

Paulo Flores

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.

171
papers

5,394
citations

39
h-index

72
g-index

202
ext. papers

6,349
ext. citations

2.1
avg, IF

6.31
L-index

#	Paper	IF	Citations
171	A Recursive Algorithm for the Forward Kinematic Analysis of Robotic Systems Using Euler Angles. <i>Robotics</i> , 2022 , 11, 15	2.8	3
170	Railway Dynamics with Curved Contact Patch. <i>Mechanisms and Machine Science</i> , 2022 , 105-113	0.3	
169	Modeling and Simulation of Frictional Contacts in Multi-rigid-Body Systems. <i>Mechanisms and Machine Science</i> , 2022 , 77-84	0.3	
168	Modelling Spherical Joints in Multibody Systems. <i>Mechanisms and Machine Science</i> , 2022 , 85-93	0.3	1
167	On the Utilization of Simplified Methodologies for the Wheel-Rail Contact. <i>Mechanisms and Machine Science</i> , 2022 , 114-121	0.3	
166	A compendium of contact force models inspired by Hunt and Crossley's cornerstone work. <i>Mechanism and Machine Theory</i> , 2022 , 167, 104501	4	4
165	A bibliometric overview of Mechanism and Machine Theory journal: Publication trends from 1990 to 2020. <i>Mechanism and Machine Theory</i> , 2022 , 175, 104965	4	0
164	Dynamic Modeling of a Human-Inspired Robot Based on a Newton-Euler Approach. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2022 , 79-90	0.6	
163	Examination and comparison of different methods to model closed loop kinematic chains using Lagrangian formulation with cut joint, clearance joint constraint and elastic joint approaches. <i>Mechanism and Machine Theory</i> , 2021 , 160, 104294	4	12
162	Obesity effects on muscular activity during lifting and lowering tasks. <i>International Journal of Occupational Safety and Ergonomics</i> , 2021 , 27, 217-225	2.1	3
161	Current Perspectives on the Biomechanical Modelling of the Human Lower Limb: A Systematic Review. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 601-636	7.8	3
160	Trends in the Control of Hexapod Robots: A Survey. <i>Robotics</i> , 2021 , 10, 100	2.8	6
159	Portuguese higher education students' adaptation to online teaching and learning in times of the COVID-19 pandemic: personal and contextual factors. <i>Higher Education</i> , 2021 , 1-20	3	15
158	An investigation of a novel LuGre-based friction force model. <i>Mechanism and Machine Theory</i> , 2021 , 166, 104493	4	12
157	Coupling multi-body dynamics and fluid dynamics to model lubricated spherical joints. <i>Archive of Applied Mechanics</i> , 2020 , 90, 2091-2111	2.2	8
156	A three-dimensional approach for contact detection between realistic wheel and rail surfaces for improved railway dynamic analysis. <i>Mechanism and Machine Theory</i> , 2020 , 149, 103825	4	29
155	Thermo-Mechanical Behaviour of Human Nasal Cartilage. <i>Polymers</i> , 2020 , 12,	4.5	2

