

# J. C. P. Claro

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41  
papers

1,464  
citations

17  
h-index

38  
g-index

48  
ext. papers

1,680  
ext. citations

2.1  
avg, IF

4.48  
L-index

#	Paper	IF	Citations
41	On the Computational Biomechanics of the Intervertebral Disc. <i>Lecture Notes in Computational Vision and Biomechanics</i> , <b>2020</b> , 223-240	0.3	
40	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. <i>Multibody System Dynamics</i> , <b>2019</b> , 45, 223-244	2.8	64
39	Finite element analysis of stent expansion: Influence of stent geometry on performance parameters <b>2017</b> ,		4
38	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 1407-1443	5	188
37	Biomechanical Experimental Data Curation: An Example for Main Lumbar Spine Ligaments Characterization for a MBS Spine Model. <i>Mechanisms and Machine Science</i> , <b>2015</b> , 435-443	0.3	
36	Comparison between the dynamic and initial creep response of porcine and human lumbar intervertebral discs <b>2015</b> ,		1
35	The intradiscal failure pressure on porcine lumbar intervertebral discs: an experimental approach. <i>Mechanical Sciences</i> , <b>2015</b> , 6, 255-263	1.3	2
34	An Advanced 3D Multi-body System Model for the Human Lumbar Spine. <i>Mechanisms and Machine Science</i> , <b>2015</b> , 405-411	0.3	
33	The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings. <i>Tribology International</i> , <b>2014</b> , 72, 65-82	4.9	25
32	Long-Term Creep Behavior of the Intervertebral Disk: Comparison between Bioreactor Data and Numerical Results. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2014</b> , 2, 56	5.8	18
31	A Novel Methodology to Assess the Relaxation Rate of the Intervertebral Disc by Increments on Intradiscal Pressure. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 664, 379-383	0.3	4
30	3D reconstruction of a spinal motion segment from 2D medical images: Objective quantification of the geometric accuracy of the FE mesh generation procedure <b>2013</b> ,		3
29	Development of a biomechanical spine model for dynamic analysis <b>2012</b> ,		4
28	Experimental comparison of the performance of a journal bearing with a single and a twin axial groove configuration. <i>Tribology International</i> , <b>2012</b> , 54, 1-8	4.9	46
27	Numerical and experimental investigation on multibody systems with revolute clearance joints. <i>Nonlinear Dynamics</i> , <b>2011</b> , 65, 383-398	5	178
26	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> , <b>2011</b> , 225, 245-254	1.4	15
25	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> , <b>2011</b> , 5, 286	1	9

24	Development of a planar multibody model of the human knee joint. <i>Nonlinear Dynamics</i> , <b>2010</b> , 60, 459-478	62
23	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers <b>2009</b> ,	2
22	Lubricated revolute joints in rigid multibody systems. <i>Nonlinear Dynamics</i> , <b>2009</b> , 56, 277-295	5 94
21	Translational Joints With Clearance in Rigid Multibody Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2008</b> , 3,	1.4 69
20	Multibody Systems Formulation <b>2008</b> , 23-45	
19	Planar Joints with Clearance: Dry Contact Models <b>2008</b> , 67-100	0
18	Lubricated Joints for Mechanical Systems <b>2008</b> , 101-131	
17	Contact-Impact Force Models for Mechanical Systems <b>2008</b> , 47-66	8
16	Spatial Joints with Clearance: Dry Contact Models <b>2008</b> , 133-169	4
15	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> , <b>2007</b> , 221, 161-174	0.9 29
14	A Systematic and General Approach to Kinematic Position Errors Due to Manufacturing and Assemble Tolerances <b>2007</b> , 43	2
13	Modeling Expected Wear in Revolute Joints With Clearance in Multibody Mechanical Systems <b>2007</b> , 357	
12	A study on dynamics of mechanical systems including joints with clearance and lubrication. <i>Mechanism and Machine Theory</i> , <b>2006</b> , 41, 247-261	4 206
11	Dynamics of Multibody Systems With Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2006</b> , 1, 240-247	1.4 86
10	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> , <b>2006</b> , 220, 257-271	0.9 19
9	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> , <b>2006</b> , 220, 21-34	0.9 53
8	Modelling lubricated revolute joints in multibody mechanical systems. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , <b>2004</b> , 218, 183-190	0.9 11
7	Dynamic Analysis for Planar Multibody Mechanical Systems with Lubricated Joints. <i>Multibody System Dynamics</i> , <b>2004</b> , 12, 47-74	2.8 160

6	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> , <b>2003</b> , 217, 133-144	1.4	37
5	Temperature, flow, and eccentricity measurements in a journal bearing with a single axial groove at 90° to the load line. <i>Lubrication Science</i> , <b>2003</b> , 15, 147-161	1.3	8
4	Comparative Analysis of Fatigue Failures in Rolling Contacts Lubricated with a Grease and a Base Oil. <i>Key Engineering Materials</i> , <b>2002</b> , 230-232, 126-129	0.4	
3	Experimental Study of the Influence of Changes in Load Direction on the Performance of a Crown Bearing. <i>Meccanica</i> , <b>2001</b> , 36, 701-708	2.1	
2	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> , <b>2000</b> , 122, 227-232	1.8	40
1	Analysis of Hydrodynamic Journal Bearings Considering Lubricant Supply Conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>1993</b> , 207, 93-101	1.3	11