

Guido De Roeck

List of Publications by Year in descending order

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34
papers

3,774
citations

516215

16
h-index

454577

30
g-index

35
all docs

35
docs citations

35
times ranked

1931
citing authors

#	ARTICLE	IF	CITATIONS
1	REFERENCE-BASED STOCHASTIC SUBSPACE IDENTIFICATION FOR OUTPUT-ONLY MODAL ANALYSIS. Mechanical Systems and Signal Processing, 1999, 13, 855-878.	4.4	1,110
2	Stochastic System Identification for Operational Modal Analysis: A Review. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 659-667.	0.9	728
3	One-year monitoring of the Z24-Bridge: environmental effects versus damage events. Earthquake Engineering and Structural Dynamics, 2001, 30, 149-171.	2.5	710
4	Uncertainty bounds on modal parameters obtained from stochastic subspace identification. Mechanical Systems and Signal Processing, 2008, 22, 948-969.	4.4	320
5	Output-only structural health monitoring in changing environmental conditions by means of nonlinear system identification. Structural Health Monitoring, 2014, 13, 82-93.	4.3	176
6	Uncertainty quantification in operational modal analysis with stochastic subspace identification: Validation and applications. Mechanical Systems and Signal Processing, 2016, 66-67, 13-30.	4.4	132
7	The state-of-the-art of damage detection by vibration monitoring: the SIMCES experience. Structural Control and Health Monitoring, 2003, 10, 127-134.	0.4	91
8	Damage Identification on the Tilff Bridge by Vibration Monitoring Using Optical Fiber Strain Sensors. Journal of Engineering Mechanics - ASCE, 2007, 133, 185-193.	1.6	88
9	Damage Detection of a Prestressed Concrete Beam Using Modal Strains. Journal of Structural Engineering, 2005, 131, 1456-1463.	1.7	53
10	Damage identification using modal strains identified from operational fiber-optic Bragg grating data. Structural Health Monitoring, 2018, 17, 1441-1459.	4.3	52
11	Optimal sensor placement for multi-setup modal analysis of structures. Journal of Sound and Vibration, 2017, 401, 214-232.	2.1	48
12	Identification of modal strains using sub-microstrain FBG data and a novel wavelength-shift detection algorithm. Mechanical Systems and Signal Processing, 2017, 86, 58-74.	4.4	33
13	Numerical and Experimental Evaluation of the Dynamic Performance of a Footbridge with Tuned Mass Dampers. Journal of Bridge Engineering, 2016, 21, .	1.4	29
14	Dynamic Analysis of Multispan Viaducts with Weak Coupling between Adjacent Spans. Journal of Bridge Engineering, 2014, 19, 83-90.	1.4	25
15	Damage detection and parameter identification by finite element model updating. Revue Européenne De Génie Civil, 2005, 9, 109-158.	0.0	22
16	Influence of damage versus temperature on modal strains and neutral axis positions of beam-like structures. Mechanical Systems and Signal Processing, 2019, 134, 106311.	4.4	22
17	Stabil: An educational Matlab toolbox for static and dynamic structural analysis. Computer Applications in Engineering Education, 2021, 29, 1372-1389.	2.2	21
18	Model updating of periodic structures based on free wave characteristics. Journal of Sound and Vibration, 2019, 442, 281-307.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Numerical and experimental analysis of the vibration serviceability of the Bearsâ€™™ Cage footbridge. Structure and Infrastructure Engineering, 2017, 13, 390-400.	2.0	11
20	Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. Applied Sciences (Switzerland), 2020, 10, 2347.	1.3	11
21	Consistent Impulse-Response Estimation and System Realization From Noisy Data. IEEE Transactions on Signal Processing, 2008, 56, 2696-2705.	3.2	10
22	Effects of initial conditions in operational modal analysis. Structural Control and Health Monitoring, 2014, 21, 557-573.	1.9	9
23	Testing of a Prestressed Concrete Girder to Study the Enhanced Performance of Monitoring by Integrating Optical Fiber Sensors. Journal of Structural Engineering, 2007, 133, 541-549.	1.7	8
24	Vibration-based monitoring of an FRP footbridge with embedded fiber-Bragg gratings: Influence of temperature vs.Â damage. Composite Structures, 2022, 287, 115295.	3.1	8
25	Damage Evaluation of Free-Free Beam Based on Vibration Testing. Applied Mechanics, 2020, 1, 142-152.	0.7	5
26	Model updating for a large multi-span quasi-periodic viaduct based on free wave characteristics. Journal of Sound and Vibration, 2021, 506, 116161.	2.1	5
27	Seismic demands and analysis of site effects in the Marmara region during the 1999 Kocaeli earthquake. Natural Hazards, 2007, 42, 169-191.	1.6	4
28	Damage detection in steel plates using feed-forward neural network coupled with hybrid particle swarm optimization and gravitational search algorithm. Journal of Zhejiang University: Science A, 2021, 22, 467-480.	1.3	4
29	Simulation of Human-induced Vibrations Based on the Characterized In-field Pedestrian Behavior. Journal of Visualized Experiments, 2016, , .	0.2	2
30	Damage Identification Using Sub-Microstrain FBG Data from a Pre-Stressed Concrete Beam During Progressive Damage Testing. Proceedings (mdpi), 2018, 2, .	0.2	1
31	Identification of modal strains in concrete beams at sub-microstrain amplitude excitation using fibre Bragg grating sensors mounted on a strain-amplifying transducer. Structural Health Monitoring, 2021, 20, 1221-1230.	4.3	1
32	Experimental analysis of the shear behaviour of prestressed and reinforced concrete beams. European Journal of Environmental and Civil Engineering, 2018, 22, 288-314.	1.0	0
33	Vibration-based structural health monitoring from operational long- gauge fiber optic strain data. , 2021, , .		0
34	Multi-setup Operational Modal Testing of a Multi-span Viaduct. IABSE Symposium Report, 2018, , .	0.0	0