

# Carlos Angulo

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

468  
citations

1040018

9  
h-index

839512

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical investigation of the effect of spray cutting fluids in high speed milling. Journal of Materials Processing Technology, 2006, 172, 11-15.	6.3	184
2	Numerical simulation and experimental validation of powder flux distribution in coaxial laser cladding. Journal of Materials Processing Technology, 2010, 210, 2125-2134.	6.3	127
3	Design, Construction and Testing of a Hydraulic Power Take-Off for Wave Energy Converters. Energies, 2012, 5, 2030-2052.	3.1	37
4	Kinematical synthesis of 1-dof mechanisms using finite elements and genetic algorithms. Finite Elements in Analysis and Design, 2005, 41, 1441-1463.	3.2	19
5	A Quick Cycle Time Sensitivity Analysis of Boron Steel Hot Stamping. Metals, 2019, 9, 235.	2.3	15
6	A new finite element to represent prismatic joint constraints in mechanisms. Finite Elements in Analysis and Design, 2006, 43, 36-50.	3.2	11
7	Wear and Friction Evaluation of Different Tool Steels for Hot Stamping. Advances in Materials Science and Engineering, 2018, 2018, 1-11.	1.8	11
8	Effect of the Martensitic Transformation on the Stamping Force and Cycle Time of Hot Stamping Parts. Metals, 2018, 8, 385.	2.3	10
9	Theoretical analysis of the pumping effect of rotary hydrodynamic seals with elastomeric lips. Tribology International, 2007, 40, 896-905.	5.9	9
10	An improved meshing method for shape optimization of aerodynamic profiles using genetic algorithms. International Journal for Numerical Methods in Fluids, 2008, 56, 1383-1389.	1.6	9
11	Analysis and characterization of the behaviour of a variable geometry structure. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 1427-1434.	2.1	8
12	Investigation of Thermal and Mechanical Properties of Quenchable High-Strength Steels in Hot Stamping. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1527-1531.	2.1	6
13	FEM subsystem replacement techniques for strength problems in variable geometry trusses. Finite Elements in Analysis and Design, 2008, 44, 346-357.	3.2	5
14	Framework for the Shape Optimization of Aerodynamic Profiles Using Genetic Algorithms. Mathematical Problems in Engineering, 2013, 2013, 1-11.	1.1	5
15	A Metamodeling Technique for Variable Geometry Trusses Design via Equivalent Parametric Macroelements. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	4
16	Optimization of structures with frequency and mode shape constraints. Engineering Computations, 1994, 11, 81-91.	1.4	3
17	Compositional Modification of Tool Steel to Improve Its Wear Resistance. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3912-3921.	2.2	3
18	Retained Austenite Control for the Soft Machining of High-Hardness Tool Steels. Metals, 2018, 8, 564.	2.3	2