

C V Krishnamurthy

List of Publications by Year in descending order

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46
papers

753
citations

687363

13
h-index

526287

27
g-index

46
all docs

46
docs citations

46
times ranked

531
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of the primary anti-symmetric Lamb mode (A_{o1}) with symmetric delaminations: numerical and experimental studies. <i>Smart Materials and Structures</i> , 2009, 18, 085011.	3.5	105
2	Interaction of guided Lamb waves with an asymmetrically located delamination in a laminated composite plate. <i>Smart Materials and Structures</i> , 2010, 19, 065009.	3.5	83
3	Structural health monitoring of composite structures using Lamb wave tomography. <i>Smart Materials and Structures</i> , 2004, 13, N73-N79.	3.5	82
4	A single transmitter multi-receiver (STMR) PZT array for guided ultrasonic wave based structural health monitoring of large isotropic plate structures. <i>Smart Materials and Structures</i> , 2006, 15, 1190-1196.	3.5	72
5	A phase reconstruction algorithm for Lamb wave based structural health monitoring of anisotropic multilayered composite plates. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 872.	1.1	60
6	Genetic algorithm based reconstruction of the elastic moduli of orthotropic plates using an ultrasonic guided wave single-transmitter-multiple-receiver SHM array. <i>Smart Materials and Structures</i> , 2007, 16, 1639-1650.	3.5	53
7	Interaction of Lamb mode (A_o) with structural discontinuity and generation of "Turning modes" in a T-joint. <i>Ultrasonics</i> , 2011, 51, 586-595.	3.9	36
8	Simultaneous Estimation of Electrical and Thermal Properties of Isotropic Material from the Tone-Burst Eddy Current Thermography (TBET) Time-Resolved Temperature Data. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2213-2219.	2.1	27
9	Structural behavior of supercritical fluids under confinement. <i>Physical Review E</i> , 2018, 97, 012131.	2.1	23
10	Molecular dynamics of partially confined Lennard-Jones gases: Velocity autocorrelation function, mean squared displacement, and collective excitations. <i>Physical Review E</i> , 2018, 98, .	2.1	16
11	Structural Health Monitoring of Fiber-reinforced Composite Plates for Low-velocity Impact Damage using Ultrasonic Lamb Wave Tomography. <i>Structural Health Monitoring</i> , 2006, 5, 243-253.	7.5	15
12	Blind inversion method using Lamb waves for the complete elastic property characterization of anisotropic plates. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 761-771.	1.1	15
13	Design and Demonstration of a RADAR Gauge for <i>In-Situ</i> Level Measurement in Furnace. <i>IEEE Sensors Journal</i> , 2018, 18, 4081-4088.	4.7	14
14	Phased Array Ultrasonic Measurement of Fatigue Crack Growth Profiles in Stainless Steel Pipes. <i>Journal of Pressure Vessel Technology</i> , Transactions of the ASME, 2007, 129, 737-743.	0.6	12
15	Wave localized finite-difference-time-domain modelling of scattering of elastic waves within a polycrystalline material. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 3313-3326.	1.1	12
16	Sizing Cracks in Power Plant Components Using Array Based Ultrasonic Techniques. <i>Journal of Nondestructive Evaluation</i> , 2009, 28, 111-124.	2.4	11
17	Frenkel line crossover of confined supercritical fluids. <i>Scientific Reports</i> , 2019, 9, 14872.	3.3	11
18	Finite Difference Time Domain Simulation of Ultrasonic Phased Array Sector Scan for Imaging Cracks in Large Pipes, Elbows, and Tee Sections. <i>Research in Nondestructive Evaluation</i> , 2008, 19, 61-86.	1.1	9

