

Elvio Bonisoli

List of Publications by Year in descending order

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63
papers

740
citations

759233

12
h-index

580821

25
g-index

70
all docs

70
docs citations

70
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitsche's method for two and three dimensional NURBS patch coupling. Computational Mechanics, 2014, 53, 1163-1182.	4.0	179
2	An assessment of damping identification methods. Journal of Sound and Vibration, 2009, 323, 662-676.	3.9	47
3	Energy harvester for vehicle tires: Nonlinear dynamics and experimental outcomes. Journal of Intelligent Material Systems and Structures, 2012, 23, 3-13.	2.5	43
4	Proposal of a modal-geometrical-based master nodes selection criterion in modal analysis. Mechanical Systems and Signal Processing, 2009, 23, 606-620.	8.0	37
5	Dynamic Simulation of an Electromechanical Energy Scavenging Device. IEEE Transactions on Magnetics, 2010, 46, 2856-2859.	2.1	28
6	Energy harvesting using parametric resonant system due to time-varying damping. Mechanical Systems and Signal Processing, 2016, 79, 149-165.	8.0	27
7	Identification techniques applied to a passive elasto-magnetic suspension. Mechanical Systems and Signal Processing, 2007, 21, 1479-1488.	8.0	26
8	Energy harvesting using semi-active control. Journal of Sound and Vibration, 2013, 332, 6033-6043.	3.9	26
9	Electromechanical and Electronic Integrated Harvester for Shoes Application. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1921-1932.	5.8	26
10	IDENTIFICATION AND UP-DATING OVER THE Z24 BENCHMARK. Mechanical Systems and Signal Processing, 2003, 17, 153-161.	8.0	24
11	Passive elasto-magnetic suspensions: nonlinear models and experimental outcomes. Mechanics Research Communications, 2007, 34, 385-394.	1.8	19
12	The Design of a New Manual Wheelchair for Sport. Machines, 2019, 7, 31.	2.2	17
13	Optimization of magneto-mechanical energy scavenger for automotive tire. Journal of Intelligent Material Systems and Structures, 2012, 23, 2055-2064.	2.5	13
14	Open questions on Product Lifecycle Management (PLM) with CAD /CAE integration. International Journal on Interactive Design and Manufacturing, 2014, 8, 91-107.	2.2	13
15	Magnetic Loss Analysis in Coaxial Magnetic Gears. Electronics (Switzerland), 2019, 8, 1320.	3.1	12
16	Numerical-experimental comparison of a parametric test-rig for crossing and veering phenomena. Mechanical Systems and Signal Processing, 2019, 128, 369-388.	8.0	12
17	Block-oriented Models of Torque Gap Filler Devices for AMT Transmissions. , 2008, , ,		11
18	Testing and simulation of the three point bending anisotropic behaviour of hazelnut shells. Biosystems Engineering, 2015, 129, 134-141.	4.3	11

#	ARTICLE	IF	CITATIONS
19	Structural Dynamics with Coincident Eigenvalues: Modelling and Testing. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 325-337.	0.5	11
20	Passive effects of rare-earth permanent magnets on flexible conductive structures. Mechanics Research Communications, 2006, 33, 302-319.	1.8	10
21	Study of the interference contribution on the performance of an adhesive bonded press-fitted cylindrical joint. International Journal of Adhesion and Adhesives, 2014, 53, 89-96.	2.9	10
22	Interference fit estimation through stress-stiffening effect on dynamics. Mechanical Systems and Signal Processing, 2021, 160, 107919.	8.0	10
23	Direct identification of nonlinear damping: application to a magnetic damped system. Mechanical Systems and Signal Processing, 2021, 146, 107038.	8.0	9
24	Detection of critical mode-shapes in flexible multibody system dynamics: The case study of a racing motorcycle. Mechanical Systems and Signal Processing, 2022, 180, 109370.	8.0	9
25	Experimental direct spatial damping identification by the Stabilised Layers Method. Journal of Sound and Vibration, 2018, 437, 325-339.	3.9	8
26	Crossing and Veering Phenomena in Crank Mechanism Dynamics. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 175-187.	0.5	8
27	Multi-objective optimisation of a magnetic gear for powertrain applications. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S25-S34.	0.6	7
28	Nonlinear Dynamics of an Electro-Mechanical Energy Scavenger. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 339-349.	0.5	7
29	Prototyping of manual wheelchair with alternative propulsion system. Disability and Rehabilitation: Assistive Technology, 2020, 15, 945-951.	2.2	6
30	Experimental feedback linearisation of a non-smooth nonlinear system by the method of receptances. Mathematics and Mechanics of Solids, 2019, 24, 465-482.	2.4	5
31	Strain proportional damping in Bernoulli-Euler beam theory. Mechanical Systems and Signal Processing, 2020, 145, 106907.	8.0	5
32	Dynamic Balance of the Head in a Flexible Legged Robot for Efficient Biped Locomotion. Applied Sciences (Switzerland), 2021, 11, 2945.	2.5	5
33	Integrated CAD/CAE Functional Design for Engine Components and Assembly. , 0, , .		4
34	Image decomposition and uncertainty quantification for the assessment of manufacturing tolerances in stress analysis. Journal of Strain Analysis for Engineering Design, 2014, 49, 618-631.	1.8	4
35	Virtual prototyping through multisoftware integration for energy harvester design. Journal of Intelligent Material Systems and Structures, 2014, 25, 1705-1714.	2.5	4
36	Nonlinear and linearised behaviour of the Levitron®. Meccanica, 2016, 51, 763-784.	2.0	4

