

# Abraham Segade Robleda

## List of Publications by Year in descending order

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27  
papers

165  
citations

1478505

6  
h-index

1199594

12  
g-index

27  
all docs

27  
docs citations

27  
times ranked

199  
citing authors

#	ARTICLE	IF	CITATIONS
1	A genetic algorithm for the characterization of hyperelastic materials. Applied Mathematics and Computation, 2018, 329, 239-250.	2.2	32
2	A new predictive model based on the PSO-optimized support vector machine approach for predicting the milling tool wear from milling runs experimental data. International Journal of Advanced Manufacturing Technology, 2016, 86, 769-780.	3.0	30
3	Approximation to the dynamics of transported parts in a vibratory bowl feeder. Mechanism and Machine Theory, 2009, 44, 2217-2235.	4.5	22
4	Hyperelastic characterization oriented to finite element applications using genetic algorithms. Advances in Engineering Software, 2019, 133, 52-59.	3.8	12
5	Behavior characterization of visco-hyperelastic models for rubber-like materials using genetic algorithms. Applied Mathematical Modelling, 2019, 66, 241-255.	4.2	9
6	Finite Element Study of a Threaded Fastening: The Case of Surgical Screws in Bone. Symmetry, 2018, 10, 335.	2.2	8
7	Characterization of hyperelastic and damage behavior of tendons. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 213-223.	1.6	7
8	Behavior characterization of viscoelastic materials for the finite element method calculation applying Prony series. Computational and Mathematical Methods, 2019, 1, e1014.	0.8	5
9	Development and testing of a non-energy-absorbing anchorage system for roadside poles. International Journal of Crashworthiness, 2006, 11, 143-152.	1.9	4
10	Structural design of an RPC-based time-of-flight wall for ions (iTOF) for the R3B-FAIR experiment. Journal of Instrumentation, 2012, 7, P11015-P11015.	1.2	4
11	Study of a Steel's Energy Absorption System for Heavy Quadricycles and Nonlinear Explicit Dynamic Analysis of its Behavior under Impact by FEM. Materials, 2015, 8, 6893-6908.	2.9	4
12	Finite Element Simulation for Analysing the Design and Testing of an Energy Absorption System. Materials, 2016, 9, 660.	2.9	4
13	Numerical Analysis of an Osseointegration Model. Mathematics, 2020, 8, 87.	2.2	4
14	Feasible Geometrical Configurations for Split Torque Gearboxes With Idler Pinions. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	3
15	Analysis of Damage Models for Cortical Bone. Applied Sciences (Switzerland), 2019, 9, 2710.	2.5	3
16	Finite Element Validation of an Energy Attenuator for the Design of a Formula Student Car. Mathematics, 2020, 8, 416.	2.2	3
17	Analysis of a Poro-Thermo-Viscoelastic Model of Type III. Symmetry, 2019, 11, 1214.	2.2	2
18	Analysis of a bone remodeling model with myeloma disease arising in cellular dynamics. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3333.	2.1	2

#	ARTICLE	IF	CITATIONS
19	An study on the influence of collagen fiber directions in TAVs performance using FEM. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 104969.	3.1	2
20	Performance of timing RPC detectors for relativistic ions and design of a time-of-flight detector (iToF) for the R3B-FAIR experiment for fission and spallation reactions. , 2011, , .		1
21	A dynamic viscoelastic problem: Experimental and numerical results of a finite vibrating plate. Cogent Mathematics, 2017, 4, 1282691.	0.4	1
22	Evaluation of an FE Model for the Design of a Complex Thin-Wall CFRP Structure for a Scientific Instrument. Materials, 2019, 12, 489.	2.9	1
23	Numerical analysis of a bone remodeling model with damage. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113113.	6.6	1
24	Spatial extension of a bone remodeling dynamics model and its finite element analysis. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3429.	2.1	1
25	Modeling the milling tool wear by using an evolutionary SVMâ€‘based model from milling runs experimental data. AIP Conference Proceedings, 2015, , .	0.4	0
26	Approach to the Management Applied to the Periodical Technical Inspection (PTI) Stations in the Context of Industry 4.0. Lecture Notes in Mechanical Engineering, 2019, , 370-379.	0.4	0
27	CMMSE 2017 â€‘ a numerical method based on genetic algorithms for the characterization of viscoelastic materials. International Journal of Computer Mathematics, 2020, 97, 294-311.	1.8	0