

# Arturo Baltazar

## List of Publications by Year in descending order

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33  
papers

859  
citations

687363

13  
h-index

526287

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of torsional guided wave generation using macro-fiber composite transducers and basis pursuit denoising. <i>Archive of Applied Mechanics</i> , 2021, 91, 1945-1958.	2.2	4
2	Design of a Pose and Force Controller for a Robotized Ultrasonic Probe Based on Neural Networks and Stochastic Gradient Approximation. <i>IEEE Sensors Journal</i> , 2021, 21, 6224-6233.	4.7	2
3	Atomization Control to Improve Soft Actuation Through Vaporization. <i>Frontiers in Robotics and AI</i> , 2021, 8, 747440.	3.2	1
4	Vibration Analysis of a Piezoelectric Ultrasonic Atomizer to Control Atomization Rate. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8350.	2.5	14
5	Chaotic search algorithm for detection of discontinuities using guided waves and beamforming data. <i>Measurement Science and Technology</i> , 2021, 32, 035105.	2.6	1
6	Fine Alignment and Contact Control of a Soft Semispherical Ultrasonic Probe Based on Its Frequency Signature. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	2.4	0
7	Beamforming of ultrasonic guided waves for defect search using chaos optimization. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3
8	A study of chaotic searching paths for their application in an ultrasonic scanner. <i>Engineering Applications of Artificial Intelligence</i> , 2018, 74, 271-279.	8.1	5
9	Optimizaci3n basados en caos para la b4squeda de objetivos. <i>Research in Computing Science</i> , 2018, 147, 291-300.	0.1	1
10	Chaos Optimization Applied to a Beamforming Algorithm for Source Location. <i>Lecture Notes in Computer Science</i> , 2018, , 332-343.	1.3	0
11	Structural Health Monitoring in Cylindrical Structures Using Helical Guided Wave Propagation. <i>Physics Procedia</i> , 2015, 70, 686-689.	1.2	12
12	Damage detection using the signal entropy of an ultrasonic sensor network. <i>Smart Materials and Structures</i> , 2015, 24, 075008.	3.5	24
13	Detection of damage in multiwire cables based on wavelet entropy evolution. <i>Smart Materials and Structures</i> , 2015, 24, 085036.	3.5	14
14	Characterization of Laser Generated Lamb Wave Modes after Interaction with a Thickness Reduction Discontinuity Using Ray Tracing Theory. <i>Experimental Mechanics</i> , 2014, 54, 743-752.	2.0	6
15	Damage detection in ACSR cables based on ultrasonic guided waves. <i>DYNA (Colombia)</i> , 2014, 81, 226.	0.4	9
16	Active sensing and damage detection using piezoelectric zinc oxide-based nanocomposites. <i>Nanotechnology</i> , 2013, 24, 185501.	2.6	39
17	Adaptive control for lift-off effect of EMAT based on IF-THEN rules and ultrasound RMS value. , 2013, , .		1
18	A study of guided wave propagation on a plate between two solid bodies with imperfect boundary conditions. <i>International Journal of Mechanical Sciences</i> , 2012, 63, 66-73.	6.7	22

#	ARTICLE	IF	CITATIONS
19	Pyroelectric and pyromagnetic coefficients of functionally graded multilayered multiferroic composites. <i>Acta Mechanica</i> , 2012, 223, 849-860.	2.1	19
20	On the use of ultrasonic spectral analysis for the characterization of artificially degraded API 5L X52 steel pipeline welded joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 227-234.	5.6	9
21	Force feedback controller based on fuzzy-rules emulated networks and Hertzian contact with ultrasound. <i>Mechanical Systems and Signal Processing</i> , 2012, 27, 534-550.	8.0	20
22	Multi-Input Fuzzy Rules Emulated Networks with a Hertzian Contact Force Sensor. , 2011, , .		0
23	Study of wave propagation in a multiwire cable to determine structural damage. <i>NDT and E International</i> , 2010, 43, 726-732.	3.7	55
24	Study of interfacial stiffness ratio of a rough surface in contact using a spring model. <i>Wear</i> , 2010, 268, 373-379.	3.1	98
25	Ultrasonic elastic modes in solid bars: An application of the plane wave expansion method. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 3503-3510.	1.1	6
26	Determination of surface mechanical properties using a hertzian contact and ultrasound sensor. , 2010, , .		6
27	Bayesian classification of ripening stages of tomato fruit using acoustic impact and colorimeter sensor data. <i>Computers and Electronics in Agriculture</i> , 2008, 60, 113-121.	7.7	75
28	Effect of methyl jasmonate on properties of intact tomato fruit monitored with destructive and nondestructive tests. <i>Journal of Food Engineering</i> , 2007, 80, 1086-1095.	5.2	14
29	Hysteretic linear and nonlinear acoustic responses from pressed interfaces. <i>International Journal of Solids and Structures</i> , 2006, 43, 6436-6452.	2.7	60
30	Quantitative ultrasonic characterization of environmental degradation of adhesive bonds. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 327-359.	2.6	22
31	Ultrasonic assessment of rough surface contact between solids from elastoplastic loading&#x2013;unloading hysteresis cycle. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1911-1934.	4.8	97
32	Inverse ultrasonic determination of imperfect interfaces and bulk properties of a layer between two solids. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 1424-1434.	1.1	72
33	On the relationship between ultrasonic and micromechanical properties of contacting rough surfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2002, 50, 1397-1416.	4.8	148