154	Kinematics differences between obese and non-obese workers during vertical handling tasks. <i>International Journal of Industrial Ergonomics</i> , 2020 , 77, 102955	2.9	2
153	Patients with different patellofemoral disorders display a distinct ligament stiffness pattern under instrumented stress testing. <i>Journal of ISAKOS</i> , 2020 , 5, 74-79	1.1	4
152	Contact Detection Approach Between Wheel and Rail Surfaces. <i>Mechanisms and Machine Science</i> , 2020 , 405-412	0.3	1
151	On the Computational Biomechanics of the Intervertebral Disc. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2020 , 223-240	0.3	
150	Radix-2r recoding with common subexpression elimination for multiple constant multiplication. <i>IET Circuits, Devices and Systems</i> , 2020 , 14, 990-994	1.1	
149	Tribological Behavior of 316L Stainless Steel Reinforced with CuCoBe + Diamond Composites by Laser Sintering and Hot Pressing: A Comparative Statistical Study. <i>Lecture Notes in Computer Science</i> , 2020 , 231-246	0.9	0
148	Micro-CT based finite element modelling and experimental characterization of the compressive mechanical properties of 3-D zirconia scaffolds for bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103516	4.1	18
147	Thermographic differences due to dynamic work tasks on individuals with different obesity levels: a preliminary study. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020 , 8, 323-333	0.9	0
146	Crashworthiness analysis of an aircraft fuselage section with an auxiliary fuel tank using a hybrid multibody/plastic hinge approach. <i>International Journal of Crashworthiness</i> , 2020 , 25, 95-105	1	3
145	Unilateral anterior knee pain is associated with increased patellar lateral position after stressed lateral translation. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020 , 28, 454-462	5.5	6
144	Dynamic Modeling and Analysis of Pool Balls Interaction. <i>Computational Methods in Applied Sciences (Springer)</i> , 2020 , 79-86	0.4	4
143	Implementation of a non-Hertzian contact model for railway dynamic application. <i>Multibody System Dynamics</i> , 2020 , 48, 41-78	2.8	32
142	A new device for patellofemoral instrumented stress-testing provides good reliability and validity. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020 , 28, 389-397	5.5	7
141	Utilization of Non-Conformal Wheel Surfaces for Railway Dynamics. <i>Mechanisms and Machine Science</i> , 2019 , 3291-3300	0.3	2
140	Computational Modelling of Human Lower Limb for Reproduction of Walking Dynamics with Muscles: Healthy and Pathological Cases. <i>Mechanisms and Machine Science</i> , 2019 , 3227-3236	0.3	
139	Effects of workers' Body Mass Index and task conditions on exertion psychophysics during Vertical Handling Tasks. <i>Work</i> , 2019 , 63, 231-241	1.6	3
138	Design, Modelling and Control of an Active Weight-Bearing Knee Exoskeleton with a Series Elastic Actuator 2019 ,		3
137	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. <i>Multibody System Dynamics</i> , 2019 , 45, 223-244	2.8	64

136	High heterogeneity in in vivo instrumented-assisted patellofemoral joint stress testing: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019 , 27, 745-757	5.5	7
135	On the generation of enhanced lookup tables for wheel-rail contact models. <i>Wear</i> , 2019 , 434-435, 2029935	3.5	19
134	The journal of Mechanism and Machine Theory: Celebrating 55 years since its foundation. <i>Mechanism and Machine Theory</i> , 2019 , 142, 103599	4	5
133	Workers Body Constitution as a Risk Factor During Manual Materials Handling. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 898-903	0.4	
132	Passive Walking Biped Model with Dissipative Contact and Friction Forces. <i>Mechanisms and Machine Science</i> , 2019 , 35-42	0.3	2
131	Approach for Conformal Contact Detection for Wheel-Rail Interaction. <i>Mechanisms and Machine Science</i> , 2019 , 71-78	0.3	2
130	An Optimization Approach to Generate Accurate and Efficient Lookup Tables for Engineering Applications 2019 , 1446-1457		
129	A finite element model of a 3D dry revolute joint incorporated in a multibody dynamic analysis. <i>Multibody System Dynamics</i> , 2019 , 45, 293-313	2.8	24
128	Modelling and simulation of alternative designs for the femur implant interface of Journey patellofemoral prosthesis. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 1619-1628	1.3	2
127	Wear behaviour of tetragonal zirconia polycrystal with a porous surface. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 75, 85-93	4.1	8
126	A comprehensive survey of the analytical, numerical and experimental methodologies for dynamics of multibody mechanical systems with clearance or imperfect joints. <i>Mechanism and Machine Theory</i> , 2018 , 122, 1-57	4	187
125	A particle swarm-based algorithm for optimization of multi-layered and graded dental ceramics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 461-469	4.1	15
124	Analysis of Infrared Imaging During Vertical Handling Tasks in Workers with Different Levels of Obesity. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 447-455	0.4	
123	A Study on Constraints Violation in Dynamic Analysis of Spatial Mechanisms. <i>Mechanisms and Machine Science</i> , 2018 , 593-601	0.3	1
122	The first fifty years of the Mechanism and Machine Theory: Standing back and looking forward. <i>Mechanism and Machine Theory</i> , 2018 , 125, 8-20	4	3
121	Professor Bernard (Bernie) Roth: A short biography. <i>Mechanism and Machine Theory</i> , 2018 , 125, 3-7	4	
120	Nickel-cobalt-based materials for diamond cutting tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 1059-1067	3.2	11
119	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	34

