-145.	2.6	42
31	Sliding mode for equivalent force control in real-time substructure testing. Structural Control and Health Monitoring, 2014, 21, 1284-1303.	1.9	26
32	A practical and unified global stability design method of buckling-restrained braces: Discussion on pinned connections. Journal of Constructional Steel Research, 2014, 95, 106-115.	1.7	20
33	Model updating with constrained unscented Kalman filter for hybrid testing. Smart Structures and Systems, 2014, 14, 1105-1129.	1.9	30
34	An effective online delay estimation method based on a simplified physical system model for real-time hybrid simulation. Smart Structures and Systems, 2014, 14, 1247-1267.	1.9	17
35	Seismic performance of structures incorporating magnetorheological dampers with pseudo-NEGATIVE STIFFNESS. Structural Control and Health Monitoring, 2013, 20, 405-421.	1.9	31
36	Actuator dynamics compensation based on upper bound delay for realâ€time hybrid simulation. Earthquake Engineering and Structural Dynamics, 2013, 42, 1749-1765.	2.5	49

#	Article	IF	Citations
37	Global stability design method of buckling-restrained braces considering end bending moment transfer: Discussion on pinned connections with collars. Engineering Structures, 2013, 49, 947-962.	2.6	30
38	Self-Centering Buckling-Restrained Braces. Advanced Materials Research, 2013, 639-640, 846-849.	0.3	3
39	Flexural Demand on Pin-Connected Buckling-Restrained Braces and Design Recommendations. Journal of Structural Engineering, 2012, 138, 1398-1415.	1.7	42
40	Performance and Application of Equivalent Force Control Method for Real-Time Substructure Testing. Journal of Engineering Mechanics - ASCE, 2012, 138, 1303-1316.	1.6	11
41	Effect of brace end rotation on the global buckling behavior of pin-connected buckling-restrained braces with end collars. Engineering Structures, 2012, 40, 240-253.	2.6	39
42	Equivalent Force Control Method for Real-time Testing of Nonlinear Structures. Journal of Earthquake Engineering, 2011, 15, 143-164.	1.4	16
43	Performance of an offshore platform with MR dampers subjected to ice and earthquake. Structural Control and Health Monitoring, 2011, 18, 682-697.	1.9	37
44	A novel type of angle steel bucklingâ€restrained brace: Cyclic behavior and failure mechanism. Earthquake Engineering and Structural Dynamics, 2011, 40, 1083-1102.	2.5	150
45	Adaptive substructure testing method based on least square. , 2011, , .		0
46	Research on smart control tests of ice-induced vibration control of offshore platform. , 2010, , .		0
47	Stability of central difference method for dynamic realâ€time substructure testing. Earthquake Engineering and Structural Dynamics, 2009, 38, 1649-1663.	2.5	32
48	Equivalent force control method for generalized real-time substructure testing with implicit integration. Earthquake Engineering and Structural Dynamics, 2007, 36, 1127-1149.	2.5	71
49	Stability of average acceleration method for structures with nonlinear damping. Earthquake Engineering and Engineering Vibration, 2006, 5, 87-92.	1.1	5
50	Operator-splitting method for real-time substructure testing. Earthquake Engineering and Structural Dynamics, 2006, 35, 293-314.	2.5	91
51	The pseudo-viscous frictional energy dissipator: a new device for mitigating seismic effects. Earthquake Engineering and Structural Dynamics, 2003, 32, 31-48.	2.5	5
52	Online Identification with Least Square Method for Pseudo-Dynamic Tests. Advanced Materials Research, 0, 250-253, 2455-2459.	0.3	4
53	Mixed Force and Displacement Control Strategy in Pseudo-Dynamic Tests for Structures with Large Stiffness. Advanced Materials Research, 0, 639-640, 1133-1136.	0.3	0