# 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 | Nonlinear and linearised analyses of a generic rotor on single-pad foil-air bearings using Galerkin Reduction with different applied air film conditions. Journal of Sound and Vibration, 2022, 525, 116774. | 3.9 | 10 |
| 2 | A comparison of modal analyses of foil-air bearing rotor systems using two alternative linearisation methods. Mechanical Systems and Signal Processing, 2022, 170, 108714. | 8.0 | 9 |
| 3 | Analytical and Experimental Investigation of a Curved Piezoelectric Energy Harvester. Sensors, 2022, 22, 2207. | 3.8 | 4 |
| 4 | Development of a rotor test rig with a novel controllable preload foil-air bearing. Precision Engineering, 2022, 76, 340-359. | 3.4 | 7 |
| 5 | Experimental validation of FEM-computed stress to tip deflection ratios of aero-engine compressor blade vibration modes and quantification of associated uncertainties. Mechanical Systems and Signal Processing, 2022, 178, 109257. | 8.0 | 12 |
| 6 | An experimentally validated modal model simulator for the assessment of different Blade Tip Timing algorithms. Mechanical Systems and Signal Processing, 2020, 136, 106484. | 8.0 | 21 |
| 7 | 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. Journal of Sound and Vibration, 2020, 485, 115590. | 3.9 | 12 |
| 8 | The efficient inclusion of rotation-induced inertia effects in a shaft-blisk assembly model using zero-speed modes. Journal of Sound and Vibration, 2020, 479, 115357. | 3.9 | 6 |
| 9 | Determination of Simultaneous Steady-State Movements Using Blade Tip Timing Data. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, . | 1.6 | 12 |
| 10 | Improved non-invasive inverse problem method for the balancing of nonlinear squeeze-film damped rotordynamic systems. Mechanical Systems and Signal Processing, 2019, 117, 569-593. | 8.0 | 9 |
| 11 | The extraction of Campbell diagrams from the dynamical system representation of a foil-air bearing rotor model. Mechanical Systems and Signal Processing, 2019, 129, 502-530. | 8.0 | 23 |
| 12 | A novel method for the determination of the change in blade tip timing probe sensing position due to steady movements. Mechanical Systems and Signal Processing, 2019, 126, 686-710. | 8.0 | 47 |
| 13 | Empirical identification of the inverse model of a squeeze-film damper bearing using neural networks and its application to a nonlinear inverse problem. JVC/Journal of Vibration and Control, 2018, 24, 357-378. | 2.6 | 6 |
| 14 | Effectiveness Testing of an Inverse Method for Balancing Nonlinear Rotordynamic Systems. , 2018, , . | | 0 |
| 15 | Improved Empirical Identification of the Inverse Model of a Squeeze-Film Damper Bearing Based on a Recurrent Neural Network. , 2018, , . | | 1 |
| 16 | The Determination of Steady-State Movements Using Blade Tip Timing Data. , 2018, , . | | 6 |
| 17 | A Neural Network Identification Technique for a Foil-Air Bearing Under Variable Speed Conditions and Its Application to Unbalance Response Analysis. Journal of Tribology, 2017, 139, . | 1.9 | 8 |
| 18 | An equivalent unbalance identification method for the balancing of nonlinear squeeze-film damped rotordynamic systems. Journal of Sound and Vibration, 2016, 360, 53-73. | 3.9 | 24 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A Neural Network Identification Technique for a Foil-Air Bearing and its Application to Unbalance Response Analysis. , 2015, , . | | 1 |
| 20 | Nonlinear Dynamic Analysis of a Turbocharger on Foil-Air Bearings With Focus on Stability and Self-Excited Vibration. , 2014, , . | | 4 |
| 21 | Unbalance Identification and Balancing of Nonlinear Rotodynamic Systems. , 2014, , . | | 3 |
| 22 | Efficient Techniques for the Computation of the Nonlinear Dynamics of a Foil-Air Bearing Rotor System. , 2013, , . | | 13 |
| 23 | A Computational Parametric Analysis of the Vibration of a Three-Spool Aero-Engine Under Multifrequency Unbalance Excitation. Journal of Engineering for Gas Turbines and Power, 2011, 133, . | 1.1 | 9 |
| 24 | An Investigation Into Two Alternative Approaches for the Identification of SFD Bearings for Aeroengine Analysis. , 2011, , . | | 4 |
| 25 | A Computational Parametric Analysis of the Vibration of a Three-Spool Aero-Engine Under Multi-Frequency Unbalance Excitation. , 2010, , . | | 3 |
| 26 | Improved identification of squeeze-film damper models for aeroengine vibration analysis. Tribology International, 2010, 43, 1639-1649. | 5.9 | 23 |
| 27 | Computational Studies of the Unbalance Response of a Whole Aero-Engine Model With Squeeze-Film Bearings. Journal of Engineering for Gas Turbines and Power, 2010, 132, . | 1.1 | 9 |
| 28 | A receptance harmonic balance technique for the computation of the vibration of a whole aero-engine model with nonlinear bearings. Journal of Sound and Vibration, 2009, 324, 221-242. | 3.9 | 48 |
| 29 | An impulsive receptance technique for the time domain computation of the vibration of a whole aero-engine model with nonlinear bearings. Journal of Sound and Vibration, 2008, 318, 592-605. | 3.9 | 32 |
| 30 | Vibration control using an adaptive tuned vibration absorber with a variable curvature stiffness element. Smart Materials and Structures, 2005, 14, 1055-1065. | 3.5 | 59 |
| 31 | Designs for an adaptive tuned vibration absorber with variable shape stiffness element. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 3955-3976. | 2.1 | 24 |
| 32 | A Study of the Nonlinear Interaction Between an Eccentric Squeeze Film Damper and an Unbalanced Flexible Rotor. Journal of Engineering for Gas Turbines and Power, 2004, 126, 855-866. | 1.1 | 24 |
| 33 | Adaptive Tuned Vibration Absorbers: Design Principles, Concepts and Physical Implementation. , 0, , . | | 8 |