118	An enhanced formulation to model spatial revolute joints with radial and axial clearances. <i>Mechanism and Machine Theory</i> , 2017 , 116, 123-144	4	93
117	On the constraints violation in forward dynamics of multibody systems. <i>Multibody System Dynamics</i> , 2017 , 39, 385-419	2.8	62
116	3D Formulation for Revolute Clearance Joints. <i>Mechanisms and Machine Science</i> , 2017 , 183-191	0.3	3
115	A new approach to implement a customized anatomic insole in orthopaedic footwear of lower limb orthosis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 254, 232006	0.4	2
114	Recent Developments on Cylindrical Contact Force Models with Realistic Properties. <i>Mechanisms and Machine Science</i> , 2017 , 211-219	0.3	4
113	A review of squeaking in ceramic total hip prostheses. <i>Tribology International</i> , 2016 , 93, 239-256	4.9	24
112	Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva. <i>Wear</i> , 2016 , 368-369, 84-91	3.5	17
111	Dissipative Contact Force Models. <i>Solid Mechanics and Its Applications</i> , 2016 , 27-52	0.4	3
110	Contact Force Models for Multibody Dynamics. <i>Solid Mechanics and Its Applications</i> , 2016 ,	0.4	46
109	Numerical Methods in Multibody System Dynamics. <i>Solid Mechanics and Its Applications</i> , 2016 , 93-134	0.4	
108	Influence of the Hip Joint Modeling Approaches on the Kinematics of Human Gait. <i>Journal of Tribology</i> , 2016 , 138,	1.8	12
107	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints 2016 ,		2
106	Pure Elastic Contact Force Models. <i>Solid Mechanics and Its Applications</i> , 2016 , 15-25	0.4	0
105	On the Frictional Contacts in Multibody System Dynamics. <i>Computational Methods in Applied Sciences (Springer)</i> , 2016 , 67-91	0.4	20
104	Multibody Systems Formulation. <i>Solid Mechanics and Its Applications</i> , 2016 , 53-91	0.4	2
103	Demonstrative Application Examples. <i>Solid Mechanics and Its Applications</i> , 2016 , 135-168	0.4	0
102	Nonlinear dynamics and chaotic control of a flexible multibody system with uncertain joint clearance. <i>Nonlinear Dynamics</i> , 2016 , 86, 1571-1597	5	75
101	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. <i>Nonlinear Dynamics</i> , 2016 , 86, 1407-1443	5	188

