

Farhang Honarvar

List of Publications by Year in descending order

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61
papers

1,275
citations

430874

18
h-index

377865

34
g-index

63
all docs

63
docs citations

63
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of ultrasonic testing applications in additive manufacturing: Defect evaluation, material characterization, and process control. <i>Ultrasonics</i> , 2020, 108, 106227.	3.9	180
2	Application of statistical moments to bearing failure detection. <i>Applied Acoustics</i> , 1995, 44, 67-77.	3.3	134
3	Improving the time-resolution and signal-to-noise ratio of ultrasonic NDE signals. <i>Ultrasonics</i> , 2004, 41, 755-763.	3.9	107
4	Acoustic wave scattering from transversely isotropic cylinders. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 57-63.	1.1	76
5	Ultrasonic monitoring of erosion/corrosion thinning rates in industrial piping systems. <i>Ultrasonics</i> , 2013, 53, 1251-1258.	3.9	61
6	Wave propagation in transversely isotropic cylinders. <i>International Journal of Solids and Structures</i> , 2007, 44, 5236-5246.	2.7	59
7	New Statistical Moments for Diagnostics of Rolling Element Bearings. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1997, 119, 425-432.	2.2	58
8	Characterization of Grain Size and Yield Strength in AISI 301 Stainless Steel Using Ultrasonic Attenuation Measurements. <i>Journal of Nondestructive Evaluation</i> , 2012, 31, 191-196.	2.4	50
9	Nondestructive evaluation of cylindrical components by resonance acoustic spectroscopy. <i>Ultrasonics</i> , 1998, 36, 845-854.	3.9	44
10	A comparative evaluation of ultrasonic testing of AISI 316L welds made by shielded metal arc welding and gas tungsten arc welding processes. <i>Journal of Materials Processing Technology</i> , 2010, 210, 1043-1050.	6.3	37
11	Application of signal processing techniques to ultrasonic testing of plates by S0 Lamb wave mode. <i>NDT and E International</i> , 2011, 44, 131-137.	3.7	36
12	Resolution enhancement of ultrasonic defect signals for crack sizing. <i>NDT and E International</i> , 2012, 52, 37-50.	3.7	36
13	Multi-fault diagnosis of ball bearing using FFT, wavelet energy entropy mean and root mean square (RMS)., 2010, , .		30
14	Enhancement of ultrasonic images for sizing of defects by time-of-flight diffraction. <i>NDT and E International</i> , 2010, 43, 258-264.	3.7	29
15	Circumferential resonance modes of solid elastic cylinders excited by obliquely incident acoustic waves. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 102-113.	1.1	27
16	Scattering of a plane acoustic wave from a transversely isotropic cylinder encased in a solid elastic medium. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 1229-1236.	1.1	26
17	An alternative method for plotting dispersion curves. <i>Ultrasonics</i> , 2009, 49, 15-18.	3.9	26
18	Scattering of an obliquely incident plane wave from a circular clad rod. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 41-48.	1.1	23

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19	Nondestructive evaluation of explosively welded clad rods by resonance acoustic spectroscopy. <i>Ultrasonics</i> , 2003, 41, 369-375.	3.9	21
20	Characterization of semiconducting mixed electronic-ionic TeO ₂ V ₂ O ₅ Ag ₂ O glasses by employing ultrasonic measurements and Vicker's microhardness. <i>Journal of Alloys and Compounds</i> , 2017, 699, 601-610.	5.5	19
21	Multi-fault diagnosis of ball bearing based on features extracted from time-domain and multi-class support vector machine(MSVM). , 2010, , .		14
22	Correlation between helical surface waves and guided modes of an infinite immersed elastic cylinder. <i>Ultrasonics</i> , 2011, 51, 238-244.	3.9	13
23	Three Dimensional Characterization of Defects by Ultrasonic Time-of-Flight Diffraction (ToFD) Technique. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	2.4	12
24	Acoustic Scattering and Radiation Force Function Experienced by Functionally Graded Cylindrical Shells. <i>Journal of Mechanics</i> , 2011, 27, 227-243.	1.4	10
25	Nondestructive characterization of materials by inversion of acoustic scattering data. <i>Inverse Problems in Science and Engineering</i> , 2014, 22, 814-831.	1.2	10
26	Modeling the ultrasonic testing echoes by a combination of particle swarm optimization and Levenberg-Marquardt algorithms. <i>Measurement Science and Technology</i> , 2017, 28, 065001.	2.6	10
27	Knitted fabric relaxation by ultrasound and its characterization with yarn-pullout force. <i>Fibers and Polymers</i> , 2007, 8, 408-413.	2.1	8
28	Asymmetric and axisymmetric vibrations of finite transversely isotropic circular cylinders. <i>Acoustical Physics</i> , 2009, 55, 708-714.	1.0	8
29	An alternative approach for measuring the scattered acoustic pressure field of immersed single and multiple cylinders. <i>Acoustical Physics</i> , 2011, 57, 411-419.	1.0	8
30	Automated extraction of local defect resonance using the principal component analysis in lock-in ultrasonic vibrothermography. <i>Infrared Physics and Technology</i> , 2020, 105, 103204.	2.9	8
31	Multiple scattering of an obliquely incident plane acoustic wave from a grating of immersed cylindrical shells. <i>Applied Acoustics</i> , 2011, 72, 1-10.	3.3	7
32	Correlation between ultrasonic velocity and solutionising time in Rene 80 superalloy. <i>Materials Science and Technology</i> , 2011, 27, 1433-1435.	1.6	6
33	Lamb wave-based experimental and numerical studies for detection and sizing of corrosion damage in metallic plates. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 2107-2120.	2.1	6
34	Reflectivity Estimation Using Expectation Maximization Algorithm in Ultrasonic Nondestructive Evaluation. , 2009, , .		5
35	Elastodynamic solution for plane-strain response of functionally graded thick hollow cylinders by analytical method. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011, 32, 189-202.	3.6	5
36	Multiple scattering of an acoustic wave from a network of cylindrical rods encased in a solid viscoelastic medium. <i>Ultrasonics</i> , 2016, 64, 69-76.	3.9	5

