J. C. P. Claro

List of Publications by Citations

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	A study on dynamics of mechanical systems including joints with clearance and lubrication. *Mechanism and Machine Theory*, **2006**, 41, 247-261	4	206
40	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. *Nonlinear Dynamics*, **2016**, 86, 1407-1443	5	188
39	Numerical and experimental investigation on multibody systems with revolute clearance joints. *Nonlinear Dynamics*, **2011**, 65, 383-398	5	178
38	Dynamic Analysis for Planar Multibody Mechanical Systems with Lubricated Joints. *Multibody System Dynamics*, **2004**, 12, 47-74	2.8	160
37	Lubricated revolute joints in rigid multibody systems. *Nonlinear Dynamics*, **2009**, 56, 277-295	5	94
36	Dynamics of Multibody Systems With Spherical Clearance Joints. *Journal of Computational and Nonlinear Dynamics*, **2006**, 1, 240-247	1.4	86
35	Translational Joints With Clearance in Rigid Multibody Systems. *Journal of Computational and Nonlinear Dynamics*, **2008**, 3,	1.4	69
34	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. *Multibody System Dynamics*, **2019**, 45, 223-244	2.8	64
33	Development of a planar multibody model of the human knee joint. *Nonlinear Dynamics*, **2010**, 60, 459-478	5	62
32	Influence of the contact-impact force model on the dynamic response of multi-body systems. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2006**, 220, 21-34	0.9	53
31	Experimental comparison of the performance of a journal bearing with a single and a twin axial groove configuration. *Tribology International*, **2012**, 54, 1-8	4.9	46
30	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	1.8	40
29	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	1.4	37
28	Dynamic behaviour of planar rigid multi-body systems including revolute joints with clearance. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2007**, 221, 161-174	0.9	29
27	The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings. *Tribology International*, **2014**, 72, 65-82	4.9	25
26	Spatial revolute joints with clearances for dynamic analysis of multi-body systems. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2006**, 220, 257-271	0.9	19
25	Long-Term Creep Behavior of the Intervertebral Disk: Comparison between Bioreactor Data and Numerical Results. *Frontiers in Bioengineering and Biotechnology*, **2014**, 2, 56	5.8	18

24	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	1.4	15
23	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	0.9	11
22	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	1.3	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	1	9
20	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	1.3	8
19	Contact-Impact Force Models for Mechanical Systems **2008**, 47-66		8
18	Finite element analysis of stent expansion: Influence of stent geometry on performance parameters **2017**,		4
17	A Novel Methodology to Assess the Relaxation Rate of the Intervertebral Disc by Increments on Intradiscal Pressure. *Applied Mechanics and Materials*, **2014**, 664, 379-383	0.3	4
16	Development of a biomechanical spine model for dynamic analysis **2012**,		4
15	Spatial Joints with Clearance: Dry Contact Models **2008**, 133-169		4
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**,		3
13	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers **2009**,		2
12	A Systematic and General Approach to Kinematic Position Errors Due to Manufacturing and Assemble Tolerances **2007**, 43		2
11	The intradiscal failure pressure on porcine lumbar intervertebral discs: an experimental approach. *Mechanical Sciences*, **2015**, 6, 255-263	1.3	2
10	Comparison between the dynamic and initial creep response of porcine and human lumbar intervertebral discs **2015**,		1
9	Planar Joints with Clearance: Dry Contact Models **2008**, 67-100		0
8	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	
7	Modeling Expected Wear in Revolute Joints With Clearance in Multibody Mechanical Systems **2007**, 357		

6	Experimental Study of the Influence of Changes in Load Direction on the Performance of a Crown Bearing. *Meccanica*, **2001**, 36, 701-708	2.1
5	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
4	On the Computational Biomechanics of the Intervertebral Disc. *Lecture Notes in Computational Vision and Biomechanics*, **2020**, 223-240	0.3
3	Multibody Systems Formulation **2008**, 23-45	
2	Lubricated Joints for Mechanical Systems **2008**, 101-131	
1	An Advanced 3D Multi-body System Model for the Human Lumbar Spine. *Mechanisms and Machine Science*, **2015**, 405-411	0.3