

# Guido De Roeck

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7320823/publications.pdf>

Version: 2024-02-01

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	Vibration-based monitoring of an FRP footbridge with embedded fiber-Bragg gratings: Influence of temperature vs. damage. <i>Composite Structures</i> , 2022, 287, 115295.	3.1	8
2	Identification of modal strains in concrete beams at sub-microstrain amplitude excitation using fibre Bragg grating sensors mounted on a strain-amplifying transducer. <i>Structural Health Monitoring</i> , 2021, 20, 1221-1230.	4.3	1
3	Stabil: An educational Matlab toolbox for static and dynamic structural analysis. <i>Computer Applications in Engineering Education</i> , 2021, 29, 1372-1389.	2.2	21
4	Damage detection in steel plates using feed-forward neural network coupled with hybrid particle swarm optimization and gravitational search algorithm. <i>Journal of Zhejiang University: Science A</i> , 2021, 22, 467-480.	1.3	4
5	Model updating for a large multi-span quasi-periodic viaduct based on free wave characteristics. <i>Journal of Sound and Vibration</i> , 2021, 506, 116161.	2.1	5
6	Vibration-based structural health monitoring from operational long-gauge fiber optic strain data. , 2021, , .		0
7	Damage Evaluation of Free-Free Beam Based on Vibration Testing. <i>Applied Mechanics</i> , 2020, 1, 142-152.	0.7	5
8	Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2347.	1.3	11
9	Influence of damage versus temperature on modal strains and neutral axis positions of beam-like structures. <i>Mechanical Systems and Signal Processing</i> , 2019, 134, 106311.	4.4	22
10	Model updating of periodic structures based on free wave characteristics. <i>Journal of Sound and Vibration</i> , 2019, 442, 281-307.	2.1	12
11	Damage identification using modal strains identified from operational fiber-optic Bragg grating data. <i>Structural Health Monitoring</i> , 2018, 17, 1441-1459.	4.3	52
12	Experimental analysis of the shear behaviour of prestressed and reinforced concrete beams. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, 288-314.	1.0	0
13	Damage Identification Using Sub-Microstrain FBG Data from a Pre-Stressed Concrete Beam During Progressive Damage Testing. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
14	Multi-setup Operational Modal Testing of a Multi-span Viaduct. <i>IABSE Symposium Report</i> , 2018, , .	0.0	0
15	Numerical and experimental analysis of the vibration serviceability of the Bears™ Cage footbridge. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 390-400.	2.0	11
16	Optimal sensor placement for multi-setup modal analysis of structures. <i>Journal of Sound and Vibration</i> , 2017, 401, 214-232.	2.1	48
17	Identification of modal strains using sub-microstrain FBG data and a novel wavelength-shift detection algorithm. <i>Mechanical Systems and Signal Processing</i> , 2017, 86, 58-74.	4.4	33
18	Simulation of Human-induced Vibrations Based on the Characterized In-field Pedestrian Behavior. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	2

#	ARTICLE	IF	CITATIONS
19	Numerical and Experimental Evaluation of the Dynamic Performance of a Footbridge with Tuned Mass Dampers. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	29
20	Uncertainty quantification in operational modal analysis with stochastic subspace identification: Validation and applications. <i>Mechanical Systems and Signal Processing</i> , 2016, 66-67, 13-30.	4.4	132
21	Output-only structural health monitoring in changing environmental conditions by means of nonlinear system identification. <i>Structural Health Monitoring</i> , 2014, 13, 82-93.	4.3	176
22	Effects of initial conditions in operational modal analysis. <i>Structural Control and Health Monitoring</i> , 2014, 21, 557-573.	1.9	9
23	Dynamic Analysis of Multispan Viaducts with Weak Coupling between Adjacent Spans. <i>Journal of Bridge Engineering</i> , 2014, 19, 83-90.	1.4	25
24	Uncertainty bounds on modal parameters obtained from stochastic subspace identification. <i>Mechanical Systems and Signal Processing</i> , 2008, 22, 948-969.	4.4	320
25	Consistent Impulse-Response Estimation and System Realization From Noisy Data. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 2696-2705.	3.2	10
26	Damage Identification on the Tilff Bridge by Vibration Monitoring Using Optical Fiber Strain Sensors. <i>Journal of Engineering Mechanics - ASCE</i> , 2007, 133, 185-193.	1.6	88
27	Testing of a Prestressed Concrete Girder to Study the Enhanced Performance of Monitoring by Integrating Optical Fiber Sensors. <i>Journal of Structural Engineering</i> , 2007, 133, 541-549.	1.7	8
28	Seismic demands and analysis of site effects in the Marmara region during the 1999 Kocaeli earthquake. <i>Natural Hazards</i> , 2007, 42, 169-191.	1.6	4
29	Damage detection and parameter identification by finite element model updating. <i>Revue Européenne De Génie Civil</i> , 2005, 9, 109-158.	0.0	22
30	Damage Detection of a Prestressed Concrete Beam Using Modal Strains. <i>Journal of Structural Engineering</i> , 2005, 131, 1456-1463.	1.7	53
31	The state-of-the-art of damage detection by vibration monitoring: the SIMCES experience. <i>Structural Control and Health Monitoring</i> , 2003, 10, 127-134.	0.4	91
32	Stochastic System Identification for Operational Modal Analysis: A Review. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001, 123, 659-667.	0.9	728
33	One-year monitoring of the Z24-Bridge: environmental effects versus damage events. <i>Earthquake Engineering and Structural Dynamics</i> , 2001, 30, 149-171.	2.5	710
34	REFERENCE-BASED STOCHASTIC SUBSPACE IDENTIFICATION FOR OUTPUT-ONLY MODAL ANALYSIS. <i>Mechanical Systems and Signal Processing</i> , 1999, 13, 855-878.	4.4	1,110