

Abdollah Malekjafarian

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42 papers	675 citations	12 h-index	25 g-index
42 ext. papers	991 ext. citations	2.9 avg, IF	4.81 L-index

#	Paper	IF	Citations
42	A data-driven approach for drive-by damage detection in bridges considering the influence of temperature change. <i>Engineering Structures</i> , 2022 , 253, 113783	4.7	10
41	Free vibration analysis of deep doubly curved soft-core sandwich panels with different boundary conditions. <i>Structures</i> , 2022 , 40, 880-901	3.4	0
40	Foundation damping for monopile supported offshore wind turbines: A review. <i>Marine Structures</i> , 2021 , 77, 102937	3.8	10
39	Examining changes in bridge frequency due to damage using the contact-point response of a passing vehicle. <i>Journal of Structural Integrity and Maintenance</i> , 2021 , 6, 148-158	1.5	8
38	Railway Track Loss-of-Stiffness Detection Using Bogie Filtered Displacement Data Measured on a Passing Train. <i>Infrastructures</i> , 2021 , 6, 93	2.6	2
37	On the modeling of the annual corrosion rate in main cables of suspension bridges using combined soft computing model and a novel nature-inspired algorithm. <i>Neural Computing and Applications</i> , 2021 , 33, 15969	4.8	6
36	Drive-by Bridge Health Monitoring Using Multiple Passes and Machine Learning. <i>Lecture Notes in Civil Engineering</i> , 2021 , 695-703	0.3	
35	Experimental Demonstration of a Mode Shape-Based Scour-Monitoring Method for Multispan Bridges with Shallow Foundations. <i>Journal of Bridge Engineering</i> , 2020 , 25, 04020050	2.7	11
34	Bridge health monitoring using deflection measurements under random traffic. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2593	4.5	9
33	Bridge flexural rigidity calculation using measured drive-by deflections. <i>Journal of Civil Structural Health Monitoring</i> , 2020 , 10, 833-844	2.9	7
32	Identifying Critical Clusters of Traffic-Loading Events in Recurrent Congested Conditions on a Long-Span Road Bridge. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5423	2.6	
31	Use of mode shape ratios for pier scour monitoring in two-span integral bridges under changing environmental conditions. <i>Canadian Journal of Civil Engineering</i> , 2020 , 47, 962-973	1.3	6
30	A Machine Learning Approach to Bridge-Damage Detection Using Responses Measured on a Passing Vehicle. <i>Sensors</i> , 2019 , 19,	3.8	29
29	Scour Damage Detection and Structural Health Monitoring of a Laboratory-Scaled Bridge Using a Vibration Energy Harvesting Device. <i>Sensors</i> , 2019 , 19,	3.8	29
28	Drive-by scour monitoring of railway bridges using a wavelet-based approach. <i>Engineering Structures</i> , 2019 , 191, 1-11	4.7	32
27	On the Use of Ensemble Empirical Mode Decomposition for the Identification of Bridge Frequency from the Responses Measured in a Passing Vehicle. <i>Infrastructures</i> , 2019 , 4, 32	2.6	13
26	Evaluation of the extreme traffic load effects on the Forth Road Bridge using image analysis of traffic data. <i>Advances in Engineering Software</i> , 2019 , 137, 102711	3.6	8

25	On the estimation of foundation damping of mono pile-supported offshore wind turbines. <i>Vibroengineering PROCEDIA</i> , 2019 , 23, 7-12	0.4	4
24	Railway Track Monitoring Using Train Measurements: An Experimental Case Study. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4859	2.6	19
23	Estimation of Railway Track Longitudinal Profile Using Vehicle-Based Inertial Measurements. <i>Sustainable Civil Infrastructures</i> , 2019 , 1-6	0.2	1
22	Modal participation in multiple input Ibrahim time domain identification. <i>Mathematics and Mechanics of Solids</i> , 2019 , 24, 168-180	2.3	3
21	An alternative roughness index to IRI for flexible pavements. <i>Canadian Journal of Civil Engineering</i> , 2018 , 45, 659-666	1.3	1
20	An accurate estimation of frequency response functions in output-only measurements. <i>Archive of Applied Mechanics</i> , 2018 , 88, 837-853	2.2	2
19	Indirect Monitoring of Critical Transport Infrastructure 2018 , 143-162		3
18	Estimation of Extreme Load Effects on Long-Span Bridges Using Traffic Image Data. <i>Baltic Journal of Road and Bridge Engineering</i> , 2018 , 13, 429-446	0.9	3
17	Detection of vehicle wheels from images using a pseudo-wavelet filter for analysis of congested traffic. <i>IET Image Processing</i> , 2018 , 12, 2222-2228	1.7	3
16	The Feasibility of Using Laser Doppler Vibrometer Measurements from a Passing Vehicle for Bridge Damage Detection. <i>Shock and Vibration</i> , 2018 , 2018, 1-10	1.1	7
15	Investigation of Buckling Capacity of Metal Materials Manufactured by Laser 3D Printing. <i>Procedia Manufacturing</i> , 2017 , 7, 696-700	1.5	4
14	On the use of a passing vehicle for the estimation of bridge mode shapes. <i>Journal of Sound and Vibration</i> , 2017 , 397, 77-91	3.9	49
13	Bridge weigh-in-motion using a moving force identification algorithm. <i>Procedia Engineering</i> , 2017 , 199, 2955-2960		6
12	Bridge damage detection using vehicle axle-force information. <i>Engineering Structures</i> , 2017 , 153, 71-80	4.7	10
11	Damage detection using curvatures obtained from vehicle measurements. <i>Journal of Civil Structural Health Monitoring</i> , 2017 , 7, 333-341	2.9	14
10	Application of empirical mode decomposition to drive-by bridge damage detection. <i>European Journal of Mechanics, A/Solids</i> , 2017 , 61, 151-163	3.7	65
9	Direct field measurement of the dynamic amplification in a bridge. <i>Mechanical Systems and Signal Processing</i> , 2017 , 85, 601-609	7.8	12
8	A mode shape-based damage detection approach using laser measurement from a vehicle crossing a simply supported bridge. <i>Structural Control and Health Monitoring</i> , 2016 , 23, 1273-1286	4.5	61

7	A Review of Indirect Bridge Monitoring Using Passing Vehicles. <i>Shock and Vibration</i> , 2015 , 2015, 1-16	1.1	84
6	Identification of bridge mode shapes using Short Time Frequency Domain Decomposition of the responses measured in a passing vehicle. <i>Engineering Structures</i> , 2014 , 81, 386-397	4.7	105
5	Determination of mode shapes using wavelet transform of free vibration data. <i>Archive of Applied Mechanics</i> , 2013 , 83, 907-921	2.2	3
4	Identification of inertia properties from the results of output-only modal analysis. <i>Archive of Applied Mechanics</i> , 2013 , 83, 923-937	2.2	3
3	Mass-stiffness change method for scaling of operational mode shapes. <i>Mechanical Systems and Signal Processing</i> , 2012 , 26, 34-59	7.8	28
2	On the accuracy of estimation of rigid body inertia properties from modal testing results. <i>Structural Engineering and Mechanics</i> , 2010 , 35, 53-65		4
1	The calibration challenge when inferring longitudinal track profile from the inertial response of an in-service train. <i>Canadian Journal of Civil Engineering</i> ,	1.3	1