

# Vinay S Dayal

## List of Publications by Year in descending order

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26  
papers

309  
citations

1307594

7  
h-index

888059

17  
g-index

26  
all docs

26  
docs citations

26  
times ranked

203  
citing authors

#	ARTICLE	IF	CITATIONS
1	Leaky Lamb waves in an anisotropic plate. I: An exact solution and experiments. Journal of the Acoustical Society of America, 1989, 85, 2268-2276.	1.1	123
2	Leaky Lamb waves in an anisotropic plate. II: Nondestructive evaluation of matrix cracks in fiber-reinforced composites. Journal of the Acoustical Society of America, 1991, 89, 1590-1598.	1.1	46
3	Longitudinal waves in homogeneous anisotropic cylindrical bars immersed in fluid. Journal of the Acoustical Society of America, 1993, 93, 1249-1255.	1.1	26
4	The interaction of Rayleigh waves with delaminations in composite laminates. Journal of the Acoustical Society of America, 2014, 135, 2646-2653.	1.1	23
5	Detection and Characterization of Waviness in Unidirectional GFRP Using Rayleigh Wave Air Coupled Ultrasonic Testing (RAC-UT). Research in Nondestructive Evaluation, 2013, 24, 191-201.	1.1	18
6	Influence of fiber orientation on the inherent acoustic nonlinearity in carbon fiber reinforced composites. Journal of the Acoustical Society of America, 2015, 137, 617-624.	1.1	10
7	Nondestructive evaluation of helicopter rotor blades using guided Lamb modes. Ultrasonics, 2014, 54, 826-833.	3.9	8
8	Detection of in-plane fiber waviness in composite laminates using guided Lamb modes. AIP Conference Proceedings, 2014, , .	0.4	7
9	Coda wave interferometry for the measurement of thermally induced ultrasonic velocity variations in CFRP laminates. AIP Conference Proceedings, 2016, , .	0.4	5
10	Damage Detection in a Multi-Layered, Multi-Material Composite Using Air-Coupled Ultrasonic Resonance Imaging. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	5
11	Review of ultrasonic testing for NDE of composite wind turbine blades. AIP Conference Proceedings, 2019, , .	0.4	5
12	Ultrasonic Newton's rings. Applied Physics Letters, 1992, 60, 1169-1171.	3.3	4
13	Conceptual Design of Unpressurized Shelters on Lunar Surface. Journal of Aerospace Engineering, 2009, 22, 396-402.	1.4	4
14	Finite element simulation of core inspection in helicopter rotor blades using guided waves. Ultrasonics, 2015, 62, 126-135.	3.9	4
15	Destructive and Nondestructive Evaluation of Dry Spots in Thick Glass Fiber Reinforced Composites. Applied Composite Materials, 2019, 26, 693-708.	2.5	4
16	Influence of laminate sequence and fabric type on the inherent acoustic nonlinearity in carbon fiber reinforced composites. Journal of the Acoustical Society of America, 2016, 139, 2310-2319.	1.1	3
17	Buckling of Aluminum Honeycomb Core and Its Effect on Ultrasonic Velocity. AIP Conference Proceedings, 2004, , .	0.4	2
18	Inspection of helicopter rotor blades with the help of guided waves and "turning modes": Experimental and finite element analysis. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
19	Rayleigh wave interaction and mode conversion in a delamination. , 2014, , .		2
20	Inherent acoustic nonlinearity of fiber reinforced composites. , 2014, , .		2
21	Conceptual Design of Pressurized Shelters on the Lunar Surface. Journal of Aerospace Engineering, 2014, 27, 33-39.	1.4	2
22	Development of composite calibration standard for quantitative NDE by ultrasound and thermography. AIP Conference Proceedings, 2018, , .	0.4	2
23	Architecture for a Mobile Lunar Base Using Lunar Materials. AIP Conference Proceedings, 2006, , .	0.4	1
24	Micro-crack detection in CFRP laminates using coda wave NDE. AIP Conference Proceedings, 2018, , .	0.4	1
25	Inspection of spar-core bond in helicopter rotor blades using finite element analysis. , 2015, , .		0
26	Air-Coupled Ultrasonic Resonance Imaging of Hexagonal SiC and Alumina Tiles. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	0