

# Farhang Honarvar

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Evaluation of the sensitivity of higher order modes cluster (HOMC) guided waves to plate defects. Applied Acoustics, 2022, 187, 108512.	3.3	5
4	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
5	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
6	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
7	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
8	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
9	A review of ultrasonic testing applications in additive manufacturing: Defect evaluation, material characterization, and process control. Ultrasonics, 2020, 108, 106227.	3.9	180
10	Automated extraction of local defect resonance using the principal component analysis in lock-in ultrasonic vibrothermography. Infrared Physics and Technology, 2020, 105, 103204.	2.9	8
11	Lamb wave-based experimental and numerical studies for detection and sizing of corrosion damage in metallic plates. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 2107-2120.	2.1	6
12	Nondestructive Evaluation of Clad Rods by Inversion of Acoustic Scattering Data. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	5
13	Three Dimensional Characterization of Defects by Ultrasonic Time-of-Flight Diffraction (ToFD) Technique. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	12
14	Modeling the ultrasonic testing echoes by a combination of particle swarm optimization and Levenberg–Marquardt algorithms. Measurement Science and Technology, 2017, 28, 065001.	2.6	10
15	Characterization of semiconducting mixed electronic-ionic TeO <sub>2</sub> V <sub>2</sub> O <sub>5</sub> Ag <sub>2</sub> O glasses by employing ultrasonic measurements and Vicker's microhardness. Journal of Alloys and Compounds, 2017, 699, 601-610.	5.5	19
16	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
17	Lamb wave feature extraction using discrete wavelet transformation and Principal Component Analysis. Proceedings of SPIE, 2016, , .	0.8	1
18	Multiple scattering of an acoustic wave from a network of cylindrical rods encased in a solid viscoelastic medium. Ultrasonics, 2016, 64, 69-76.	3.9	5

#	ARTICLE	IF	CITATIONS
19	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
20	Characterization of a cylindrical rod by inversion of acoustic scattering data. Ultrasonics, 2014, 54, 1559-1567.	3.9	4
21	Nondestructive characterization of materials by inversion of acoustic scattering data. Inverse Problems in Science and Engineering, 2014, 22, 814-831.	1.2	10
22	Ultrasonic monitoring of erosion/corrosion thinning rates in industrial piping systems. Ultrasonics, 2013, 53, 1251-1258.	3.9	61
23	Estimation of erosion/corrosion rate in pipe walls by cross-correlation technique. , 2012, , .		1
24	Characterization of Grain Size and Yield Strength in AISI 301 Stainless Steel Using Ultrasonic Attenuation Measurements. Journal of Nondestructive Evaluation, 2012, 31, 191-196.	2.4	50
25	Resolution enhancement of ultrasonic defect signals for crack sizing. NDT and E International, 2012, 52, 37-50.	3.7	36
26	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
27	Correlation between ultrasonic velocity and solutionising time in Rene 80 superalloy. Materials Science and Technology, 2011, 27, 1433-1435.	1.6	6
28	An alternative approach for measuring the scattered acoustic pressure field of immersed single and multiple cylinders. Acoustical Physics, 2011, 57, 411-419.	1.0	8
29	Elastodynamic solution for plane-strain response of functionally graded thick hollow cylinders by analytical method. Applied Mathematics and Mechanics (English Edition), 2011, 32, 189-202.	3.6	5
30	Application of signal processing techniques to ultrasonic testing of plates by S0 Lamb wave mode. NDT and E International, 2011, 44, 131-137.	3.7	36
31	Multiple scattering of an obliquely incident plane acoustic wave from a grating of immersed cylindrical shells. Applied Acoustics, 2011, 72, 1-10.	3.3	7
32	Correlation between helical surface waves and guided modes of an infinite immersed elastic cylinder. Ultrasonics, 2011, 51, 238-244.	3.9	13
33	Acoustic Scattering and Radiation Force Function Experienced by Functionally Graded Cylindrical Shells. Journal of Mechanics, 2011, 27, 227-243.	1.4	10
34	ULTRASONIC MEASUREMENT OF EROSION-CORROSION RATES IN INDUSTRIAL PIPING SYSTEMS. , 2011, , .		1
35	Enhancement of ultrasonic images for sizing of defects by time-of-flight diffraction. NDT and E International, 2010, 43, 258-264.	3.7	29
36	A comparative evaluation of ultrasonic testing of AISI 316L welds made by shielded metal arc welding and gas tungsten arc welding processes. Journal of Materials Processing Technology, 2010, 210, 1043-1050.	6.3	37