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37	Nondestructive Evaluation of Clad Rods by Inversion of Acoustic Scattering Data. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	5
38	Nondestructive Characterization of Laser Powder Bed Fusion Components Using High-Frequency Phased Array Ultrasonic Testing. Journal of Materials Engineering and Performance, 2021, 30, 6766-6776.	2.5	5
39	Evaluation of the sensitivity of higher order modes cluster (HOMC) guided waves to plate defects. Applied Acoustics, 2022, 187, 108512.	3.3	5
40	Ultrasonic characterization of continuously cast rod by resonance acoustic spectroscopy. Nondestructive Testing and Evaluation, 2003, 19, 15-28.	2.1	4
41	Characterization of a cylindrical rod by inversion of acoustic scattering data. Ultrasonics, 2014, 54, 1559-1567.	3.9	4
42	Development of a mathematical model for propagation of ultrasonic waves in thick-walled cylinders in the presence of a thermal gradient – Case of axial scanning. Ultrasonics, 2022, 119, 106628.	3.9	4
43	Guided ultrasonic waves in composite cylinders. Mechanics of Composite Materials, 2007, 43, 277-288.	1.4	3
44	Measurement of elastic properties of AISI 52100 alloy steel by ultrasonic nondestructive methods. Journal of Mechanics of Materials and Structures, 2012, 7, 951-961.	0.6	3
45	An Investigation of the Relationship between Subsurface and Head Waves by Finite Element Modeling. Nondestructive Testing and Evaluation, 2016, 31, 319-330.	2.1	3
46	Investigation of the scattering of Lamb waves from a generalized circular cavity by using Poisson/Mindlin plate theories and numerical simulation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 152-170.	2.1	3
47	Finding the optimum polarization boundary line for enhancing the performance of clamped piezoelectric circular plates. Applied Mathematical Modelling, 2021, 91, 1141-1153.	4.2	3
48	RESONANCE ACOUSTIC SPECTROSCOPY. , 2006, , 351-409.		3
49	Response to –Representation of the displacement in terms of scalar functions for use in transversely isotropic materials–[J. Acoust. Soc. Am. 104, 3675 (1998)]. Journal of the Acoustical Society of America, 1998, 104, 3677-3677.	1.1	2
50	Notice of Retraction: Multi-fault diagnosis of ball bearing using intrinsic mode functions, Hilbert marginal spectrum and multi-class support vector machine. , 2010, , .		2
51	Investigation of the Performance of a Piezoelectric Ultrasonic Transducer by Finite Element Modeling. Russian Journal of Nondestructive Testing, 2021, 57, 269-280.	0.9	2
52	Contribution of Lamb wave modes in the formation of higher order modes cluster (HOMC) guided waves. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 3595-3605.	2.1	2
53	High frequency phased array ultrasonic testing of thermoplastic tensile specimens manufactured by fused filament fabrication with embedded defects. Additive Manufacturing, 2021, 47, 102335.	3.0	2
54	Scattering of acoustic waves from immersed transversely isotropic cylinders (L). Journal of the Acoustical Society of America, 2003, 114, 45-47.	1.1	1

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55	Wave propagation in transversely isotropic cylinders. , 0, , .		1
56	ULTRASONIC MEASUREMENT OF EROSIONâ€•CORROSION RATES IN INDUSTRIAL PIPING SYSTEMS. , 2011, , .		1
57	Estimation of erosion/corrosion rate in pipe walls by cross-correlation technique. , 2012, , .		1
58	Characterization of immersed transversely isotropic rods by inversion of acoustic scattering data. Journal of the Acoustical Society of America, 2015, 138, 2024-2033.	1.1	1
59	Lamb wave feature extraction using discrete wavelet transformation and Principal Component Analysis. Proceedings of SPIE, 2016, , .	0.8	1
60	A Statistical Method for Damage Detection in Hydraulic Components. , 0, , .		0
61	Nondestructive evaluation of a transversely isotropic cylinder encased in a solid elastic medium. AIP Conference Proceedings, 2000, , .	0.4	0