

J. C. P. Claro

List of Publications by Year in descending order

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47
papers

1,863
citations

471061

17
h-index

642321

23
g-index

48
all docs

48
docs citations

48
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Computational Biomechanics of the Intervertebral Disc. Lecture Notes in Computational Vision and Biomechanics, 2020, , 223-240.	0.5	0
2	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. Multibody System Dynamics, 2019, 45, 223-244.	1.7	110
3	Finite element analysis of stent expansion: Influence of stent geometry on performance parameters. , 2017, , .		6
4	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. Nonlinear Dynamics, 2016, 86, 1407-1443.	2.7	292
5	Comparison between the dynamic and initial creep response of porcine and human lumbar intervertebral discs. , 2015, , .		1
6	Geometric sensitivity analysis of a lumbar motion segment FE model. , 2015, , .		0
7	Simplified multibody model for dynamic loading analysis of the lumbar human spine. , 2015, , .		0
8	Optimization of a multibody system of the human lumbar spine. , 2015, , .		0
9	Biomechanical Experimental Data Curation: An Example for Main Lumbar Spine Ligaments Characterization for a MBS Spine Model. Mechanisms and Machine Science, 2015, , 435-443.	0.3	0
10	The intradiscal failure pressure on porcine lumbar intervertebral discs: an experimental approach. Mechanical Sciences, 2015, 6, 255-263.	0.5	3
11	An Advanced 3D Multi-body System Model for the Human Lumbar Spine. Mechanisms and Machine Science, 2015, , 405-411.	0.3	0
12	Long-Term Creep Behavior of the Intervertebral Disk: Comparison between Bioreactor Data and Numerical Results. Frontiers in Bioengineering and Biotechnology, 2014, 2, 56.	2.0	23
13	The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings. Tribology International, 2014, 72, 65-82.	3.0	33
14	3D reconstruction of a spinal motion segment from 2D medical images: Objective quantification of the geometric accuracy of the FE mesh generation procedure. , 2013, , .		4
15	Development of a biomechanical spine model for dynamic analysis. , 2012, , .		4
16	Experimental comparison of the performance of a journal bearing with a single and a twin axial groove configuration. Tribology International, 2012, 54, 1-8.	3.0	55
17	Numerical and experimental investigation on multibody systems with revolute clearance joints. Nonlinear Dynamics, 2011, 65, 383-398.	2.7	213
18	An experimental study of the influence of loading direction on the thermohydrodynamic behaviour of twin axial groove journal bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2011, 225, 245-254.	1.0	21

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19	The role of lubricant feed temperature on the performance of twin groove journal bearings: an experimental study. <i>International Journal of Surface Science and Engineering</i> , 2011, 5, 286.	0.4	10
20	Development of a planar multibody model of the human knee joint. <i>Nonlinear Dynamics</i> , 2010, 60, 459-478.	2.7	78
21	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers. , 2009, , .		2
22	Lubricated revolute joints in rigid multibody systems. <i>Nonlinear Dynamics</i> , 2009, 56, 277-295.	2.7	110
23	Translational Joints With Clearance in Rigid Multibody Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008, 3, .	0.7	79
24	Contact-Impact Force Models for Mechanical Systems. , 2008, , 47-66.		8
25	Spatial Joints with Clearance: Dry Contact Models. , 2008, , 133-169.		4
26	Multibody Systems Formulation. , 2008, , 23-45.		0
27	Planar Joints with Clearance: Dry Contact Models. , 2008, , 67-100.		1
28	Lubricated Joints for Mechanical Systems. , 2008, , 101-131.		0
29	Dynamic behaviour of planar rigid multi-body systems including revolute joints with clearance. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2007, 221, 161-174.	0.5	36
30	A Systematic and General Approach to Kinematic Position Errors Due to Manufacturing and Assemble Tolerances. , 2007, , 43.		2
31	Modeling Expected Wear in Revolute Joints With Clearance in Multibody Mechanical Systems. , 2007, , 357.		0
32	Study of the Influence of the Revolute Joint Model on the Dynamic Behavior of Multibody Mechanical Systems: Modeling and Simulation. , 2007, , .		1
33	A study on dynamics of mechanical systems including joints with clearance and lubrication. <i>Mechanism and Machine Theory</i> , 2006, 41, 247-261.	2.7	249
34	Dynamics of Multibody Systems With Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 240-247.	0.7	105
35	Spatial revolute joints with clearances for dynamic analysis of multi-body systems. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2006, 220, 257-271.	0.5	25
36	Influence of the contactâ€™impact force model on the dynamic response of multi-body systems. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2006, 220, 21-34.	0.5	64

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37	Modelling lubricated revolute joints in multibody mechanical systems. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2004, 218, 183-190.	0.5	11
38	Dynamic Analysis for Planar Multibody Mechanical Systems with Lubricated Joints. Multibody System Dynamics, 2004, 12, 47-74.	1.7	195
39	Temperature, flow, and eccentricity measurements in a journal bearing with a single axial groove at 90° to the load line. Lubrication Science, 2003, 15, 147-161.	0.9	8
40	An analysis of the influence of oil supply conditions on the thermohydrodynamic performance of a single-groove journal bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2003, 217, 133-144.	1.0	43
41	Modeling Lubricated Revolute Clearance Joints in Multibody Mechanical Systems. , 2003, , .		0
42	Dynamic Behavior of a Revolute Clearance Joint in Multibody Mechanical Systems. , 2003, , .		0
43	Comparative Analysis of Fatigue Failures in Rolling Contacts Lubricated with a Grease and a Base Oil. Key Engineering Materials, 2002, 230-232, 126-129.	0.4	0
44	Title is missing!. Meccanica, 2001, 36, 701-708.	1.2	0
45	An Experimental Investigation of the Effect of Groove Location and Supply Pressure on the THD Performance of a Steadily Loaded Journal Bearing. Journal of Tribology, 2000, 122, 227-232.	1.0	49
46	Analysis of Hydrodynamic Journal Bearings Considering Lubricant Supply Conditions. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1993, 207, 93-101.	1.1	12
47	A Novel Methodology to Assess the Relaxation Rate of the Intervertebral Disc by Increments on Intradiscal Pressure. Applied Mechanics and Materials, 0, 664, 379-383.	0.2	5