

Philip Bonello

List of Publications by Year in descending order

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33
papers

481
citations

840776

11
h-index

713466

21
g-index

33
all docs

33
docs citations

33
times ranked

244
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration control using an adaptive tuned vibration absorber with a variable curvature stiffness element. <i>Smart Materials and Structures</i> , 2005, 14, 1055-1065.	3.5	59
2	A receptance harmonic balance technique for the computation of the vibration of a whole aero-engine model with nonlinear bearings. <i>Journal of Sound and Vibration</i> , 2009, 324, 221-242.	3.9	48
3	A novel method for the determination of the change in blade tip timing probe sensing position due to steady movements. <i>Mechanical Systems and Signal Processing</i> , 2019, 126, 686-710.	8.0	47
4	An impulsive receptance technique for the time domain computation of the vibration of a whole aero-engine model with nonlinear bearings. <i>Journal of Sound and Vibration</i> , 2008, 318, 592-605.	3.9	32
5	A Study of the Nonlinear Interaction Between an Eccentric Squeeze Film Damper and an Unbalanced Flexible Rotor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2004, 126, 855-866.	1.1	24
6	Designs for an adaptive tuned vibration absorber with variable shape stiffness element. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 3955-3976.	2.1	24
7	An equivalent unbalance identification method for the balancing of nonlinear squeeze-film damped rotordynamic systems. <i>Journal of Sound and Vibration</i> , 2016, 360, 53-73.	3.9	24
8	Improved identification of squeeze-film damper models for aeroengine vibration analysis. <i>Tribology International</i> , 2010, 43, 1639-1649.	5.9	23
9	The extraction of Campbell diagrams from the dynamical system representation of a foil-air bearing rotor model. <i>Mechanical Systems and Signal Processing</i> , 2019, 129, 502-530.	8.0	23
10	An experimentally validated modal model simulator for the assessment of different Blade Tip Timing algorithms. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106484.	8.0	21
11	Efficient Techniques for the Computation of the Nonlinear Dynamics of a Foil-Air Bearing Rotor System. , 2013, , .		13
12	The effects of air film pressure constraints and top foil detachment on the static equilibrium, stability and modal characteristics of a foil-air bearing rotor model. <i>Journal of Sound and Vibration</i> , 2020, 485, 115590.	3.9	12
13	Determination of Simultaneous Steady-State Movements Using Blade Tip Timing Data. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2020, 142, .	1.6	12
14	Experimental validation of FEM-computed stress to tip deflection ratios of aero-engine compressor blade vibration modes and quantification of associated uncertainties. <i>Mechanical Systems and Signal Processing</i> , 2022, 178, 109257.	8.0	12
15	Nonlinear and linearised analyses of a generic rotor on single-pad foil-air bearings using Galerkin Reduction with different applied air film conditions. <i>Journal of Sound and Vibration</i> , 2022, 525, 116774.	3.9	10
16	Computational Studies of the Unbalance Response of a Whole Aero-Engine Model With Squeeze-Film Bearings. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	9
17	A Computational Parametric Analysis of the Vibration of a Three-Spool Aero-Engine Under Multifrequency Unbalance Excitation. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011, 133, .	1.1	9
18	Improved non-invasive inverse problem method for the balancing of nonlinear squeeze-film damped rotordynamic systems. <i>Mechanical Systems and Signal Processing</i> , 2019, 117, 569-593.	8.0	9

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19	A comparison of modal analyses of foil-air bearing rotor systems using two alternative linearisation methods. <i>Mechanical Systems and Signal Processing</i> , 2022, 170, 108714.	8.0	9
20	Adaptive Tuned Vibration Absorbers: Design Principles, Concepts and Physical Implementation. , 0, , .		8
21	A Neural Network Identification Technique for a Foil-Air Bearing Under Variable Speed Conditions and Its Application to Unbalance Response Analysis. <i>Journal of Tribology</i> , 2017, 139, .	1.9	8
22	Development of a rotor test rig with a novel controllable preload foil-air bearing. <i>Precision Engineering</i> , 2022, 76, 340-359.	3.4	7
23	Empirical identification of the inverse model of a squeeze-film damper bearing using neural networks and its application to a nonlinear inverse problem. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 357-378.	2.6	6
24	The Determination of Steady-State Movements Using Blade Tip Timing Data. , 2018, , .		6
25	The efficient inclusion of rotation-induced inertia effects in a shaft-blisk assembly model using zero-speed modes. <i>Journal of Sound and Vibration</i> , 2020, 479, 115357.	3.9	6
26	An Investigation Into Two Alternative Approaches for the Identification of SFD Bearings for Aeroengine Analysis. , 2011, , .		4
27	Nonlinear Dynamic Analysis of a Turbocharger on Foil-Air Bearings With Focus on Stability and Self-Excited Vibration. , 2014, , .		4
28	Analytical and Experimental Investigation of a Curved Piezoelectric Energy Harvester. <i>Sensors</i> , 2022, 22, 2207.	3.8	4
29	A Computational Parametric Analysis of the Vibration of a Three-Spool Aero-Engine Under Multi-Frequency Unbalance Excitation. , 2010, , .		3
30	Unbalance Identification and Balancing of Nonlinear Rotodynamic Systems. , 2014, , .		3
31	A Neural Network Identification Technique for a Foil-Air Bearing and its Application to Unbalance Response Analysis. , 2015, , .		1
32	Improved Empirical Identification of the Inverse Model of a Squeeze-Film Damper Bearing Based on a Recurrent Neural Network. , 2018, , .		1
33	Effectiveness Testing of an Inverse Method for Balancing Nonlinear Rotodynamic Systems. , 2018, , .		0