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19	Numerical Modelling Methods for Ultrasonic Wave Propagation Through Polycrystalline Materials. Transactions of the Indian Institute of Metals, 2019, 72, 2923-2932.	1.5	8
20	Soft-wall induced structure and dynamics of partially confined supercritical fluids. Journal of Chemical Physics, 2019, 150, 111102.	3.0	7
21	Investigations on imaging and sizing of defects using ultrasonic phased array and the synthetic aperture focusing technique. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 384-390.	0.6	6
22	TECHNIQUE FOR IMAGING USING VIRTUAL ARRAY OF SOURCES (TIVAS). AIP Conference Proceedings, 2011, , .	0.4	6
23	Defect Sizing Simulation Studies for the Tone-Burst Eddy Current Thermography Using Genetic Algorithm Based Inversion. Journal of Nondestructive Evaluation, 2012, 31, 342-348.	2.4	6
24	Voronoi based microstructure modelling for elastic wave propagation. AIP Conference Proceedings, 2016, , .	0.4	6
25	Modeling and simulation of ultrasonic beam skewing in polycrystalline materials. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2018, 10, 70-78.	1.1	6
26	Structural Health Monitoring of Anisotropic Layered Composite Plates Using Guided Ultrasonic Lamb Wave Data. AIP Conference Proceedings, 2004, , .	0.4	5
27	Simultaneous measurement of ultrasonic longitudinal wave velocities and thicknesses of a two layered media in the absence of an interface echo. Review of Scientific Instruments, 2010, 81, 105101.	1.3	5
28	Improved Imaging of Fatigue Crack Profile in Thick Cruciform Samples Using Ultrasonic Phased Array Models. Journal of Pressure Vessel Technology, Transactions of the ASME, 2010, 132, .	0.6	5
29	Morphology dependent resonance modes in highly porous TiO ₂ microspheres. Journal of Applied Physics, 2018, 124, 133102.	2.5	5
30	Solid solutions of alkali halide compounds: A new model. Physical Review B, 1986, 34, 8922-8925.	3.2	3
31	Inspection Using Shear Wave Time of Flight Diffraction (S-TOFD) Technique. AIP Conference Proceedings, 2006, , .	0.4	3
32	Simultonic: A Simulation Tool for Ultrasonic Inspection. AIP Conference Proceedings, 2006, , .	0.4	3
33	A simulation study on the impact echo array technique for concrete structure NDT. Nondestructive Testing and Evaluation, 2006, 21, 123-140.	2.1	3
34	GLOBAL MATERIAL CHARACTERIZATION OF COMPOSITE STRUCTURES USING LAMB WAVE STMR ARRAY TECHNIQUE. , 2010, , .		3
35	NUMERICAL SIMULATION OF PULSED MEANDER COIL EMAT. AIP Conference Proceedings, 2010, , .	0.4	3
36	Non-contact <i>in situ</i> microwave material measurements for high temperature process monitoring. Review of Scientific Instruments, 2019, 90, 034702.	1.3	3

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37	Solid solutions of alkali halide compounds. I. Configurational and vibrational contributions. Physical Review B, 1991, 43, 14206-14218.	3.2	2
38	Ultrasonic Benchmark Problem 2002: Measurements and Numerical Experiments. AIP Conference Proceedings, 2004, , .	0.4	2
39	Plate Waves Structural Health Monitoring of Composite Structures. AIP Conference Proceedings, 2005, , .	0.4	2
40	Elastic Constants Inversion from Ultrasonic Transmission Spectra Obtained Using a Wide Aperture PVDF Sensor. AIP Conference Proceedings, 2006, , .	0.4	2
41	HUYGEN-FRESNEL DIFFRACTION MODEL (H-FDM) FOR THE SIMULATION OF ULTRASONIC TIME-OF-FLIGHT DIFFRACTION TECHNIQUE IN 2D GEOMETRIES. , 2010, , .		2
42	Algorithm for Health Monitoring of Anisotropic Plates Using Flexible Ultrasonic Patches. AIP Conference Proceedings, 2007, , .	0.4	1
43	SIMULTANEOUS ESTIMATION OF ELECTRICAL AND THERMAL PROPERTIES OF MATERIAL FROM THE TONE-BURST EDDY CURRENT THERMOGRAPHY (TBET) TIME-TEMPERATURE DATA. , 2010, , .		0
44	INTERACTION OF GUIDED LAMB WAVES WITH DELAMINATIONS AND DISCONTINUITIES IN COMPOSITE PLATE-LIKE STRUCTURES. , 2011, , .		0
45	Inversion of tone burst eddy current thermography data for defect sizing - A simulation study. , 2013, , .		0
46	Effects of polycrystalline birefringent grains on the morphology dependent resonance modes of a spherical resonator. Journal of Applied Physics, 2019, 126, 053102.	2.5	0