Javad Baqersad

List of Publications by Year in descending order

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61 papers	1,439 citations	361413 20 h-index	345221 36 g-index
63 all docs	63 docs citations	63 times ranked	845 citing authors

#	Article	IF	Citations
1	Photogrammetry and optical methods in structural dynamics â€“ A review. Mechanical Systems and Signal Processing, 2017, 86, 17-34.	8.0	357
2	Large-area photogrammetry based testing of wind turbine blades. Mechanical Systems and Signal Processing, 2017, 86, 98-115.	8.0	126
3	Extracting full-field dynamic strain on a wind turbine rotor subjected to arbitrary excitations using 3D point tracking and a modal expansion technique. Journal of Sound and Vibration, 2015, 352, 16-29.	3.9	103
4	Full-field dynamic strain prediction on a wind turbine using displacements of optical targets measured by stereophotogrammetry. Mechanical Systems and Signal Processing, 2015, 62-63, 284-295.	8.0	86
5	Non-contact vibration monitoring of rotating wind turbines using a semi-autonomous UAV. Mechanical Systems and Signal Processing, 2020, 138, 106446.	8.0	77
6	Full-field strain prediction using mode shapes measured with digital image correlation. Measurement: Journal of the International Measurement Confederation, 2019, 139, 326-333.	5.0	53
7	A multi-view optical technique to obtain mode shapes of structures. Measurement: Journal of the International Measurement Confederation, 2018, 122, 358-367.	5.0	42
8	Structural health monitoring of wind turbine blades using acoustic microphone array. Structural Health Monitoring, 2017, 16, 471-485.	7.5	37
9	Vibration analysis of healthy skin: toward a noninvasive skin diagnosis methodology. Journal of Biomedical Optics, 2019, 24, 1.	2.6	37
10	An optical-based technique to obtain operating deflection shapes of structures with complex geometries. Mechanical Systems and Signal Processing, 2019, 128, 69-81.	8.0	36
11	Dynamic characteristics of a wind turbine blade using 3D digital image correlation. Proceedings of SPIE, 2012, , .	0.8	35
12	A Noncontacting Approach for Full-Field Strain Monitoring of Rotating Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.6	35
13	Mechanical modeling and characterization of human skin: A review. Journal of Biomechanics, 2022, 130, 110864.	2.1	30
14	Strain expansion-reduction approach. Mechanical Systems and Signal Processing, 2018, 101, 156-167.	8.0	29
15	Monitoring the Dynamics of a Helicopter Main Rotor With High-Speed Stereophotogrammetry. Experimental Techniques, 2016, 40, 907-919.	1.5	27
16	Using High-Speed Stereophotogrammetry Techniques to Extract Shape Information from Wind Turbine/Rotor Operating Data. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 269-275.	0.5	26
17	Dynamic Stressâ€“Strain on Turbine Blade Using Digital Image Correlation Techniques Part 1: Static Load and Calibration. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 215-220.	0.5	26
18	Dynamic Stressâ€“Strain on Turbine Blades Using Digital Image Correlation Techniques Part 2: Dynamic Measurements. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 221-226.	0.5	26

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19	Comparison of Modal Parameters Extracted Using MIMO, SIMO, and Impact Hammer Tests on a Three-Bladed Wind Turbine. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 185-197.	0.5	21
20	Digital Image Correlation Techniques for NDE and SHM. , 2018, , 1-46.		21
21	Using High-Speed Stereophotogrammetry to Collect Operating Data on a Robinson R44 Helicopter. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 401-410.	0.5	21
22	A multi-view optical technique to extract the operating deflection shapes of a full vehicle using digital image correlation. Thin-Walled Structures, 2019, 145, 106426.	5.3	14
23	Study of metallic thin films on epoxy matrix as protective barrier to ultraviolet radiation. Surface and Coatings Technology, 2019, 367, 41-48.	4.8	13
24	Using Digital Image Correlation to Measure Dynamics of Rolling Tires. , 2018, , .		10
25	Predicting Dynamic Strain on Wind Turbine Blade Using Digital Image Correlation Techniques in Conjunction with Analytical Expansion Methodologies. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 295-302.	0.5	10
26	Extracting vibration characteristics of a guitar using finite element, modal analysis, and digital image correlation techniques. Proceedings of Meetings on Acoustics, 2016, , .	0.3	9
27	Dynamic Characterization of a Free-Free Wind Turbine Blade Assembly. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 303-312.	0.5	9
28	Numerical and Experimental Analysis of the Boundary Conditions Effects on the Dynamics of Wind Turbines. Wind Engineering, 2015, 39, 437-452.	1.9	8
29	Predicting Full-Field Strain on a Wind Turbine for Arbitrary Excitation Using Displacements of Optical Targets Measured with Photogrammetry. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 99-114.	0.5	8
30	Digital Image Correlation Techniques for NDE and SHM. , 2019, , 1545-1590.		8
31	A Multi-View Digital Image Correlation for Extracting Mode Shapes of a Tire. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 211-217.	0.5	7
32	Synergistic effects of environmental exposures on polymer matrix with or without metallic coating protection. Journal of Composite Materials, 2018, 52, 3773-3784.	2.4	7
33	Strain monitoring of wind turbines using a semi-autonomous drone. Wind Engineering, 0, , 0309524X2110278.	1.9	7
34	Practical Techniques for Scaling of Optically Measured Operating Deflection Shapes. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 1-17.	0.5	6
35	Modal Expansion using Strain Mode Shapes. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 219-226.	0.5	6
36	Development of a Semi-autonomous Drone for Structural Health Monitoring of Structures Using Digital Image Correlation (DIC). Conference Proceedings of the Society for Experimental Mechanics, 2019, , 49-57.	0.5	6

