

Hector A Tinoco

List of Publications by Year in descending order

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31
papers

216
citations

1163117

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1058476

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33
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times ranked

193
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element modal analysis of the fruit-peduncle of <i>Coffea arabica</i> L. var. Colombia estimating its geometrical and mechanical properties. <i>Computers and Electronics in Agriculture</i> , 2014, 108, 17-27.	7.7	54
2	Voltage relations for debonding detection of piezoelectric sensors with segmented electrode. <i>Mechanical Systems and Signal Processing</i> , 2012, 31, 258-267.	8.0	18
3	Damage Identification in Active Plates with Indices Based on Gaussian Confidence Ellipses Obtained of the Electromechanical Admittance. <i>Journal of Nondestructive Evaluation</i> , 2015, 34, 1.	2.4	18
4	Damage detection in plates using the electromechanical impedance technique based on decoupled measurements of piezoelectric transducers. <i>Journal of Sound and Vibration</i> , 2016, 384, 146-162.	3.9	18
5	Evaluation of a Piezo-Actuated Sensor for Monitoring Elastic Variations of Its Support with Impedance-Based Measurements. <i>Sensors</i> , 2019, 19, 184.	3.8	16
6	Modeling Elastic and Geometric Properties of <i>Coffea arabica</i> L. var. Colombia Fruits by an Experimental-numerical Approach. <i>International Journal of Fruit Science</i> , 2017, 17, 159-174.	2.4	13
7	Harmonic stress analysis on <i>Coffea arabica</i> L. var. Colombia fruits in order to stimulate the selective detachment: A finite element analysis. <i>Simulation</i> , 2018, 94, 163-174.	1.8	10
8	An automated time and hand motion analysis based on planar motion capture extended to a virtual environment. <i>Journal of Industrial Engineering International</i> , 2015, 11, 391-402.	1.8	8
9	Determination of elastic parameters of Si3N4 thin films by means of a numerical approach and bulge tests. <i>Thin Solid Films</i> , 2019, 672, 66-74.	1.8	8
10	Ripeness stage characterization of coffee fruits (<i>coffea arabica</i> L. var. Castillo) applying chromaticity maps obtained from digital images. <i>Materials Today: Proceedings</i> , 2021, 44, 1271-1278.	1.8	8
11	Mechanical and geometrical characterization of fruits <i>Coffea arabica</i> L. var. Colombia to simulate the ripening process by finite element analysis. <i>Engineering in Agriculture, Environment and Food</i> , 2019, 12, 367-377.	0.5	7
12	Vibrations Analysis of the Fruit-Pedicle System of <i>Coffea arabica</i> var. Castillo Using Time-Frequency and Wavelets Techniques. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9346.	2.5	5
13	Identification of stiffness variations in supporting substances of a human canine tooth with a bracket-beam-piezoelectric sensor and its electromechanical impedance. <i>Future Dental Journal</i> , 2017, 3, 15-21.	0.1	4
14	Numerical limit analysis of reinforced concrete slabs using a dual approach and conic programming. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1407-1423.	3.5	3
15	Finite Element Analysis of <i>Coffea arabica</i> L. var. Colombia Fruits for Selective Detachment Using Forced Vibrations. <i>Vibration</i> , 2018, 1, 207-219.	1.9	3
16	Electrical Performance of a Piezo-inductive Device for Energy Harvesting with Low-Frequency Vibrations. <i>Actuators</i> , 2019, 8, 55.	2.3	3
17	Vibration Shapes Identification Applying Eulerian Video Magnification on Coffee Fruits to Study the Selective Harvesting. , 2020, , .		3
18	Beam design for voice coil motors used for energy harvesting purpose with low frequency vibrations: A finite element analysis. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2016, 07, 1640001.	1.4	2

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19	Determinación del Método Óptimo de Operaciones de Ensamble Bimanual con el Algoritmo de Dijkstra (o de Caminos Mínimos). Información Tecnológica (discontinued), 2017, 28, 125-134.	0.3	2
20	Fracture Toughness Evaluation of a Cracked Au Thin Film by Applying a Finite Element Analysis and Bulge Test. Key Engineering Materials, 0, 827, 196-202.	0.4	2
21	Bio-structural monitoring of bone mineral alterations through electromechanical impedance measurements of a Piezo-device joined to a tooth. Biomedical Engineering Letters, 2020, 10, 603-617.	4.1	2
22	Modeling of elastoplastic behavior of freestanding square thin films under bulge testing. Acta Mechanica, 2021, 232, 2715.	2.1	2
23	Physical-mechanical characterization of coffee fruits Coffea arabica L. var. Castillo classified by a colorimetry approach. Materialia, 2022, 21, 101330.	2.7	2
24	Ripening stage classification of Coffea arabica L. var. Castillo using a Machine learning approach with the electromechanical impedance measurements of a contact device. Materials Today: Proceedings, 2022, , .	1.8	2
25	Geometric Modeling of the Valencia Orange (Citrus sinensis L.) by Applying Bézier Curves and an Image-Based CAD Approach. Agriculture (Switzerland), 2020, 10, 313.	3.1	1
26	Modeling of piezoelectric sensors adhesively bonded on trusses using a mathematical programming approach. Structural and Multidisciplinary Optimization, 2018, 58, 903-918.	3.5	0
27	Tolerance Analysis of Planar Mechanisms Based on a Residual Approach: A Complementary Method to DLM. Mathematical Problems in Engineering, 2019, 2019, 1-13.	1.1	0
28	Identification of Bone Density Changes Applying Impedance Spectroscopy with a Piezo-Device Coupled to a Human Tooth. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 52, 1-10.	0.5	0
29	ANÁLISIS DEL PROCESO DE DESHIDRATACIÓN DE CACAO PARA LA DISMINUCIÓN DEL TIEMPO DE SECADO (ANALYSIS OF THE COCOA DEHYDRATION PROCESS FOR REDUCING DRYING TIME). Revista EIA, 2013, 7, 53.	0.1	0
30	Electromechanical impedance measurements for bone health monitoring through teeth used as probes of a Piezo-device. Biomedical Physics and Engineering Express, 2021, 7, 015002.	1.2	0
31	Experimental Assessment of the Elastic Properties of Exocarpo Mesocarp and Beans of Coffea arabica L. var. Castillo Using Indentation Tests. Agriculture (Switzerland), 2022, 12, 502.	3.1	0