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37	An Unified Framework for Studying Gear Dynamics Through Model Reduction Techniques. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 233-242.	0.5	3
38	<title>Dynamics of suspensions with rare-earth permanent magnets</title>. , 2003, 5052, 106.		2
39	Block-oriented Models for Transient HVAC Simulations. , 0, , .		2
40	Comparison between Dynamic Condensation Techniques in Automotive Application. , 2006, , .		2
41	A Modal-Geometrical Selection Criterion in Dynamic Condensation Techniques. , 2006, , 349.		2
42	Detection of Stress-Stiffening Effect on Automotive Components. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 335-343.	0.5	2
43	Investigation of Crossing and Veering Phenomena in an Isogeometric Analysis Framework. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 361-376.	0.5	2
44	Parametric, asymmetric and stochastic-based 3D CAD model of Tonda Gentile Trilobata hazelnut variety. Biosystems Engineering, 2016, 144, 72-84.	4.3	2
45	Experimental-Numerical Comparison of Contact Nonlinear Dynamics Through Multi-level Linear Mode Shapes. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 263-271.	0.5	2
46	A Theoretical Model of Oscillations of Paramagnetic or Diamagnetic Structures Subject to Passive Magnetic Elements. , 2001, , .		2
47	Handwheelchair.q: Innovative Manual Wheelchair for Sport. Mechanisms and Machine Science, 2019, , 370-378.	0.5	2
48	Handwheelchair.q: New Prototype of Manual Wheelchair for Everyday Life. Mechanisms and Machine Science, 2021, , 111-119.	0.5	2
49	<title>Comparison between the theoretical model and experimental outcomes of oscillations of para- and diamagnetic structures subject to passive magnetic elements</title>. , 2002, , .		1
50	Friction inside Wheel Hub Bearings: Evaluation through Analytical Models and Experimental Methodologies. , 2007, , .		1
51	Multi-body Versus Block-Oriented Approach in Suspension Dynamics of a Military Tracked Tank. , 0, , .		1
52	Gearbox Design by means of Genetic Algorithm and CAD/CAE Methodologies. , 2010, , .		1
53	Electromechanical Energy Scavenger for Automotive Tires. , 2011, , .		1
54	Multi-physics optimisation of an energy harvester device for automotive application. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 846-855.	0.9	1

#	ARTICLE	IF	CITATIONS
55	Modelling of nonlinear magnetic damping in vibrating coupled structures. , 2019, , .		1
56	Robust Optimization of Magneto-Mechanical Energy Harvesters for Shoes. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 571-576.	0.5	1
57	A Modal-Geometrical Selection Criterion for Master Nodes: Numerical and Experimental Testing. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 281-295.	0.5	1
58	From Preliminary Design to Prototyping and Validation of Energy Harvester for Shoes. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 1-10.	0.5	1
59	Numerical Methodology for Evaluating Side Impact Effects in Rally Car. , 0, , .		0
60	A Modal-Geometrical Selection Criterion for Master Nodes Applied to Engine Components. , 2011, , .		0
61	Multi-physics optimisation of energy harvesters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1392-1403.	0.9	0
62	Inverse Eigensensitivity Approach in Model Updating of Avionic Components. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 149-165.	0.5	0
63	Energy Harvesting Perspectives from Parametric Resonant Systems. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 223-232.	0.5	0