

SÃ©bastien Baguet

List of Publications by Year in descending order

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31
papers

972
citations

430442

18
h-index

642321

23
g-index

31
all docs

31
docs citations

31
times ranked

625
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotor to stator contacts in turbomachines. Review and application. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 401-420.	4.4	163
2	Nonlinear dynamics of a support-excited flexible rotor with hydrodynamic journal bearings. <i>Journal of Sound and Vibration</i> , 2014, 333, 2774-2799.	2.1	78
3	Computational and quasi-analytical models for non-linear vibrations of resonant MEMS and NEMS sensors. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 532-542.	1.4	72
4	Bifurcation-based micro-/nanoelectromechanical mass detection. <i>Nonlinear Dynamics</i> , 2015, 79, 647-662.	2.7	69
5	A comparison of stability computational methods for periodic solution of nonlinear problems with application to rotordynamics. <i>Nonlinear Dynamics</i> , 2013, 72, 671-682.	2.7	64
6	Bifurcation tracking by Harmonic Balance Method for performance tuning of nonlinear dynamical systems. <i>Mechanical Systems and Signal Processing</i> , 2017, 88, 445-461.	4.4	61
7	Quasi-periodic harmonic balance method for rubbing self-induced vibrations in rotor-stator dynamics. <i>Nonlinear Dynamics</i> , 2014, 78, 2501-2515.	2.7	58
8	Steady-state dynamic behavior of an on-board rotor under combined base motions. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 2254-2287.	1.5	51
9	Nonlinear couplings in a gear-shaft-bearing system. <i>Mechanism and Machine Theory</i> , 2010, 45, 1777-1796.	2.7	44
10	Nonlinear dynamics of micromechanical resonator arrays for mass sensing. <i>Nonlinear Dynamics</i> , 2019, 95, 1203-1220.	2.7	37
11	On the behaviour of the ANM continuation in the presence of bifurcations. <i>Communications in Numerical Methods in Engineering</i> , 2003, 19, 459-471.	1.3	34
12	Overcoming limitations of nanomechanical resonators with simultaneous resonances. <i>Applied Physics Letters</i> , 2015, 107, 073105.	1.5	33
13	Period doubling bifurcation analysis and isolated sub-harmonic resonances in an oscillator with asymmetric clearances. <i>Nonlinear Dynamics</i> , 2019, 98, 2939-2960.	2.7	33
14	Stability control of nonlinear micromechanical resonators under simultaneous primary and superharmonic resonances. <i>Applied Physics Letters</i> , 2011, 98, 193507.	1.5	32
15	Forced large amplitude periodic vibrations of non-linear Mathieu resonators for microgyroscope applications. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 1347-1355.	1.4	30
16	Pull-In Retarding in Nonlinear Nanoelectromechanical Resonators Under Superharmonic Excitation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2012, 7, .	0.7	24
17	Nonlinear phenomena in nanomechanical resonators: mechanical behaviors and physical limitations. <i>Mecanique Et Industries</i> , 2010, 11, 521-529.	0.2	20
18	Dissipated energy and boundary condition effects associated to dry friction on the dynamics of vibrating structures. <i>Mechanism and Machine Theory</i> , 2011, 46, 479-491.	2.7	19

#	ARTICLE	IF	CITATIONS
19	A multi-parametric recursive continuation method for nonlinear dynamical systems. Mechanical Systems and Signal Processing, 2019, 127, 276-289.	4.4	16
20	Numerical Tracking of Limit Points for Direct Parametric Analysis in Nonlinear Rotordynamics. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.0	11
21	Use and Limitations of the Harmonic Balance Method for Rub-Impact Phenomena in Rotor-Stator Dynamics. , 2012, , .		7
22	Stability of thin-shell structures and imperfection sensitivity analysis with the Asymptotic Numerical Method. Revue Europeenne Des Elements, 2002, 11, 493-509.	0.1	5
23	Real time sensing in the non linear regime of nems resonators. , 2016, , .		4
24	Mass sensing by symmetry breaking and localization of motion in an array of electrostatically coupled nonlinear MEMS resonators. International Journal of Non-Linear Mechanics, 2022, 140, 103903.	1.4	4
25	Hysteresis Suppression in Nonlinear Mathieu M/NEMS Resonators. , 2009, , .		1
26	Bifurcation Analysis of a Non-Linear On-Board Rotor-Bearing System. , 2014, , .		1
27	Neimark Sacker bifurcations and non-linear energy exchange in chains of non-linear oscillators. International Journal of Non-Linear Mechanics, 2022, 144, 104057.	1.4	1
28	Investigation on the Dynamics of an On-Board Rotor-Bearing System. , 2012, , .		0
29	Nonlinear dynamics of nanoelectromechanical cantilevers based on nanowire piezoresistive detection. MATEC Web of Conferences, 2012, 1, 04007.	0.1	0
30	Parametric Analysis of the Nonlinear Behavior of Rotating Structures. , 2015, , .		0
31	High Order Nonlinearities and Mixed Behavior in Micromechanical Resonators. Springer Proceedings in Physics, 2011, , 167-172.	0.1	0