

Carlos A Bavastri

List of Publications by Year in descending order

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37
papers

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citations

687363

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39
times ranked

429
citing authors

#	ARTICLE	IF	CITATIONS
1	A Short Note on Synchrosqueezed Transforms for Resonant Capture, Sommerfeld Effect and Nonlinear Jump Characterization in Mechanical Systems. <i>Journal of Vibration Engineering and Technologies</i> , 2023, 11, 429-434.	2.2	5
2	Suppression of the Sommerfeld Effect in a Cantilever Beam Through a Viscoelastic Dynamic Neutralizer: An Experimental Study. , 2022, , 135-143.		0
3	Stability analysis and optimization of a hybrid rotating machinery support combining journal bearings with viscoelastic supports. <i>Mechanism and Machine Theory</i> , 2021, 156, 104166.	4.5	6
4	Magnetorheological elastomer dynamic characterization method considering temperature, frequency, and magnetic field. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	1.6	6
5	Optimal design of multi-DOF viscoelastic dynamic neutralizers for passive vibration control in rotordynamics. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	0
6	Numerical and experimental investigation of the dynamic behavior of a cantilever beam driven by two non-ideal sources. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	6
7	Embedded FBG Sensors in Carbon Fiber for Vibration and Temperature Measurement in Power Transformer Iron Core. <i>IEEE Sensors Journal</i> , 2020, 20, 13403-13410.	4.7	23
8	Integrated Dynamic Characterization of Thermorheologically Simple Viscoelastic Materials Accounting for Frequency, Temperature, and Preload Effects. <i>Materials</i> , 2019, 12, 1962.	2.9	3
9	A methodology for an optimal design of physical parameters, positions, and viscoelastic materials of simple dynamic absorbers for passive vibration control. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 1133-1147.	2.6	8
10	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber. <i>IEEE Sensors Journal</i> , 2019, 19, 3690-3697.	4.7	12
11	Building Structure with Pendulum Neutralizer Vibration Analysis Using FBGs Strain Sensors. , 2019, , .		0
12	Quasi-Distributed Optical Fiber Transducer for Simultaneous Temperature and Vibration Sensing in High-Power Generators. <i>IEEE Sensors Journal</i> , 2018, 18, 1547-1554.	4.7	14
13	Experimental identification of structural changes and cracks in beams using a single accelerometer. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	1
14	Optimal design of a viscoelastic vibration neutralizer for rotating systems: Flexural control by slope degree of freedom. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3525-3537.	2.6	9
15	Experimental implementation of an optimum viscoelastic vibration absorber for cubic nonlinear systems. <i>Engineering Structures</i> , 2018, 163, 323-331.	5.3	13
16	Analysis of sensor placement in beams for crack identification. <i>Latin American Journal of Solids and Structures</i> , 2018, 15, .	1.0	3
17	A numerical and experimental study on optimal design of multi-DOF viscoelastic supports for passive vibration control in rotating machinery. <i>Journal of Sound and Vibration</i> , 2017, 411, 346-361.	3.9	22
18	Vibration analysis of a cantilever beam with viscoelastic neutralizers using fiber Bragg gratings. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Identifying Mechanical Properties of Viscoelastic Materials in Time Domain Using the Fractional Zener Model. Latin American Journal of Solids and Structures, 2017, 14, 131-152.	1.0	13
20	Analysis of sensor placement in beams for crack identification. , 2017, , .		1
21	Induction Motors Vibration Monitoring Using a Biaxial Optical Fiber Accelerometer. IEEE Sensors Journal, 2016, 16, 8075-8082.	4.7	60
22	Influence of temperature on optimum viscoelastic absorbers in cubic nonlinear systems. JVC/Journal of Vibration and Control, 2016, 22, 3396-3412.	2.6	4
23	Viscoelastic Relaxation Modulus Characterization Using Prony Series. Latin American Journal of Solids and Structures, 2015, 12, 420-445.	1.0	38
24	Passive vibration control in rotor dynamics: Optimization of composed support using viscoelastic materials. Journal of Sound and Vibration, 2015, 351, 43-56.	3.9	47
25	A methodology to mitigate chatter through optimal viscoelastic absorber. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1348-1356.	2.4	7
26	Optimum viscoelastic absorbers for cubic nonlinear systems. JVC/Journal of Vibration and Control, 2014, 20, 1464-1474.	2.6	6
27	Acousto-optic control of the LPG spectrum for sensing applications. Proceedings of SPIE, 2011, , .	0.8	1
28	Fiber Bragg grating tuning with notch-type spring device. Measurement Science and Technology, 2011, 22, 085303.	2.6	4
29	Control of the long period grating spectrum through low frequency flexural acoustic waves. Measurement Science and Technology, 2011, 22, 045205.	2.6	13
30	On the passive control of vibrations with viscoelastic dynamic absorbers of ordinary and pendulum types. Journal of the Franklin Institute, 2010, 347, 102-115.	3.4	43
31	Design of optimum system of viscoelastic vibration absorbers with a Frobenius norm objective function. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2009, 31, .	1.6	8
32	Design of Optimum Systems of Viscoelastic Vibration Absorbers for a Given Material Based on the Fractional Calculus Model. JVC/Journal of Vibration and Control, 2008, 14, 1607-1630.	2.6	50
33	Modeling of dynamic rotors with flexible bearings due to the use of viscoelastic materials. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2008, 30, 22-29.	1.6	29
34	Critical Speed Verification of 18,000 HP Adjustable Speed Drive Motors for Offshore Production Applications. , 2006, , .		0
35	AN OPTIMISED PSEUDO-INVERSE ALGORITHM (OPIA) FOR MULTI-INPUT MULTI-OUTPUT MODAL PARAMETER IDENTIFICATION. Mechanical Systems and Signal Processing, 1996, 10, 365-380.	8.0	12
36	Optimum design of viscoelastic dynamic neutralizers for overhead transmission lines: distributed excitation model. , 0, , .		2

#	ARTICLE	IF	CITATIONS
37	Property identification of viscoelastic solid materials in nomograms using optimization techniques. Journal of Theoretical and Applied Mechanics, 0, , 1285.	0.5	5