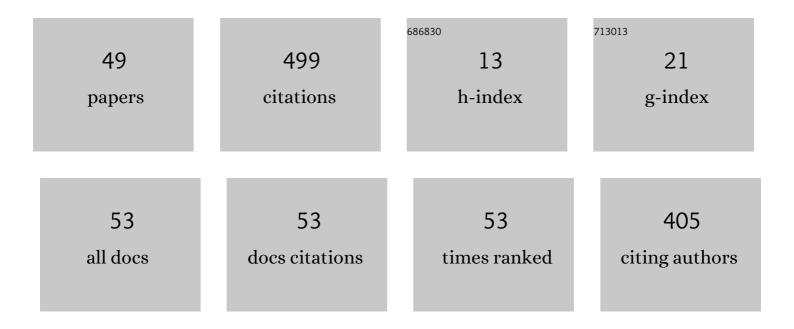
Roberto Fernandez Martinez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Combining soft computing techniques and the finite element method to design and optimize complex welded products. Integrated Computer-Aided Engineering, 2015, 22, 153-170.	2.5	49
2	Optimization of operating conditions for a double-row tapered roller bearing. International Journal of Mechanics and Materials in Design, 2016, 12, 353-373.	1.7	46
3	Using Genetic Algorithms with Multi-Objective Optimization to Adjust Finite Element Models of Welded Joints. Metals, 2018, 8, 230.	1.0	42
4	Determination of the contact stresses in double-row tapered roller bearings using the finite element method, experimental analysis and analytical models. Journal of Mechanical Science and Technology, 2015, 29, 4645-4656.	0.7	38
5	Use of decision tree models based on evolutionary algorithms for the morphological classification of reinforcing nano-particle aggregates. Computational Materials Science, 2014, 92, 102-113.	1.4	34
6	Decision support model for one-way floor slab design: A sustainable approach. Automation in Construction, 2013, 35, 460-470.	4.8	25
7	Using the finite element method and data mining techniques as an alternative method to determine the maximum load capacity in tapered roller bearings. Journal of Applied Logic, 2017, 24, 4-14.	1.1	24
8	Optimizing Biodiesel Production from Waste Cooking Oil Using Genetic Algorithm-Based Support Vector Machines. Energies, 2018, 11, 2995.	1.6	24
9	Optimizing presetting attributes by softcomputing techniques to improve tapered roller bearings working conditions. Advances in Engineering Software, 2018, 123, 13-24.	1.8	23
10	Using Genetic Algorithms to Optimize the Material Behaviour Model in Finite Element Models of Processes with Cyclic Loads. Journal of Strain Analysis for Engineering Design, 2011, 46, 143-159.	1.0	20
11	Methodology to classify the shape of reinforcement fillers: optimization, evaluation, comparison, and selection of models. Journal of Materials Science, 2017, 52, 569-580.	1.7	18
12	Comparative analysis of learning and meta-learning algorithms for creating models for predicting the probable alcohol level during the ripening of grape berries. Computers and Electronics in Agriculture, 2012, 80, 54-62.	3.7	15
13	Methodology based on genetic optimisation to develop overall parsimony models for predicting temperature settings on annealing furnace. Ironmaking and Steelmaking, 2014, 41, 87-98.	1.1	14
14	Characterization of electrolytic tinplate materials via combined finite element and regression models. Journal of Strain Analysis for Engineering Design, 2014, 49, 467-480.	1.0	13
15	Design and optimization of an electromagnetic servo braking system combining finite element analysis and weight-based multi-objective genetic algorithms. Journal of Mechanical Science and Technology, 2016, 30, 3591-3605.	0.7	13
16	Influence of Cryogenic Treatment on Wear Resistance and Microstructure of AISI A8 Tool Steel. Metals, 2018, 8, 1038.	1.0	13
17	Semi-automated quantification of the microstructure of PLA/clay nanocomposites to improve the prediction of the elastic modulus. Polymer Testing, 2018, 66, 280-291.	2.3	11
18	Use of support vector machines, neural networks and genetic algorithms to characterize rubber blends by means of the classification of the carbon black particles used as reinforcing agent. Soft Computing, 2019, 23, 6115-6124.	2.1	11

#	Article	IF	CITATIONS
19	Optimising tension levelling process by means of genetic algorithms and finite element method. Ironmaking and Steelmaking, 2011, 38, 45-52.	1.1	9
20	Pin on disk against ball on disk for the evaluation of wear improvement on cryo-treated metal cutting shears. AIP Conference Proceedings, 2015, , .	0.3	8
21	Combining genetic algorithms and the finite element method to improve steel industrial processes. Journal of Applied Logic, 2012, 10, 298-308.	1.1	7
22	Overhead Line Ampacity Forecasting With a Focus on Safety. IEEE Transactions on Power Delivery, 2022, 37, 329-337.	2.9	6
23	Overall model of the dynamic behaviour of the steel strip in an annealing heating furnace on a hot-dip galvanizing line. Revista De Metalurgia, 2010, 46, 405-420.	0.1	6
