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List of Publications by Year in descending order

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39
papers

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759233

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41
times ranked

341
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic selection of the Groebner Basis™ monomial order employed for the synthesis of the inverse kinematic model of non-redundant open-chain robotic systems. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 2458-2480.	4.7	0
2	Performance Index for Dimensional Synthesis of Robots for Specific Tasks. <i>Robotics</i> , 2022, 11, 51.	3.5	1
3	Mathematical Modeling of Physical Capital Diffusion Using a Spatial Solow Model: Application to Smuggling in Venezuela. <i>Economies</i> , 2022, 10, 164.	2.5	2
4	Experimental analysis of Type II singularities and assembly change points in a 3UPS+RPU parallel robot. <i>Mechanism and Machine Theory</i> , 2021, 158, 104242.	4.5	16
5	Reconfiguration of a parallel kinematic manipulator with 2T2R motions for avoiding singularities through minimizing actuator forces. <i>Mechatronics</i> , 2020, 69, 102382.	3.3	6
6	Optimization of the Controls against the Spread of Zika Virus in Populations. <i>Computation</i> , 2020, 8, 76.	2.0	7
7	Mathematical modeling to design public health policies for Chikungunya epidemic using optimal control. <i>Optimal Control Applications and Methods</i> , 2020, 41, 1584-1603.	2.1	12
8	Synthesis of the Inverse Kinematic Model of Non-Redundant Open-Chain Robotic Systems Using Groebner Basis Theory. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2781.	2.5	8
9	End-effector positioning due to joint clearances: A comparison among three planar 2-DOF parallel manipulators. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 3497-3507.	1.5	4
10	Kinematic analysis and dimensional optimization of a 2R2T parallel manipulator. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	14
11	Synthesis of planar parallel manipulators including dexterity, force transmission and stiffness index. <i>Mechanics Based Design of Structures and Machines</i> , 2019, 47, 680-702.	4.7	13
12	Development of a virtual learning environment for the subject numerical methods under Moodle. <i>Journal of Physics: Conference Series</i> , 2019, 1161, 012010.	0.4	1
13	Mathematical Modeling and Characterization of the Spread of Chikungunya in Colombia. <i>Mathematical and Computational Applications</i> , 2019, 24, 6.	1.3	9
14	Pedagogical strategies for enhancing machine design teaching in a mechanical technology programme. <i>Revista UIS Ingenierías</i> , 2019, 18, 15-25.	0.2	2
15	Mechatronic design, experimental setup, and control architecture design of a novel 4 DoF parallel manipulator. <i>Mechanics Based Design of Structures and Machines</i> , 2018, 46, 425-439.	4.7	21
16	Experimental Setup of a Novel 4 DoF Parallel Manipulator. <i>Mechanisms and Machine Science</i> , 2018, , 389-400.	0.5	1
17	Technological development of a low-cost wrist rehabilitation robot: Kinematic and static performance analysis. <i>Journal of Physics: Conference Series</i> , 2018, 1126, 012069.	0.4	2
18	A 3-PRS parallel manipulator for ankle rehabilitation: towards a low-cost robotic rehabilitation. <i>Robotica</i> , 2017, 35, 1939-1957.	1.9	35

#	ARTICLE	IF	CITATIONS
19	Design and Kinematic Analysis of a Novel 3UPS/RPU Parallel Kinematic Mechanism With 2T2R Motion for Knee Diagnosis and Rehabilitation Tasks. <i>Journal of Mechanisms and Robotics</i> , 2017, 9, .	2.2	24
20	Controller-observer design and dynamic parameter identification for model-based control of an electromechanical lower-limb rehabilitation system. <i>International Journal of Control</i> , 2017, 90, 702-714.	1.9	11
21	Comparison of trajectory parametrization methods with statistical analysis for dynamic parameter identification of serial robot. , 2017, , .		1
22	Estrategia de optimización para la síntesis dimensional de un robot paralelo 5R para una aplicación de mesa de corte. <i>Revista UIS Ingenierías</i> , 2017, 16, 197-206.	0.2	9
23	Design of a 3-UPS-RPU Parallel Robot for Knee Diagnosis and Rehabilitation. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016, , 303-310.	0.6	8
24	Dynamic Parameter Identification of Subject-Specific Body Segment Parameters Using Robotics Formalism: Case Study Head Complex. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 051009.	1.3	7
25	Hybrid force/position control for a 3-DOF 1T2R parallel robot: Implementation, simulations and experiments. <i>Mechanics Based Design of Structures and Machines</i> , 2016, 44, 16-31.	4.7	18
26	Solving the dynamic equations of a 3-PRS Parallel Manipulator for efficient model-based designs. <i>Mechanical Sciences</i> , 2016, 7, 9-17.	1.0	6
27	Implementation of dynamic controllers using real-time middleware for a low-cost parallel robot. , 2014, , .		3
28	Adaptive control of a 3-DOF parallel manipulator considering payload handling and relevant parameter models. <i>Robotics and Computer-Integrated Manufacturing</i> , 2014, 30, 468-477.	9.9	45
29	Model-Based Control of a 3-DOF Parallel Robot Based on Identified Relevant Parameters. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 1737-1744.	5.8	54
30	On the Conditioning of the Observation Matrix for Dynamic Parameters Identification of Parallel Robots. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013, , 101-108.	0.6	2
31	Mechatronic Development and Dynamic Control of a 3-DOF Parallel Manipulator. <i>Mechanics Based Design of Structures and Machines</i> , 2012, 40, 434-452.	4.7	21
32	Nonstandard numerical schemes for modeling a 2-DOF serial robot with rotational spring-damper-actuators. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 1211-1224.	2.1	5
33	A methodology for dynamic parameters identification of 3-DOF parallel robots in terms of relevant parameters. <i>Mechanism and Machine Theory</i> , 2010, 45, 1337-1356.	4.5	52
34	Dynamic simulation of a parallel robot: Coulomb friction and stick-slip in robot joints. <i>Robotica</i> , 2010, 28, 35-45.	1.9	19
35	Forward Dynamics of 3-DOF Parallel Robots: a Comparison Among Different Models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010, , 283-290.	0.6	0
36	On the Experiment Design for Direct Dynamic Parameter Identification of Parallel Robots. <i>Advanced Robotics</i> , 2009, 23, 329-348.	1.8	16

#	ARTICLE	IF	CITATIONS
37	A Multicriteria Approach for Optimal Trajectories in Dynamic Parameter Identification of Parallel Robots. , 2009, , 279-285.		0
38	Identifiability of the Dynamic Parameters of a Class of Parallel Robots in the Presence of Measurement Noise and Modeling Discrepancy#. Mechanics Based Design of Structures and Machines, 2008, 36, 478-498.	4.7	12
39	Dynamic Parameter Identification for Parallel Manipulators. , 2008, , .		6