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37	An Optical-Based Technique to Obtain Vibration Characteristics of Rotating Tires. SAE International Journal of Vehicle Dynamics, Stability, and NVH, 0, 3, .	0.5	6
38	An acoustic-array based structural health monitoring technique for wind turbine blades. , 2015, , .		5
39	A Multi-view DIC Approach to Extract Operating Mode Shapes of Structures. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 43-48.	0.5	4
40	Acoustic Signature Analysis and Sound Source Localization for a Three-Phase AC Induction Motor. Energies, 2021, 14, 7182.	3.1	4
41	Using digital image correlation and three dimensional point tracking in conjunction with real time operating data expansion techniques to predict full-field dynamic strain. AIP Conference Proceedings, 2014, , .	0.4	3
42	Predicting full-field dynamic strain on a three-bladed wind turbine using three dimensional point tracking and expansion techniques. Proceedings of SPIE, 2014, , .	0.8	3
43	Extracting full-field dynamic strain response of a rotating wind turbine using photogrammetry. , 2015, , .		3
44	Investigation and Development of a Slip Model forÂa Basic Rigid Ring Ride Model. , 0, , .		3
45	Effects of Boundary Conditions on the Structural Dynamics of Wind Turbine Bladesâ€”Part 1: Flapwise Modes. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 355-368.	0.5	3
46	Nondestructive evaluation of carbon-fiber composites using digital image correlation, acoustic emission, and optical based modal analysis. Wind Engineering, 2022, 46, 1618-1628.	1.9	3
47	Effects of Boundary Conditions and Inflation Pressure on the Natural Frequencies and 3D Mode Shapes of a Tire. , 2017, , .		2
48	Structural Health Monitoring of Wind Turbines Using a Digital Image Correlation System on a UAV. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 85-91.	0.5	2
49	Effects of Boundary Conditions on the Structural Dynamics of Wind Turbine Blades. Part 2: Edgewise Modes. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 369-380.	0.5	2
50	Identify challenges in vibration measurements for rotating tyres using a finite element model. International Journal of Vehicle Noise and Vibration, 2020, 16, 113.	0.1	2
51	A Non-Contact Technique for Vibration Measurement of Automotive Structures. , 0, , .		1
52	Structural Vibration and Acoustic Analysis of a 3-Phase AC Induction Motor. , 0, , .		1
53	Extracting Natural Frequencies of Layered Beams Using a Continuous Variation Model and Modal Analysis. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 67-76.	0.5	0
54	Vibration Suppression of MR Sandwich Beams Based On Fuzzy Logic. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 227-238.	0.5	0

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55	Experimental modal analysis on a tyre - lessons learned. International Journal of Vehicle Noise and Vibration, 2017, 13, 200.	0.1	0
56	Logic Analytical Modeling of Piezoelectric Energy Harvesters under Random Base Excitation. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 239-249.	0.5	0
57	Feasibility Study Using FE Model for Tire Load Estimation. , 0, , .		0
58	Noise, Vibration, and Harshness Considerations for Autonomous Vehicle Perception Equipment. , 0, , .		0
59	DIC and Photogrammetry for Structural Dynamic Analysis and High-Speed Testing. , 2020, , 1-70.		0
60	Implementation of an Innovation and Entrepreneur Mindset Concept into Mechanics of Materials Course. , 0, , .		0
61	DIC and Photogrammetry for Structural Dynamic Analysis and High-Speed Testing. , 2022, , 409-478.		0