

Alessandro Cammarata

List of Publications by Year in descending order

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44
docs citations

44
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface reduction in flexible multibody systems using the Floating Frame of Reference Formulation. <i>Journal of Sound and Vibration</i> , 2022, 523, 116720.	3.9	12
2	Dynamic Model of a Conjugate-Surface Flexure Hinge Considering Impacts between Cylinders. <i>Micromachines</i> , 2022, 13, 957.	2.9	2
3	Global modes for the reduction of flexible multibody systems. <i>Multibody System Dynamics</i> , 2021, 53, 59-83.	2.7	6
4	A system-based reduction method for spatial deformable multibody systems using global flexible modes. <i>Journal of Sound and Vibration</i> , 2021, 504, 116118.	3.9	4
5	Dynamic assessment of the risk of airborne viral infection. <i>Indoor Air</i> , 2021, 31, 1759-1775.	4.3	12
6	Global flexible modes for the model reduction of planar mechanisms using the finite-element floating frame of reference formulation. <i>Journal of Sound and Vibration</i> , 2020, 489, 115668.	3.9	9
7	Full and reduced models for the elastodynamics of fully flexible parallel robots. <i>Mechanism and Machine Theory</i> , 2020, 151, 103895.	4.5	15
8	On the use of component mode synthesis methods for the model reduction of flexible multibody systems within the floating frame of reference formulation. <i>Mechanical Systems and Signal Processing</i> , 2020, 142, 106745.	8.0	30
9	Design of a Large Deployable Reflector Opening System. <i>Machines</i> , 2020, 8, 7.	2.2	4
10	Extension of the Iterative Improved Reduced System Technique to Flexible Mechanisms. <i>Computational Methods in Applied Sciences (Springer)</i> , 2020, , 255-263.	0.3	0
11	An extended Craig-Bampton method for the modal analysis of mechanisms. <i>Mechanisms and Machine Science</i> , 2019, , 3329-3338.	0.5	0
12	Static condensation method for the reduced dynamic modeling of mechanisms and structures. <i>Archive of Applied Mechanics</i> , 2019, 89, 2033-2051.	2.2	11
13	Tie-System Calibration for the Experimental Setup of Large Deployable Reflectors. <i>Machines</i> , 2019, 7, 23.	2.2	3
14	An optimized form-finding method of an asymmetric large deployable reflector. <i>Engineering Structures</i> , 2019, 181, 27-34.	5.3	35
15	Alternative elliptic integral solution to the beam deflection equations for the design of compliant mechanisms. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 499-505.	2.2	20
16	A Two-Step Algorithm for the Dynamic Reduction of Flexible Mechanisms. <i>Mechanisms and Machine Science</i> , 2019, , 25-32.	0.5	6
17	Redesign and multibody simulation of a motorcycle rear suspension with eccentric mechanism. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 517-524.	2.2	17
18	Design and development of a towfish to monitor marine pollution. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2018, 3, 1.	1.3	17

#	ARTICLE	IF	CITATIONS
19	A novel method to determine position and orientation errors in clearance-affected overconstrained mechanisms. Mechanism and Machine Theory, 2017, 118, 247-264.	4.5	50
20	An integrated approach to design an innovative motorcycle rear suspension with eccentric mechanism. Lecture Notes in Mechanical Engineering, 2017, , 609-619.	0.4	2
21	Closed-form solutions for the inverse kinematics of the Agile Eye with constraint errors on the revolute joint axes. , 2016, , .		10
22	Modified chain algorithm to study planar compliant mechanisms. International Journal on Interactive Design and Manufacturing, 2016, 10, 191-201.	2.2	14
23	Dynamic stiffness model of spherical parallel robots. Journal of Sound and Vibration, 2016, 384, 312-324.	3.9	28
24	Unified formulation for the stiffness analysis of spatial mechanisms. Mechanism and Machine Theory, 2016, 105, 272-284.	4.5	49
25	Parametric Study for the Steady-State Equilibrium of a Towfish. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 231-240.	3.4	4
26	Dynamics of a high-performance motorcycle by an advanced multibody/control co-simulation. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2016, 230, 207-221.	0.8	12
27	Optimized design of a large-workspace 2-DOF parallel robot for solar tracking systems. Mechanism and Machine Theory, 2015, 83, 175-186.	4.5	64
28	Parametric study for the steady-state equilibrium of a Towfish. , 2014, , .		0
29	Elastodynamic optimization of a 3T1R parallel manipulator. Mechanism and Machine Theory, 2014, 73, 184-196.	4.5	36
30	Design of an Underwater Towfish Using Design by Rule and Design by Analysis. , 2014, , .		3
31	An Algorithm to Study the Elastodynamics of Parallel Kinematic Machines With Lower Kinematic Pairs. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	28
32	Coupled fluid-dynamical and structural analysis of a mono-axial mems accelerometer. International Journal of Multiphysics, 2013, 7, 115-124.	0.1	1
33	Symbolic Dynamic Formulation of a Rolling Robot with Spherical Wheels Moving on Smooth Surfaces. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 889-894.	0.4	2
34	Tripod stiffening using clamping plates with no increase of moving mass. Meccanica, 2012, 47, 355-367.	2.0	1
35	Load movement control system for rollover risk reduction of tanker trucks. International Journal of Heavy Vehicle Systems, 2011, 18, 303.	0.2	0
36	Kinetostatic and Inertial Conditioning of the McGill SchÄ¶nflies-Motion Generator. Advances in Mechanical Engineering, 2010, 2, 186203.	1.6	18

#	ARTICLE	IF	CITATIONS
37	Analysis and Design of a Spherical Micromechanism With Flexure Hinges. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	24
38	The dynamics of parallel Schönlies motion generators: The case of a two-limb system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2009, 223, 29-52.	1.0	9
39	Kinematics and Dynamics of a 3-CRU Spherical Parallel Robot. , 2007, , .		9
40	Dynamics of a Two-DOF Parallel Pointing Mechanism. , 2005, , 1051.		0
41	On the Dynamic Isotropy of Mechanisms With Two Degrees of Freedom. , 2005, , 1059.		0
42	On the Stiffness Analysis and Elastodynamics of Parallel Kinematic Machines. , 0, , .		6