Zhongdong Duan

List of Publications by Year
in descending order

43 papers	559 citations	840119 11 h-index	642321 23 g-index
43 all docs	43 docs citations	43 times ranked	520 citing authors

#	Article	IF	Citations
1	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
2	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
3	Damage localization in ambient vibration by constructing proportional flexibility matrix. Journal of Sound and Vibration, 2005, 284, 455-466.	2.1	47
4	Simultaneous identification of moving masses and structural damage. Structural and Multidisciplinary Optimization, 2010, 42, 907-922.	1.7	40
5	A probabilistic damage identification approach for structures with uncertainties under unknown input. Mechanical Systems and Signal Processing, 2011, 25, 1126-1145.	4.4	40
6	Damping Performances of Carbon Nanotube Reinforced Cement Composite. Mechanics of Advanced Materials and Structures, 2015, 22, 224-232.	1.5	38
7	Structural damage detection using residual forces based on wavelet transform. Mechanical Systems and Signal Processing, 2010, 24, 224-239.	4.4	36
8	Identification of coexistent load and damage. Structural and Multidisciplinary Optimization, 2010, 41, 243-253.	1.7	24
9	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
10	Road Roughness Estimation Based on the Vehicle Frequency Response Function. Actuators, 2021, 10, 89.	1.2	15
11	Condition assessment of structures under unknown support excitation. Earthquake Engineering and Engineering Vibration, 2009, 8, 103-114.	1.1	14
12	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
13	Effect of multi-walled carbon nanotubes on the vibration-reduction behavior of cement. , 2007, , .		8
14	A height-resolving tropical cyclone boundary layer model with vertical advection process. Natural Hazards, 2021, 107, 723-749.	1.6	8
15	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
16	Finite element model updating of structures using a hybrid optimization technique. , 2005, , .		6
17	Simulation of downburst in a multiple fan wind tunnel and research on its load on high-rise structure by wind tunnel experiment. , 2009, , .		6
18	Impact of ENSO on typhoon wind hazard in the coast of southeast China. Natural Hazards, 2018, 92, 1717-1731.	1.6	6

#	Article	IF	Citations
19	Pixel-Level Recognition of Pavement Distresses Based on U-Net. Advances in Materials Science and Engineering, 2021, 2021, 1-11.	1.0	6
20	New kind of structural fatigue life prediction smart sensor. , 2004, , .		5
21	Convex set theory-based seismic hazard analysis of low seismicity area. Soil Dynamics and Earthquake Engineering, 2011, 31, 463-469.	1.9	5
22	Damage detection for truss or frame structures using an axial strain flexibility. Smart Structures and Systems, 2009, 5, 291-316.	1.9	5
23	Estimation of Road Roughness Based on Tire Pressure Monitoring. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	5
24	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
25	Simultaneous Identification of Moving Vehicles and Bridge Damages Considering Road Rough Surface. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	4
26	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
27	Study of hierarchical decentralized vibration control of structures. , 2006, 6174, 199.		3
28	Suction-based active aerodynamic control of wind loads on super high-rise buildings. Advances in Structural Engineering, 2016, 19, 1092-1102.	1.2	3
29	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
30	Smart Sensors and Integrated Shm System for Offshore Structures. , 2005, , 269-278.		2
31	Updating finite element model of structures with semi-rigid joints and boundary. , 2006, 6174, 1156.		2
32	Local strain monitoring study of offshore platform T shaped tubular joint using fiber Bragg grating sensors. , 2008, , .		2
33	An Algebraic Elimination by Substitution Algorithm for Vehicle–Bridge Interaction Problems. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	2
34	Structural damage detection by wavelet transform and probabilistic neural network. , 2005, , .		1
35	Convex Model for Earthquake Damage and Loss Estimation of Individual Buildings. Advances in Structural Engineering, 2010, 13, 537-549.	1.2	1
36	Numerical Simulation of Vortex-Induced Vibrations on a Flexible Riser in Uniform Currents. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
37	\<title>The application of ultrasonic phased array system to the inspection of fillet weld of flat plate\</title>. , 2007, , .		0
38	Ultrasonic phased array inspection imaging technology for NDT of offshore platform structures. Proceedings of SPIE, 2008, , .	0.8	0
39	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
40	The Hierarchical Decentralized Fault Tolerate Control for Building Structure Experiment Research. , 2009, , .		0
41	Damage identification using substructural virtual distortion method. , 2012, , .		0
42	Convex model for gross domestic product-based dynamic earthquake loss assessment method. Natural Hazards, 2012, 60, 589-604.	1.6	0
43	Convex Set and Probabilistic Model-Based Hybrid Earthquake Loss Assessment Method. Advances in Structural Engineering, 2015, 18, 513-524.	1.2	0