

# Juan A Carretero

## List of Publications by Year in descending order

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37  
papers

987  
citations

567247

15  
h-index

454934

30  
g-index

39  
all docs

39  
docs citations

39  
times ranked

626  
citing authors

#	ARTICLE	IF	CITATIONS
1	The integration of Six Sigma and lean management. International Journal of Lean Six Sigma, 2010, 1, 249-274.	3.3	229
2	Formulating Jacobian matrices for the dexterity analysis of parallel manipulators. Mechanism and Machine Theory, 2006, 41, 1505-1519.	4.5	120
3	3-PRRR redundant planar parallel manipulator: Inverse displacement, workspace and singularity analyses. Mechanism and Machine Theory, 2007, 42, 1007-1016.	4.5	111
4	Quantitative dexterous workspace comparison of parallel manipulators. Mechanism and Machine Theory, 2007, 42, 1388-1400.	4.5	55
5	Wrench capability analysis of redundantly actuated spatial parallel manipulators. Mechanism and Machine Theory, 2009, 44, 1070-1081.	4.5	47
6	Kinematic analysis and path planning of a new kinematically redundant planar parallel manipulator. Robotica, 2008, 26, 405-413.	1.9	42
7	Architecture optimisation of three 3-RS variants for parallel kinematic machining. Robotics and Computer-Integrated Manufacturing, 2009, 25, 64-72.	9.9	38
8	The integration of quality management and continuous improvement methodologies with management systems. International Journal of Productivity and Quality Management, 2010, 6, 269.	0.2	36
9	A Family of Kinematically Redundant Planar Parallel Manipulators. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	34
10	An evolutionary framework using particle swarm optimization for classification method PROAFTN. Applied Soft Computing Journal, 2011, 11, 4971-4980.	7.2	31
11	Differential Evolution for learning the classification method PROAFTN. Knowledge-Based Systems, 2010, 23, 418-426.	7.1	30
12	A Concept for Docking a UUV With a Slowly Moving Submarine Under Waves. IEEE Journal of Oceanic Engineering, 2016, 41, 471-498.	3.8	29
13	Implementation of Lean Six Sigma (LSS) in supply chain management (SCM): an integrated management philosophy. International Journal of Transitions and Innovation Systems, 2011, 1, 138.	0.3	27
14	Overall Motion Planning for Kinematically Redundant Parallel Manipulators. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	17
15	Reconfigurable mass parameters to cross direct kinematic singularities in parallel manipulators. Mechanism and Machine Theory, 2015, 85, 53-63.	4.5	16
16	Appropriate analysis of the four-bar linkage. Mechanism and Machine Theory, 2019, 139, 237-250.	4.5	16
17	Appropriate synthesis of the four-bar linkage. Mechanism and Machine Theory, 2020, 153, 103965.	4.5	15
18	Comparing Cognitive Efficiency of Experienced and Inexperienced Designers in Conceptual Design Processes. Journal of Cognitive Engineering and Decision Making, 2014, 8, 330-351.	2.3	13

#	ARTICLE	IF	CITATIONS
19	A New Method to Calculate the Force and Moment Workspaces of Actuation Redundant Spatial Parallel Manipulators. Journal of Mechanisms and Robotics, 2009, 1, .	2.2	10
20	Solving Minimum Distance Problems With Convex or Concave Bodies Using Combinatorial Global Optimization Algorithms. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1144-1155.	5.0	9
21	DYNAMICS OF TWO ACTIVE AUTONOMOUS DOCK MECHANISMS FOR ALIV RECOVERY. Transactions of the Canadian Society for Mechanical Engineering, 2014, 38, 213-226.	0.8	8
22	Dexterity measures and their use in quantitative dexterity comparisons. Meccanica, 2011, 46, 51-64.	2.0	7
23	Modeling and Real-Time Motion Planning of a Class of Kinematically Redundant Parallel Mechanisms With Reconfigurable Platform. Journal of Mechanisms and Robotics, 2023, 15, .	2.2	7
24	Determining the Force and Moment Workspaces of Redundantly-Actuated Spatial Parallel Manipulators. , 2007, , 1063.		5
25	Discretization Techniques and Genetic Algorithm for Learning the Classification Method PROAFTN. , 2009, , .		4
26	LENGTH-OPTIMIZED SMOOTH OBSTACLE AVOIDANCE FOR ROBOTIC MANIPULATORS. Transactions of the Canadian Society for Mechanical Engineering, 2011, 35, 505-514.	0.8	4
27	Evaluating Cognitive Efficiency by Measuring Information Contained in Designersâ€™ Cognitive Processes. , 2013, , .		4
28	Continuous Collision Detection of Cubic-Spline-Based Tethers in ROV Simulations. Journal of Offshore Mechanics and Arctic Engineering, 2009, 131, .	1.2	3
29	A Pilot Study for Investigating Factors That Affect Cognitive Load in the Conceptual Design Process. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 180-184.	0.3	3
30	AN INTERVAL ANALYSIS METHOD FOR WRENCH WORKSPACE DETERMINATION OF PARALLEL MANIPULATOR ARCHITECTURES. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 139-154.	0.8	3
31	Towards the appropriate synthesis of the four-bar linkage. Transactions of the Canadian Society for Mechanical Engineering, 2018, 42, 1-9.	0.8	3
32	An Investigation of the Relation between the Complexity of Problem Structure and Mental Effort. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 260-264.	0.3	2
33	Discussion: â€œKinematics of a New High-Precision Three-Degree-of-Freedom Parallel Manipulatorâ€• (Tahmasebi, F., 2007, ASME J. Mech. Des., 129, pp. 320â€“325). Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	1
34	Example of Internal Redundancy to Improve the Dynamics Performance of Parallel Manipulators. , 2012, , .		1
35	Task-optimized cable-actuated planar parallel manipulator architecture and its concurrent implementation. , 2014, , .		1
36	A general approach to solve the singular kinematic problem. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Total Company-Wide Management System (TCWMS): culture change management considerations. International Journal of Strategic Change Management, 2011, 3, 260.	0.7	0