100	Concepts and Formulations for Spatial Multibody Dynamics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 ,	0.4	10
99	A Computational Analysis of Squeaking Hip Prostheses. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015 , 10,	1.4	15
98	Dynamic modeling and analysis of wear in spatial hard-on-hard couple hip replacements using multibody systems methodologies. <i>Nonlinear Dynamics</i> , 2015 , 82, 1039-1058	5	42
97	A comparative study of the viscoelastic constitutive models for frictionless contact interfaces in solids. <i>Mechanism and Machine Theory</i> , 2015 , 85, 172-188	4	148
96	A kinematic characterization of human walking by using CaTraSys. <i>Mechanism and Machine Theory</i> , 2015 , 86, 125-139	4	13
95	Synthesis of a Mechanism for Human Gait Rehabilitation: An Introductory Approach. <i>Mechanisms and Machine Science</i> , 2015 , 121-128	0.3	7
94	Coupling dynamics of a geared multibody system supported by ElastoHydroDynamic lubricated cylindrical joints. <i>Multibody System Dynamics</i> , 2015 , 33, 259-284	2.8	71
93	Development and Early Results of a New Concept of an Orthopedic Footwear Stirrup. <i>Mechanisms and Machine Science</i> , 2015 , 699-707	0.3	
92	Multi-objective Optimization of Mechanisms with Clearances in Revolute Joints. <i>Mechanisms and Machine Science</i> , 2015 , 423-433	0.3	4
91	On the Study of the Kinematic Position Errors Due to Manufacturing and Assembly Tolerances. <i>Mechanisms and Machine Science</i> , 2015 , 81-90	0.3	1
90	Biomechanical behaviour of cancellous bone on patellofemoral arthroplasty with Journey prosthesis: a finite element study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 1090-1098	2.1	7
89	Wear Prediction of Ceramic-on-Ceramic Artificial Hip Joints. <i>Mechanisms and Machine Science</i> , 2015 , 463-470	0.3	1
88	Human Gait Analyses Using Multibody Systems Formulation: Normal and Pathological Scenarios. <i>Mechanisms and Machine Science</i> , 2015 , 505-513	0.3	1
87	Design of a New Medical Device for Aiding Clinical Diagnosis of Patellofemoral Disorders. <i>Mechanisms and Machine Science</i> , 2015 , 633-641	0.3	1
86	Modeling, Analysis and Simulation of 3D Elastohydrodynamic Revolute Joints in Multibody Systems. <i>Mechanisms and Machine Science</i> , 2015 , 199-209	0.3	2
85	Euler Angles, Bryant Angles and Euler Parameters. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 15-22	0.4	2
84	Dynamic Modeling and Analysis of an Industrial Cutting File Machine. <i>Mechanisms and Machine Science</i> , 2015 , 923-931	0.3	
83	Techniques for Geometrical Detection of Contact Within Multibody Systems. <i>Mechanisms and Machine Science</i> , 2015 , 471-478	0.3	

82	A Form-Closed Cam-Follower Mechanism for a Breath Simulator Machine. <i>Mechanisms and Machine Science</i> , 2015 , 129-137	0.3	
81	A New Approach to Eliminate the Constraints Violation at the Position and Velocity Levels in Constrained Mechanical Multibody Systems. <i>Mechanisms and Machine Science</i> , 2015 , 385-393	0.3	
80	Basic Constraints Between Two Vectors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 37-41	0.4	
79	Vector of Coordinates, Velocities and Accelerations. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 27-29	0.4	
78	Force Elements and Reaction Forces. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 55-59	0.4	
77	Kinematic Constraint Equations. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 31-35	0.4	1
76	Angular Velocity and Acceleration. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 23-26	0.4	
75	Fundamental Concepts in Multibody Dynamics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 5-9	0.4	
74	Methods to Solve the Equations of Motion. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 61-66	0.4	
73	Demonstrative Example of Application. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 79-83	0.4	
72	Equations of Motion for Constrained Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 49-53	0.4	
71	Integration Methods in Dynamic Analysis. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 67-74	0.4	
70	Global and Local Coordinates. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 11-14	0.4	
69	Kinematic Joints Constraints. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 43-48	0.4	
68	Correction of the Initial Conditions. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 75-78	0.4	
67	Definition of Multibody System. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 1-3	0.4	
66	Study of the friction-induced vibration and contact mechanics of artificial hip joints. <i>Tribology International</i> , 2014 , 70, 1-10	4.9	51
65	A Lookup-Table-Based Approach for Spatial Analysis of Contact Problems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014 , 9,	1.4	6

