

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	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. <i>Nonlinear Dynamics</i> , 2016, 86, 1407-1443.	2.7	292
2	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
3	Numerical and experimental investigation on multibody systems with revolute clearance joints. <i>Nonlinear Dynamics</i> , 2011, 65, 383-398.	2.7	213
4	Dynamic Analysis for Planar Multibody Mechanical Systems with Lubricated Joints. <i>Multibody System Dynamics</i> , 2004, 12, 47-74.	1.7	195
5	Lubricated revolute joints in rigid multibody systems. <i>Nonlinear Dynamics</i> , 2009, 56, 277-295.	2.7	110
6	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. <i>Multibody System Dynamics</i> , 2019, 45, 223-244.	1.7	110
7	Dynamics of Multibody Systems With Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 240-247.	0.7	105
8	Translational Joints With Clearance in Rigid Multibody Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008, 3, .	0.7	79
9	Development of a planar multibody model of the human knee joint. <i>Nonlinear Dynamics</i> , 2010, 60, 459-478.	2.7	78
10	Influence of the contact 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
11	Experimental comparison of the performance of a journal bearing with a single and a twin axial groove configuration. <i>Tribology International</i> , 2012, 54, 1-8.	3.0	55
12	An Experimental Investigation of the Effect of Groove Location and Supply Pressure on the THD Performance of a Steadily Loaded Journal Bearing. <i>Journal of Tribology</i> , 2000, 122, 227-232.	1.0	49
13	An analysis of the influence of oil supply conditions on the thermohydrodynamic performance of a single-groove journal bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2003, 217, 133-144.	1.0	43
14	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
15	The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings. <i>Tribology International</i> , 2014, 72, 65-82.	3.0	33
16	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
17	Long-Term Creep Behavior of the Intervertebral Disk: Comparison between Bioreactor Data and Numerical Results. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 56.	2.0	23
18	An experimental study of the influence of loading direction on the thermohydrodynamic behaviour of twin axial groove journal bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2011, 225, 245-254.	1.0	21

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19	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
20	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
21	The role of lubricant feed temperature on the performance of twin groove journal bearings: an experimental study. International Journal of Surface Science and Engineering, 2011, 5, 286.	0.4	10
22	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
23	Contact-Impact Force Models for Mechanical Systems. , 2008, , 47-66.		8
24	Finite element analysis of stent expansion: Influence of stent geometry on performance parameters. , 2017, , .		6
25	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
26	Development of a biomechanical spine model for dynamic analysis. , 2012, , .		4
27	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
28	Spatial Joints with Clearance: Dry Contact Models. , 2008, , 133-169.		4
29	The intradiscal failure pressure on porcine lumbar intervertebral discs: an experimental approach. Mechanical Sciences, 2015, 6, 255-263.	0.5	3
30	A Systematic and General Approach to Kinematic Position Errors Due to Manufacturing and Assemble Tolerances. , 2007, , 43.		2
31	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers. , 2009, , .		2
32	Comparison between the dynamic and initial creep response of porcine and human lumbar intervertebral discs. , 2015, , .		1
33	Study of the Influence of the Revolute Joint Model on the Dynamic Behavior of Multibody Mechanical Systems: Modeling and Simulation. , 2007, , .		1
34	Planar Joints with Clearance: Dry Contact Models. , 2008, , 67-100.		1
35	Title is missing!. Meccanica, 2001, 36, 701-708.	1.2	0
36	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

#	ARTICLE	IF	CITATIONS
37	Modeling Expected Wear in Revolute Joints With Clearance in Multibody Mechanical Systems. , 2007, , 357.		0
38	Geometric sensitivity analysis of a lumbar motion segment FE model. , 2015, , .		0
39	Simplified multibody model for dynamic loading analysis of the lumbar human spine. , 2015, , .		0
40	Optimization of a multibody system of the human lumbar spine. , 2015, , .		0
41	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
42	Modeling Lubricated Revolute Clearance Joints in Multibody Mechanical Systems. , 2003, , .		0
43	Dynamic Behavior of a Revolute Clearance Joint in Multibody Mechanical Systems. , 2003, , .		0
44	An Advanced 3D Multi-body System Model for the Human Lumbar Spine. Mechanisms and Machine Science, 2015, , 405-411.	0.3	0
45	On the Computational Biomechanics of the Intervertebral Disc. Lecture Notes in Computational Vision and Biomechanics, 2020, , 223-240.	0.5	0
46	Multibody Systems Formulation. , 2008, , 23-45.		0
47	Lubricated Joints for Mechanical Systems. , 2008, , 101-131.		0