Carlos A Bavastri

List of Publications by Year
in descending order

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37	507	687363 13	677142 22
papers	citations	h-index	g-index

39	39	39	429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Induction Motors Vibration Monitoring Using a Biaxial Optical Fiber Accelerometer. IEEE Sensors Journal, 2016, 16, 8075-8082.	4.7	60
2	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
3	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
4	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
5	Viscoelastic Relaxation Modulus Characterization Using Prony Series. Latin American Journal of Solids and Structures, 2015, 12, 420-445.	1.0	38
6	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
7	Embedded FBG Sensors in Carbon Fiber for Vibration and Temperature Measurement in Power Transformer Iron Core. IEEE Sensors Journal, 2020, 20, 13403-13410.	4.7	23
8	A numerical and experimental study on optimal design of multi-DOF viscoelastic supports for passive vibration control in rotating machinery. Journal of Sound and Vibration, 2017, 411, 346-361.	3.9	22
9	Quasi-Distributed Optical Fiber Transducer for Simultaneous Temperature and Vibration Sensing in High-Power Generators. IEEE Sensors Journal, 2018, 18, 1547-1554.	4.7	14
10	Control of the long period grating spectrum through low frequency flexural acoustic waves. Measurement Science and Technology, 2011, 22, 045205.	2.6	13
11	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
12	Experimental implementation of an optimum viscoelastic vibration absorber for cubic nonlinear systems. Engineering Structures, 2018, 163, 323-331.	5.3	13
13	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
14	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber. IEEE Sensors Journal, 2019, 19, 3690-3697.	4.7	12
15	Optimal design of a viscoelastic vibration neutralizer for rotating systems: Flexural control by slope degree of freedom. JVC/Journal of Vibration and Control, 2018, 24, 3525-3537.	2.6	9
16	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
17	A methodology for an optimal design of physical parameters, positions, and viscoelastic materials of simple dynamic absorbers for passive vibration control. JVC/Journal of Vibration and Control, 2019, 25, 1133-1147.	2.6	8
18	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

#	Article	IF	Citations
19	Optimum viscoelastic absorbers for cubic nonlinear systems. JVC/Journal of Vibration and Control, 2014, 20, 1464-1474.	2.6	6
20	Numerical and experimental investigation of the dynamic behavior of a cantilever beam driven by two non-ideal sources. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	6
21	Stability analysis and optimization of a hybrid rotating machinery support combining journal bearings with viscoelastic supports. Mechanism and Machine Theory, 2021, 156, 104166.	4.5	6
22	Magnetorheological elastomer dynamic characterization method considering temperature, frequency, and magnetic field. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	6
23	Property identification of viscoelastic solid materials in nomograms using optimization techniques. Journal of Theoretical and Applied Mechanics, 0, , 1285.	0.5	5
24	A Short Note on Synchrosqueezed Transforms for Resonant Capture, Sommerfeld Effect and Nonlinear Jump Characterization in Mechanical Systems. Journal of Vibration Engineering and Technologies, 2023, 11, 429-434.	2.2	5
25	Fiber Bragg grating tuning with notch-type spring device. Measurement Science and Technology, 2011, 22, 085303.	2.6	4
26	Influence of temperature on optimum viscoelastic absorbers in cubic nonlinear systems. JVC/Journal of Vibration and Control, 2016, 22, 3396-3412.	2.6	4
27	Analysis of sensor placement in beams for crack identification. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	3
28	Integrated Dynamic Characterization of Thermorheologically Simple Viscoelastic Materials Accounting for Frequency, Temperature, and Preload Effects. Materials, 2019, 12, 1962.	2.9	3
29	Optimum design of viscoelastic dynamic neutralizers for overhead transmission lines: distributed excitation model. , 0, , .		2
30	Acousto-optic control of the LPG spectrum for sensing applications. Proceedings of SPIE, 2011, , .	0.8	1
31	Experimental identification of structural changes and cracks in beams using a single accelerometer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	1
32	Analysis of sensor placement in beams for crack identification. , 2017, , .		1
33	Critical Speed Verification of 18,000 HP Adjustable Speed Drive Motors for Offshore Production Applications. , 2006, , .		0
34	Vibration analysis of a cantilever beam with viscoelastic neutralizers using fiber Bragg gratings. , 2017, , .		0
35	Optimal design of multi-DOF viscoelastic dynamic neutralizers for passive vibration control in rotordynamics. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	0
36	Building Structure with Pendulum Neutralizer Vibration Analysis Using FBGs Strain Sensors. , 2019, , .		0

#	Article	IF	Citations
37	Suppression of the Sommerfeld Effect in a Cantilever Beam Through a Viscoelastic Dynamic Neutralizer: An Experimental Study. , 2022, , 135-143.		0