64	A Kriging Model for Dynamics of Mechanical Systems With Revolute Joint Clearances. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014 , 9,	1.4	38
63	Patellofemoral Evaluation: Do We Need an Objective Kinematic Approach? 2014 , 37-44		2
62	Nonlinear vibration and dynamics of ceramic on ceramic artificial hip joints: a spatial multibody modelling. <i>Nonlinear Dynamics</i> , 2014 , 76, 1365-1377	5	48
61	Study of the effect of contact force model on the dynamic response of mechanical systems with dry clearance joints: computational and experimental approaches. <i>Nonlinear Dynamics</i> , 2013 , 73, 325-338	5	136
60	Clinical diagnosis of patellofemoral disorders 2013 ,		2
59	Study of the Contact Force Model on the Dynamic Response of a Four-Bar Mechanism with Clearance Joints. <i>Mechanisms and Machine Science</i> , 2013 , 541-548	0.3	1
58	Comparison of Different Contact Force Models for Low and Moderate Impact Velocities: Numerical and Experimental Analysis. <i>Mechanisms and Machine Science</i> , 2013 , 549-556	0.3	
57	ElastoHydroDynamic lubricated cylindrical joints for rigid-flexible multibody dynamics. <i>Computers and Structures</i> , 2013 , 114-115, 106-120	4.5	101
56	Comparison of Different Methods to Control Constraints Violation in Forward Multibody Dynamics 2013 ,		4
55	Design of a New Knee Orthosis Locking System 2013 ,		2
54	A Computational Approach for Cam Size Optimization of Disc Cam-Follower Mechanisms With Translating Roller Followers. <i>Journal of Mechanisms and Robotics</i> , 2013 , 5,	2.2	22
53	Compliant contact force models in multibody dynamics: Evolution of the Hertz contact theory. <i>Mechanism and Machine Theory</i> , 2012 , 53, 99-121	4	362
52	A biomechanical multibody foot model for forward dynamic analysis 2012 ,		3
51	Development of a biomechanical spine model for dynamic analysis 2012 ,		4
50	Modeling of the condyle elements within a biomechanical knee model. <i>Multibody System Dynamics</i> , 2012 , 28, 181-197	2.8	13
49	The effect of the lubricated revolute joint parameters and hydrodynamic force models on the dynamic response of planar multibody systems. <i>Nonlinear Dynamics</i> , 2012 , 69, 635-654	5	81
48	Application of the nonsmooth dynamics approach to model and analysis of the contact-impact events in cam-follower systems. <i>Nonlinear Dynamics</i> , 2012 , 69, 2117-2133	5	55
47	Dynamic Response of Multibody Systems with Multiple Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2012 , 7,	1.4	89

46	A new model for dry and lubricated cylindrical joints with clearance in spatial flexible multibody systems. <i>Nonlinear Dynamics</i> , 2011 , 64, 25-47	5	156
45	Numerical and experimental investigation on multibody systems with revolute clearance joints. <i>Nonlinear Dynamics</i> , 2011 , 65, 383-398	5	178
44	On the continuous contact force models for soft materials in multibody dynamics. <i>Multibody System Dynamics</i> , 2011 , 25, 357-375	2.8	235
43	Compliant contact force approach for forward dynamic modeling and analysis of biomechanical systems. <i>Procedia IUTAM</i> , 2011 , 2, 58-67		4
42	A Parametric Study on the Baumgarte Stabilization Method for Forward Dynamics of Constrained Multibody Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011 , 6,	1.4	86
41	Influence of the contact model on the dynamic response of the human knee joint. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2011 , 225, 344-358	0.9	13
40	A Methodology for Quantifying the Kinematic Position Errors due to Manufacturing and Assembly Tolerances. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2011 , 57, 457-467	1.3	11
39	Modeling and Analysis of Rigid Multibody Systems with Translational Clearance Joints Based on the Nonsmooth Dynamics Approach. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 107-130	0.4	2
38	Modeling and analysis of planar rigid multibody systems with translational clearance joints based on the non-smooth dynamics approach. <i>Multibody System Dynamics</i> , 2010 , 23, 165-190	2.8	160
37	On the contact detection for contact-impact analysis in multibody systems. <i>Multibody System Dynamics</i> , 2010 , 24, 103-122	2.8	174
36	A mathematical framework for rigid contact detection between quadric and superquadric surfaces. <i>Multibody System Dynamics</i> , 2010 , 24, 255-280	2.8	61
35	Spatial rigid-multibody systems with lubricated spherical clearance joints: modeling and simulation. <i>Nonlinear Dynamics</i> , 2010 , 60, 99-114	5	115
34	Development of a planar multibody model of the human knee joint. <i>Nonlinear Dynamics</i> , 2010 , 60, 459-478		62
33	A parametric study on the dynamic response of planar multibody systems with multiple clearance joints. <i>Nonlinear Dynamics</i> , 2010 , 61, 633-653	5	189
32	Strain shielding in distal femur after patellofemoral arthroplasty under different activity conditions. <i>Journal of Biomechanics</i> , 2010 , 43, 477-84	2.9	22
31	Search algorithms for the multiple constant multiplications problem: Exact and approximate. <i>Microprocessors and Microsystems</i> , 2010 , 34, 151-162	2.4	50
30	Spatial Multibody Systems with Lubricated Spherical Joints: Modeling and Simulation 2010 , 397-404		1
29	Kinematic Analysis of the Roller Follower Motion in Translating Cam-Follower Mechanisms 2010 , 253-259		