#	ARTICLE	IF	CITATIONS
37	Notice of Retraction: Multi-fault diagnosis of ball bearing using intrinsic mode functions, Hilbert marginal spectrum and multi-class support vector machine. , 2010, , .		2
38	Multi-fault diagnosis of ball bearing based on features extracted from time-domain and multi-class support vector machine(MSVM). , 2010, , .		14
39	Multi-fault diagnosis of ball bearing using FFT, wavelet energy entropy mean and root mean square (RMS). , 2010, , .		30
40	An alternative method for plotting dispersion curves. Ultrasonics, 2009, 49, 15-18.	3.9	26
41	Asymmetric and axisymmetric vibrations of finite transversely isotropic circular cylinders. Acoustical Physics, 2009, 55, 708-714.	1.0	8
42	Reflectivity Estimation Using Expectation Maximization Algorithm in Ultrasonic Nondestructive Evaluation. , 2009, , .		5
43	Wave propagation in transversely isotropic cylinders. International Journal of Solids and Structures, 2007, 44, 5236-5246.	2.7	59
44	Knitted fabric relaxation by ultrasound and its characterization with yarn-pullout force. Fibers and Polymers, 2007, 8, 408-413.	2.1	8
45	Guided ultrasonic waves in composite cylinders. Mechanics of Composite Materials, 2007, 43, 277-288.	1.4	3
46	RESONANCE ACOUSTIC SPECTROSCOPY. , 2006, , 351-409.		3
47	Improving the time-resolution and signal-to-noise ratio of ultrasonic NDE signals. Ultrasonics, 2004, 41, 755-763.	3.9	107
48	Nondestructive evaluation of explosively welded clad rods by resonance acoustic spectroscopy. Ultrasonics, 2003, 41, 369-375.	3.9	21
49	Circumferential resonance modes of solid elastic cylinders excited by obliquely incident acoustic waves. Journal of the Acoustical Society of America, 2003, 113, 102-113.	1.1	27
50	Ultrasonic characterization of continuously cast rod by resonance acoustic spectroscopy. Nondestructive Testing and Evaluation, 2003, 19, 15-28.	2.1	4
51	Scattering of acoustic waves from immersed transversely isotropic cylinders (L). Journal of the Acoustical Society of America, 2003, 114, 45-47.	1.1	1
52	Nondestructive evaluation of a transversely isotropic cylinder encased in a solid elastic medium. AIP Conference Proceedings, 2000, , .	0.4	0
53	Scattering of a plane acoustic wave from a transversely isotropic cylinder encased in a solid elastic medium. Journal of the Acoustical Society of America, 1999, 106, 1229-1236.	1.1	26
54	Nondestructive evaluation of cylindrical components by resonance acoustic spectroscopy. Ultrasonics, 1998, 36, 845-854.	3.9	44

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55	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
56	Scattering of an obliquely incident plane wave from a circular clad rod. Journal of the Acoustical Society of America, 1997, 102, 41-48.	1.1	23
57	New Statistical Moments for Diagnostics of Rolling Element Bearings. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1997, 119, 425-432.	2.2	58
58	Acoustic wave scattering from transversely isotropic cylinders. Journal of the Acoustical Society of America, 1996, 100, 57-63.	1.1	76
59	Application of statistical moments to bearing failure detection. Applied Acoustics, 1995, 44, 67-77.	3.3	134
60	A Statistical Method for Damage Detection in Hydraulic Components. , 0, , .		0
61	Wave propagation in transversely isotropic cylinders. , 0, , .		1