

Xiaoqing Zhou

List of Publications by Year in descending order

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35
papers

1,861
citations

394421

19
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of compressive behaviour of concrete-like materials at high strain rate. International Journal of Solids and Structures, 2008, 45, 4648-4661.	2.7	346
2	Mesoscale modelling of concrete tensile failure mechanism at high strain rates. Computers and Structures, 2008, 86, 2013-2026.	4.4	178
3	Numerical prediction of concrete slab response to blast loading. International Journal of Impact Engineering, 2008, 35, 1186-1200.	5.0	177
4	Field monitoring and numerical analysis of Tsing Ma Suspension Bridge temperature behavior. Structural Control and Health Monitoring, 2013, 20, 560-575.	4.0	168
5	Characterization of the mechanical properties of eco-friendly concrete made with untreated sea sand and seawater based on statistical analysis. Construction and Building Materials, 2020, 234, 117339.	7.2	127
6	Prediction of airblast loads on structures behind a protective barrier. International Journal of Impact Engineering, 2008, 35, 363-375.	5.0	105
7	Variation of structural vibration characteristics versus non-uniform temperature distribution. Engineering Structures, 2011, 33, 146-153.	5.3	88
8	Structural damage detection based on l_1 -regularization using natural frequencies and mode shapes. Structural Control and Health Monitoring, 2018, 25, e2107.	4.0	81
9	Mesoscale modelling and analysis of damage and fragmentation of concrete slab under contact detonation. International Journal of Impact Engineering, 2009, 36, 1315-1326.	5.0	79
10	Selection of regularization parameter for l_1 -regularized damage detection. Journal of Sound and Vibration, 2018, 423, 141-160.	3.9	72
11	Inverse substructure method for model updating of structures. Journal of Sound and Vibration, 2012, 331, 5449-5468.	3.9	48
12	Improved substructuring method for eigensolutions of large-scale structures. Journal of Sound and Vibration, 2009, 323, 718-736.	3.9	46
13	Genetic algorithm based optimal sensor placement for l_1 -regularized damage detection. Structural Control and Health Monitoring, 2019, 26, e2274.	4.0	42
14	Substructuring approach to the calculation of higher-order eigensensitivity. Computers and Structures, 2013, 117, 23-33.	4.4	34
15	Sparse Bayesian learning for structural damage detection using expectation-maximization technique. Structural Control and Health Monitoring, 2019, 26, e2343.	4.0	28
16	Structural damage measure index based on non-probabilistic reliability model. Journal of Sound and Vibration, 2014, 333, 1344-1355.	3.9	25
17	Structural damage detection based on variational Bayesian inference and delayed rejection adaptive Metropolis algorithm. Structural Health Monitoring, 2021, 20, 1518-1535.	7.5	23
18	Structural damage detection of space frame structures with semi-rigid connections. Engineering Structures, 2021, 235, 112029.	5.3	21

#	ARTICLE	IF	CITATIONS
19	Element-by-element model updating of large-scale structures based on component mode synthesis method. <i>Journal of Sound and Vibration</i> , 2016, 362, 72-84.	3.9	19
20	Comparisons between Modal-Parameter-Based and Flexibility-Based Damage Identification Methods. <i>Advances in Structural Engineering</i> , 2013, 16, 1611-1619.	2.4	17
21	Sensor Placement for Structural Damage Detection considering Measurement Uncertainties. <i>Advances in Structural Engineering</i> , 2013, 16, 899-907.	2.4	16
22	Laplace approximation in sparse Bayesian learning for structural damage detection. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106701.	8.0	16
23	Numerical Prediction of Reinforced Concrete Exterior Wall Response to Blast Loading. <i>Advances in Structural Engineering</i> , 2008, 11, 355-367.	2.4	15
24	On perforation of ductile metallic plates by blunt rigid projectile. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 273-283.	3.7	14
25	Enhancing the Performance of CFRP Shear-Strengthened RC Beams Using "Ductile" Anchoring Devices. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	14
26	Dynamic behavior of microcapsule-based self-healing concrete subjected to impact loading. <i>Construction and Building Materials</i> , 2021, 301, 124322.	7.2	14
27	Behaviors of Large-Rupture-Strain Fiber-Reinforced Polymer Strengthened Reinforced Concrete Beams Under Static and Impact Loads. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	11
28	A videogrammetric technique for measuring the vibration displacement of stay cables. <i>Geo-Spatial Information Science</i> , 2012, 15, 135-141.	5.3	10
29	Structural damage detection based on iteratively reweighted l_1 regularization algorithm. <i>Advances in Structural Engineering</i> , 2019, 22, 1479-1487.	2.4	9
30	Verification of a Cable Element for Cable Parametric Vibration of One-Cable-Beam System Subject to Harmonic Excitation and Random Excitation. <i>Advances in Structural Engineering</i> , 2011, 14, 589-595.	2.4	7
31	VIBRATION-BASED STRUCTURAL DAMAGE DETECTION UNDER VARYING TEMPERATURE CONDITIONS. <i>International Journal of Structural Stability and Dynamics</i> , 2013, 13, 1250082.	2.4	6
32	Random Aggregate Generation and Mesoscale Modeling of Concrete under High Strain Rate Compression. <i>Applied Mechanics and Materials</i> , 2011, 71-78, 733-736.	0.2	2
33	MESOSCALE MODELING OF CONCRETE UNDER DYNAMIC SPLIT TENSION. <i>Journal of Earthquake and Tsunami</i> , 2013, 07, 1350028.	1.3	2
34	Numerical simulation and ultimate deformation model of FRP-plated RC beams using H-type end anchorage. <i>Construction and Building Materials</i> , 2021, 305, 124314.	7.2	1
35	Calculation of CQC mode correlation coefficients under filtered white noise model of earthquake ground motion. <i>Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering</i> , 2018, 35, 128.	0.2	0