28	Cam Size Optimization of Disc Cam-Follower Mechanisms with Translating Roller Followers 2010 , 225-233		2
27	Kinematics of the Roller Motion and CAM Size Optimization of Disc CAM-Follower Mechanisms With Translating Roller Followers 2009 ,		2
26	Lubricated revolute joints in rigid multibody systems. <i>Nonlinear Dynamics</i> , 2009 , 56, 277-295	5	94
25	Modeling and simulation of wear in revolute clearance joints in multibody systems. <i>Mechanism and Machine Theory</i> , 2009 , 44, 1211-1222	4	202
24	Dynamics of spatial flexible multibody systems with clearance and lubricated spherical joints. <i>Computers and Structures</i> , 2009 , 87, 913-929	4.5	159
23	A Parametric Study on the Baumgarte Stabilization Method for Forward Dynamics of Constrained Multibody Systems 2009 ,		1
22	Investigation on the Baumgarte Stabilization Method for Dynamic Analysis of Constrained Multibody Systems 2009 , 305-312		5
21	Exact and Approximate Algorithms for the Optimization of Area and Delay in Multiple Constant Multiplications. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2008 , 27, 1013-1026	2.5	63
20	Translational Joints With Clearance in Rigid Multibody Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008 , 3,	1.4	69
19	Multibody Systems Formulation 2008 , 23-45		
18	Planar Joints with Clearance: Dry Contact Models 2008 , 67-100		0
17	Lubricated Joints for Mechanical Systems 2008 , 101-131		
16	Contact-Impact Force Models for Mechanical Systems 2008 , 47-66		8
15	Spatial Joints with Clearance: Dry Contact Models 2008 , 133-169		4
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	0.9	29
13	A Systematic and General Approach to Kinematic Position Errors Due to Manufacturing and Assemble Tolerances 2007 , 43		2
12	Modeling Expected Wear in Revolute Joints With Clearance in Multibody Mechanical Systems 2007 , 357		
11	Development of mechanical engineering curricula at the University of Minho. <i>European Journal of Engineering Education</i> , 2007 , 32, 539-549	1.5	6

10	A study on dynamics of mechanical systems including joints with clearance and lubrication. <i>Mechanism and Machine Theory</i> , 2006 , 41, 247-261	4	206
9	Dynamics of Multibody Systems With Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006 , 1, 240-247	1.4	86
8	Development of Mechanical Engineering Curricula at the University of Minho 2006 , 353		
7	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	0.9	19
6	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	0.9	53
5	Modelling lubricated revolute joints in multibody mechanical systems. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2004 , 218, 183-190	0.9	11
4	Dynamic Analysis for Planar Multibody Mechanical Systems with Lubricated Joints. <i>Multibody System Dynamics</i> , 2004 , 12, 47-74	2.8	160
3	Revolute joints with clearance in multibody systems. <i>Computers and Structures</i> , 2004 , 82, 1359-1369	4.5	214
2	Wheel-rail contact models in the presence of switches and crossings. <i>Vehicle System Dynamics</i> , 1-33	2.8	2
1	On the Modeling of Biomechanical Systems for Human Movement Analysis: A Narrative Review. <i>Archives of Computational Methods in Engineering</i> , 1	7.8	0