Zhongdong Duan

List of Publications by Year
in descending order

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43 papers	559 citations	840585 11 h-index	642610 23 g-index
43 all docs	43 docs citations	43 times ranked	520 citing authors

#	Article	IF	Citations
1	Estimation of Road Roughness Based on Tire Pressure Monitoring. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	5
2	An Algebraic Elimination by Substitution Algorithm for Vehicleâ€“Bridge Interaction Problems. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	2
3	A height-resolving tropical cyclone boundary layer model with vertical advection process. Natural Hazards, 2021, 107, 723-749.	1.6	8
4	Pixel-Level Recognition of Pavement Distresses Based on U-Net. Advances in Materials Science and Engineering, 2021, 2021, 1-11.	1.0	6
5	Road Roughness Estimation Based on the Vehicle Frequency Response Function. Actuators, 2021, 10, 89.	1.2	15
6	Near-Fault Forward Directivity Effect on the Estimation of Ground Motion Amplification Factors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	4
7	Impact of ENSO on typhoon wind hazard in the coast of southeast China. Natural Hazards, 2018, 92, 1717-1731.	1.6	6
8	Suction-based active aerodynamic control of wind loads on super high-rise buildings. Advances in Structural Engineering, 2016, 19, 1092-1102.	1.2	3
9	Damping Performances of Carbon Nanotube Reinforced Cement Composite. Mechanics of Advanced Materials and Structures, 2015, 22, 224-232.	1.5	38
10	Convex Set and Probabilistic Model-Based Hybrid Earthquake Loss Assessment Method. Advances in Structural Engineering, 2015, 18, 513-524.	1.2	0
11	Simultaneous Identification of Moving Vehicles and Bridge Damages Considering Road Rough Surface. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	4
12	Damage identification using substructural virtual distortion method. , 2012, , .		0
13	Fuzzy finite element model updating of bridges by considering the uncertainty of the measured modal parameters. Science China Technological Sciences, 2012, 55, 3109-3117.	2.0	24
14	Convex model for gross domestic product-based dynamic earthquake loss assessment method. Natural Hazards, 2012, 60, 589-604.	1.6	0
15	A probabilistic damage identification approach for structures with uncertainties under unknown input. Mechanical Systems and Signal Processing, 2011, 25, 1126-1145.	4.4	40
16	Convex set theory-based seismic hazard analysis of low seismicity area. Soil Dynamics and Earthquake Engineering, 2011, 31, 463-469.	1.9	5
17	Convex Model for Earthquake Damage and Loss Estimation of Individual Buildings. Advances in Structural Engineering, 2010, 13, 537-549.	1.2	1
18	Numerical Simulation of Vortex-Induced Vibrations on a Flexible Riser in Uniform Currents. , 2010, , .		1

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19	Identification of coexistent load and damage. Structural and Multidisciplinary Optimization, 2010, 41, 243-253.	1.7	24
20	Simultaneous identification of moving masses and structural damage. Structural and Multidisciplinary Optimization, 2010, 42, 907-922.	1.7	40
21	Structural damage detection using residual forces based on wavelet transform. Mechanical Systems and Signal Processing, 2010, 24, 224-239.	4.4	36
22	Damage detection for beam structures using an angle-between-string-and-horizon flexibility matrix. Structural Engineering and Mechanics, 2010, 36, 643-667.	1.0	7
23	Dynamic Parameters Identification and Finite Element Model Updating for Continuous Rigid Frame Bridge. Journal of Highway and Transportation Research and Development (English Edition), 2009, 4, 53-59.	0.2	0
24	Simulation of downburst in a multiple fan wind tunnel and research on its load on high-rise structure by wind tunnel experiment. , 2009, , .		6
25	The Hierarchical Decentralized Fault Tolerate Control for Building Structure Experiment Research. , 2009, , .		0
26	Condition assessment of structures under unknown support excitation. Earthquake Engineering and Engineering Vibration, 2009, 8, 103-114.	1.1	14
27	The influence of surfactants on the processing of multiâ€walled carbon nanotubes in reinforced cement matrix composites. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2783-2790.	0.8	124
28	A Time-History Analysis Algorithm of a Non-viscously Damped System Using Gauss Precise Integration. Lecture Notes in Computer Science, 2009, , 221-230.	1.0	3
29	Damage detection for truss or frame structures using an axial strain flexibility. Smart Structures and Systems, 2009, 5, 291-316.	1.9	5
30	Numerical simulation of dynamic response and collapse for steel frame structures subjected to blast load. Transactions of Tianjin University, 2008, 14, 523-529.	3.3	9
31	Local strain monitoring study of offshore platform T shaped tubular joint using fiber Bragg grating sensors. , 2008, , .		2
32	Structural Seismic Performance Evaluation in Consideration of Earthquake Ground Motion Uncertainties Using Convex Set Model. Advances in Structural Engineering, 2008, 11, 269-279.	1.2	4
33	Ultrasonic phased array inspection imaging technology for NDT of offshore platform structures. Proceedings of SPIE, 2008, , .	0.8	0
34	<title>The application of ultrasonic phased array system to the inspection of fillet weld of flat plate</title>. , 2007, , .		0
35	Effect of multi-walled carbon nanotubes on the vibration-reduction behavior of cement. , 2007, , .		8
36	Damage detection in ambient vibration using proportional flexibility matrix with incomplete measured DOFs. Structural Control and Health Monitoring, 2007, 14, 186-196.	1.9	49

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37	Study of hierarchical decentralized vibration control of structures. , 2006, 6174, 199.		3
38	Updating finite element model of structures with semi-rigid joints and boundary. , 2006, 6174, 1156.		2
39	Finite element model updating of structures using a hybrid optimization technique. , 2005, , .		6
40	Structural damage detection by wavelet transform and probabilistic neural network. , 2005, , .		1
41	Damage localization in ambient vibration by constructing proportional flexibility matrix. Journal of Sound and Vibration, 2005, 284, 455-466.	2.1	47
42	Smart Sensors and Integrated Shm System for Offshore Structures. , 2005, , 269-278.		2
43	New kind of structural fatigue life prediction smart sensor. , 2004, , .		5