

Rodrigo Tumolin Rocha

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Nonparametric Identification of a Nonlinear MEMS Resonator. , 2022, , 405-415.		1
2	Nonlinear mode saturation in a U-shaped micro-resonator. Scientific Reports, 2022, 12, .	1.6	4
3	Remarks on energy harvesting of nonlinear charge and voltage piezoelectric models in a two-degrees-of-freedom nonlinear portal frame model. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 4760-4767.	1.1	3
4	Dynamics and Control of Energy Harvesting from a Non-ideally Excited Portal Frame System with Fractional Damping. Mechanisms and Machine Science, 2021, , 383-395.	0.3	1
5	Dynamic Analysis and Synchronization for a System with Hyperchaotic Behavior. Brazilian Journal of Physics, 2021, 51, 1333-1345.	0.7	3
6	Numerical Simulations and Control of Offshore Energy Harvesting Using Piezoelectric Materials in a Portal Frame Structure. Shock and Vibration, 2021, 2021, 1-11.	0.3	5
7	Chaos control of an atomic force microscopy model in fractional-order. European Physical Journal: Special Topics, 2021, 230, 3643-3654.	1.2	8
8	Statics and Dynamics of V-Shaped Microbeams Under Axial Forces. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	2
9	Nonparametric identification of a micro-electromechanical resonator. Mechanical Systems and Signal Processing, 2021, 161, 107932.	4.4	3
10	Time Delayed Feedback Control Applied in an Atomic Force Microscopy (AFM) Model in Fractional-Order. Journal of Vibration Engineering and Technologies, 2020, 8, 327-335.	1.3	20
11	On suppression of chaotic motion of a nonlinear MEMS oscillator. Nonlinear Dynamics, 2020, 99, 537-557.	2.7	12
12	Dynamics and control of periodic and non-periodic behavior of Duffing vibrating system with fractional damping and excited by a non-ideal motor. Journal of the Franklin Institute, 2020, 357, 2067-2082.	1.9	19
13	Dynamics Characterization of a U-Shaped Micro-Resonator Portal Frame. Journal of Microelectromechanical Systems, 2020, 29, 1362-1371.	1.7	3
14	Numerical Exploratory Analysis of Dynamics and Control of an Atomic Force Microscopy in Tapping Mode with Fractional Order. Shock and Vibration, 2020, 2020, 1-18.	0.3	13
15	A Comparison of Time-Frequency Methods for Nonlinear Dynamics and Chaos Analysis in an Energy Harvesting Model. Brazilian Journal of Physics, 2020, 50, 235-244.	0.7	9
16	On the Positioning of a Piezoelectric Material in the Energy Harvesting From a Nonideally Excited Portal Frame. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	6
17	On a non-ideal magnetic levitation system: nonlinear dynamical behavior and energy harvesting analyses. Nonlinear Dynamics, 2019, 95, 3423-3438.	2.7	17
18	Offshore Energy Harvesting of a Marine Floating Pendulum Platform Model. Latin American Journal of Solids and Structures, 2019, 16, .	0.6	5

#	ARTICLE	IF	CITATIONS
19	On Positioning and Vibration Control Application to Robotic Manipulators with a Nonideal Load Carrying. <i>Shock and Vibration</i> , 2019, 2019, 1-14.	0.3	8
20	A Note on Anti-Roll Bar Effectiveness Full-Car Dynamics with Magnetorheological Damper Control. <i>International Review of Mechanical Engineering</i> , 2019, 13, 47.	0.1	3
21	An overview on the appearance of the Sommerfeld effect and saturation phenomenon in non-ideal vibrating systems (NIS) in macro and MEMS scales. <i>Nonlinear Dynamics</i> , 2018, 93, 19-40.	2.7	42
22	On nonlinear dynamics of a parametrically excited pendulum using both active control and passive rotational (MR) damper. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1587-1599.	1.5	25
23	Using passive control by a pendulum in a portal frame platform with piezoelectric energy harvesting. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3684-3697.	1.5	9
24	Jump Attenuation in a Non-Ideal System Using Shape Memory Element. <i>MATEC Web of Conferences</i> , 2018, 148, 03003.	0.1	8
25	Optimal Control for Robot Manipulators with Three-Degress-of-Freedom. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 135-149.	0.1	1
26	On an Optimal Control Applied in MEMS Oscillator with Chaotic Behavior including Fractional Order. <i>Complexity</i> , 2018, 2018, 1-12.	0.9	11
27	An analytical approximated solution and numerical simulations of a non-ideal system with saturation phenomenon. <i>Nonlinear Dynamics</i> , 2018, 94, 429-442.	2.7	10
28	Dynamical Analysis and Control of a Chaotic Microelectromechanical Resonator Model. <i>Shock and Vibration</i> , 2018, 2018, 1-10.	0.3	7
29	On vibration mitigation and energy harvesting of a non-ideal system with autoparametric vibration absorber system. <i>Meccanica</i> , 2018, 53, 3177-3188.	1.2	20
30	Nonlinear dynamics and SDRE control applied to a high-performance aircraft in a longitudinal flight considering atmospheric turbulence in flight. <i>Journal of Sound and Vibration</i> , 2018, 436, 273-285.	2.1	8
31	On a Time Series Analysis Generated by a Sensor of an Atomic Force Microscope (AFM). <i>International Review of Mechanical Engineering</i> , 2018, 12, 239.	0.1	0
32	Nonlinear piezoelectric vibration energy harvesting from a portal frame with two-to-one internal resonance. <i>Meccanica</i> , 2017, 52, 2583-2602.	1.2	34
33	On Mode Coupling Analysis and Stability Regions to Energy Harvesting in a Two-Degrees-of-Freedom Portal Frame Platform. , 2017, , .		1
34	On an Optimal Control Applied in Atomic Force Microscopy (AFM) Including Fractional-Order. , 2017, , .		2
35	Angular Positioning and Vibration Control of a Slewing Flexible Control by Applying Smart Materials and Sliding Modes Control. , 2017, , .		1
36	SDRE Control Applied to the Wheel Speed of a Compressed Air Engine with Crank-Connecting-Rod Mechanism. <i>Shock and Vibration</i> , 2017, 2017, 1-14.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Non-Ideal System With Quadratic Nonlinearities Containing a Two-to-One Internal Resonance. , 2016, , .		4
38	Position Control of a Manipulator Robotic Arm Considering Flexible Joints Driven by a DC Motor and a Controlled Torque by a MR-Brake. , 2016, , .		4
39	Using Saturation Phenomenon to Improve Energy Harvesting in a Portal Frame Platform with Passive Control by a Pendulum. Springer Proceedings in Mathematics and Statistics, 2016, , 319-329.	0.1	0
40	Dynamics behaviour of an elastic non-ideal (NIS) portal frame, including fractional nonlinearities. Journal of Physics: Conference Series, 2016, 721, 012004.	0.3	5
41	Comments on Energy Harvesting on a 2:1 Internal Resonance Portal Frame Support Structure, Using a Nonlinear-Energy Sink as a Passive Controller. International Review of Mechanical Engineering, 2016, 10, 147.	0.1	13
42	Proposal of a Nonlinear Piezoelectric Coupling Term to Energy Harvesting Interactions. Springer Proceedings in Physics, 2015, , 69-76.	0.1	0
43	Mode Saturation, Mode Coupling and Energy Harvesting From Ambient Vibration in a Portal Frame Structure. , 2014, , .		5
44	On Energy Transfer between Vibration Modes under Frequency-Varying Excitations for Energy Harvesting. Applied Mechanics and Materials, 0, 849, 65-75.	0.2	7