24	Improvement in Manufacturing Welded Products through Multiple Response Surface Methodology and Data Mining Techniques. Advances in Intelligent Systems and Computing, 2014, , 301-310.	0.5	5
25	Modeling of the Mechanical Properties of Carbon-Black Reinforced Rubber Blends by Machine Learning Techniques. Applied Mechanics and Materials, 0, 627, 97-100.	0.2	3
26	Combination of the Finite Element Method and Data Mining Techniques to Design and Optimize Bearings. Advances in Intelligent Systems and Computing, 2014, , 165-174.	0.5	3
27	Adjust the Thermo-Mechanical Properties of Finite Element Models Welded Joints Based on Soft Computing Techniques. Lecture Notes in Computer Science, 2017, , 699-709.	1.0	3
28	3D TEM reconstruction and segmentation process of laminar bio-nanocomposites. AIP Conference Proceedings, 2015, , .	0.3	2
29	Mechanical Behavior of PLA/Clay Reinforced Nanocomposite Material Using FE Simulations: Comparison of an Idealized Volume against the Real Electron Tomography Volume. Advanced Materials Research, 0, 1139, 20-24.	0.3	1
30	Use of classification trees and rule-based models to optimize the funding assignment to research projects: A case study of UTPL. Journal of Informetrics, 2021, 15, 101107.	1.4	1
31	Novel creep steel developed through innovative composition and thermal treatment. Materials at High Temperatures, 0, , 1-9.	0.5	1
32	Carbide distribution based on automatic image analysis for cryogenically treated tool steels. Materiali in Tehnologije, 2017, 51, 609-611.	0.3	1
33	Combining the Finite Element Method and Response Surface Methodology for Adjustment of Contact Stress Ratios in Tapered Roller Bearings. Mechanisms and Machine Science, 2015, , 957-964.	0.3	1
34	Improvement in the Process of Designing a New Artificial Human Intervertebral Lumbar Disc Combining Soft Computing Techniques and the Finite Element Method. Advances in Intelligent Systems and Computing, 2017, , 223-232.	0.5	1
35	Material Fracture Life Prediction Using Linear Regression Techniques Under High Temperature Creep Conditions. Lecture Notes in Computer Science, 2019, , 535-544.	1.0	1
36	Theoretical Model for Calculating the Rotation in Cementless Acetabular Cup Prosthesis Implanted by Press Fit into a Hip of Canines. Applied Mechanics and Materials, 0, 627, 101-104.	0.2	0

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37	Study of Different Biomaterials for Artificial Lumbar Disc Prosthesis Using FEM. Applied Mechanics and Materials, 0, 799-800, 483-487.	0.2	0
38	Use of Classification Trees and Rule-Based Methods to Predict Shapes of Nano-Aggregates of Reinforcement Fillers. Applied Mechanics and Materials, 0, 799-800, 130-134.	0.2	0
39	Design of an Electromagnetic Servo Brake with ABS Function. Applied Mechanics and Materials, 0, 799-800, 1172-1176.	0.2	0
40	Design of a Device to Eliminate Isocyanuric Acid from Water. Applied Mechanics and Materials, 0, 799-800, 952-956.	0.2	0
41	A Soft Computing Approach to Optimize the Clarification Process in Wastewater Treatment. Lecture Notes in Computer Science, 2016, , 609-620.	1.0	0
42	Tensile strength prediction of rubber blends using linear regression techniques. , 2017, , .		0
43	Multivariate Analysis of Composition Features to Perform Linear Predictions of Rubber Blends Tensile Strength. Applied Mechanics and Materials, 0, 872, 77-82.	0.2	0
44	Fatigue behavior prediction by Finite-Element-trained Data Mining models. , 2018, , .		0
45	Morphological classification of reinforcing nanoparticle aggregates: comparison between visual expert decision and machine learning techniques. , 2018, , .		0
46	Modeling Structural Elements Subjected to Buckling Using Data Mining and the Finite Element Method. Advances in Intelligent Systems and Computing, 2014, , 269-278.	0.5	0
47	Comparison Analysis of Regression Models Based on Experimental and FEM Simulation Datasets Used to Characterize Electrolytic Tinplate Materials. Advances in Intelligent Systems and Computing, 2014, , 279-288.	0.5	0
48	Finite Element Method application to solve biomechanical problems. Simulating the non-linear behavior of biomechanical problems. , 2017, , .		0
49	FEM study on vertebrae and ligaments human spine. Influence of the age, height and weight. , 2017, , .		0