

# 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	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
2	Frenkel line crossover of confined supercritical fluids. Scientific Reports, 2019, 9, 14872.	3.3	11
3	Numerical Modelling Methods for Ultrasonic Wave Propagation Through Polycrystalline Materials. Transactions of the Indian Institute of Metals, 2019, 72, 2923-2932.	1.5	8
4	Soft-wall induced structure and dynamics of partially confined supercritical fluids. Journal of Chemical Physics, 2019, 150, 111102.	3.0	7
5	Non-contact <i>in situ</i> microwave material measurements for high temperature process monitoring. Review of Scientific Instruments, 2019, 90, 034702.	1.3	3
6	Structural behavior of supercritical fluids under confinement. Physical Review E, 2018, 97, 012131.	2.1	23
7	Design and Demonstration of a RADAR Gauge for <i>In-Situ</i> Level Measurement in Furnace. IEEE Sensors Journal, 2018, 18, 4081-4088.	4.7	14
8	Molecular dynamics of partially confined Lennard-Jones gases: Velocity autocorrelation function, mean squared displacement, and collective excitations. Physical Review E, 2018, 98, .	2.1	16
9	Wave localized finite-difference-time-domain modelling of scattering of elastic waves within a polycrystalline material. Journal of the Acoustical Society of America, 2018, 144, 3313-3326.	1.1	12
10	Morphology dependent resonance modes in highly porous TiO <sub>2</sub> microspheres. Journal of Applied Physics, 2018, 124, 133102.	2.5	5
11	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
12	Voronoi based microstructure modelling for elastic wave propagation. AIP Conference Proceedings, 2016, , .	0.4	6
13	Inversion of tone burst eddy current thermography data for defect sizing - A simulation study. , 2013, , .		0
14	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
15	Simultaneous Estimation of Electrical and Thermal Properties of Isotropic Material from the Tone-Burst Eddy Current Thermography (TBET) Time-Dependent Temperature Data. IEEE Transactions on Magnetics, 2011, 47, 2213-2219.	2.1	27
16	Interaction of Lamb mode (A <sub>0</sub> ) with structural discontinuity and generation of "Turning modes" in a T-joint. Ultrasonics, 2011, 51, 586-595.	3.9	36
17	TECHNIQUE FOR IMAGING USING VIRTUAL ARRAY OF SOURCES (TIVAS). AIP Conference Proceedings, 2011, , .	0.4	6
18	INTERACTION OF GUIDED LAMB WAVES WITH DELAMINATIONS AND DISCONTINUITIES IN COMPOSITE PLATE-LIKE STRUCTURES. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
19	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
20	HUYGEN-FRESNEL DIFFRACTION MODEL (H-FDM) FOR THE SIMULATION OF ULTRASONIC TIME-OF-FLIGHT DIFFRACTION TECHNIQUE IN 2D GEOMETRIES. , 2010, , .		2
21	SIMULTANEOUS ESTIMATION OF ELECTRICAL AND THERMAL PROPERTIES OF MATERIAL FROM THE TONE-BURST EDDY CURRENT THERMOGRAPHY (TBET) TIME-TEMPERATURE DATA. , 2010, , .		0
22	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
23	GLOBAL MATERIAL CHARACTERIZATION OF COMPOSITE STRUCTURES USING LAMB WAVE STMR ARRAY TECHNIQUE. , 2010, , .		3
24	NUMERICAL SIMULATION OF PULSED MEANDER COIL EMAT. AIP Conference Proceedings, 2010, , .	0.4	3
25	Interaction of guided Lamb waves with an asymmetrically located delamination in a laminated composite plate. Smart Materials and Structures, 2010, 19, 065009.	3.5	83
26	Blind inversion method using Lamb waves for the complete elastic property characterization of anisotropic plates. Journal of the Acoustical Society of America, 2009, 125, 761-771.	1.1	15
27	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
28	Interaction of the primary anti-symmetric Lamb mode ( $A_{o<sub>o</sub>}$ ) with symmetric delaminations: numerical and experimental studies. Smart Materials and Structures, 2009, 18, 085011.	3.5	105
29	Sizing Cracks in Power Plant Components Using Array Based Ultrasonic Techniques. Journal of Nondestructive Evaluation, 2009, 28, 111-124.	2.4	11
30	Finite Difference Time Domain Simulation of Ultrasonic Phased Array Sector Scan for Imaging Cracks in Large Pipes, Elbows, and Tee Sections. Research in Nondestructive Evaluation, 2008, 19, 61-86.	1.1	9
31	Genetic algorithm based reconstruction of the elastic moduli of orthotropic plates using an ultrasonic guided wave single-transmitter-multiple-receiver SHM array. Smart Materials and Structures, 2007, 16, 1639-1650.	3.5	53
32	Algorithm for Health Monitoring of Anisotropic Plates Using Flexible Ultrasonic Patches. AIP Conference Proceedings, 2007, , .	0.4	1
33	Phased Array Ultrasonic Measurement of Fatigue Crack Growth Profiles in Stainless Steel Pipes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2007, 129, 737-743.	0.6	12
34	A single transmitter multi-receiver (STMR) PZT array for guided ultrasonic wave based structural health monitoring of large isotropic plate structures. Smart Materials and Structures, 2006, 15, 1190-1196.	3.5	72
35	Elastic Constants Inversion from Ultrasonic Transmission Spectra Obtained Using a Wide Aperture PVDF Sensor. AIP Conference Proceedings, 2006, , .	0.4	2
36	Inspection Using Shear Wave Time of Flight Diffraction (S-TOFD) Technique. AIP Conference Proceedings, 2006, , .	0.4	3

#	ARTICLE	IF	CITATIONS
37	Simultonic: A Simulation Tool for Ultrasonic Inspection. AIP Conference Proceedings, 2006, , .	0.4	3
38	A phase reconstruction algorithm for Lamb wave based structural health monitoring of anisotropic multilayered composite plates. Journal of the Acoustical Society of America, 2006, 119, 872.	1.1	60
39	A simulation study on the impact echo array technique for concrete structure NDT. Nondestructive Testing and Evaluation, 2006, 21, 123-140.	2.1	3
40	Structural Health Monitoring of Fiber-reinforced Composite Plates for Low-velocity Impact Damage using Ultrasonic Lamb Wave Tomography. Structural Health Monitoring, 2006, 5, 243-253.	7.5	15
41	Plate Waves Structural Health Monitoring of Composite Structures. AIP Conference Proceedings, 2005, , .	0.4	2
42	Ultrasonic Benchmark Problem 2002: Measurements and Numerical Experiments. AIP Conference Proceedings, 2004, , .	0.4	2
43	Structural health monitoring of composite structures using Lamb wave tomography. Smart Materials and Structures, 2004, 13, N73-N79.	3.5	82
44	Structural Health Monitoring of Anisotropic Layered Composite Plates Using Guided Ultrasonic Lamb Wave Data. AIP Conference Proceedings, 2004, , .	0.4	5
45	Solid solutions of alkali halide compounds. I. Configurational and vibrational contributions. Physical Review B, 1991, 43, 14206-14218.	3.2	2
46	Solid solutions of alkali halide compounds: A new model. Physical Review B, 1986, 34, 8922-8925.	3.2	3