

Steven Delrue

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

534
citations

687363

13
h-index

642732

23
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35
all docs

35
docs citations

35
times ranked

446
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional finite element simulation of closed delaminations in composite materials. <i>Ultrasonics</i> , 2012, 52, 315-324.	3.9	66
2	Non-destructive ultrasonic examination of root defects in friction stir welded butt-joints. <i>NDT and E International</i> , 2016, 80, 23-34.	3.7	51
3	Detection and Characterization of Local Defect Resonances Arising from Delaminations and Flat Bottom Holes. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	2.4	46
4	Linear and Nonlinear Guided Wave Imaging of Impact Damage in CFRP Using a Probabilistic Approach. <i>Materials</i> , 2016, 9, 901.	2.9	44
5	On the potential of demand-controlled ventilation system to enhance indoor air quality and thermal condition in Australian school classrooms. <i>Energy and Buildings</i> , 2021, 238, 110838.	6.7	42
6	Two dimensional modeling of elastic wave propagation in solids containing cracks with rough surfaces and friction – Part II: Numerical implementation. <i>Ultrasonics</i> , 2018, 82, 19-30.	3.9	39
7	Applying a nonlinear, pitch-catch, ultrasonic technique for the detection of kissing bonds in friction stir welds. <i>Ultrasonics</i> , 2016, 68, 71-79.	3.9	32
8	Two dimensional modeling of elastic wave propagation in solids containing cracks with rough surfaces and friction – Part I: Theoretical background. <i>Ultrasonics</i> , 2018, 82, 11-18.	3.9	32
9	Two-dimensional simulation of the single-sided air-coupled ultrasonic pitch-catch technique for non-destructive testing. <i>Ultrasonics</i> , 2010, 50, 188-196.	3.9	28
10	The Ultrasonic Polar Scan for Composite Characterization and Damage Assessment: Past, Present and Future. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 58.	2.5	22
11	Non-Destructive Evaluation of Kissing Bonds using Local Defect Resonance (LDR) Spectroscopy: A Simulation Study. <i>Physics Procedia</i> , 2015, 70, 648-651.	1.2	16
12	Numerical study of the Time-of-Flight Pulsed Ultrasonic Polar Scan for the determination of the full elasticity tensor of orthotropic plates. <i>Composite Structures</i> , 2017, 180, 29-40.	5.8	16
13	Visualization of Delaminations in Composite Structures Using a Baseline-Free, Sparse Array Imaging Technique Based on Nonlinear Lamb Wave Propagation. <i>Acta Acustica United With Acustica</i> , 2017, 103, 987-997.	0.8	15
14	Detection of defect parameters using nonlinear air-coupled emission by ultrasonic guided waves at contact acoustic nonlinearities. <i>Ultrasonics</i> , 2015, 63, 147-154.	3.9	14
15	Simulation study of a chaotic cavity transducer based virtual phased array used for focusing in the bulk of a solid material. <i>Ultrasonics</i> , 2016, 67, 151-159.	3.9	13
16	Theoretical calculation of the instantaneous friction-induced energy losses in arbitrarily excited axisymmetric mechanical contact systems. <i>International Journal of Solids and Structures</i> , 2019, 158, 268-276.	2.7	13
17	Application of a Probabilistic Algorithm for Ultrasonic Guided Wave Imaging of Carbon Composites. <i>Physics Procedia</i> , 2015, 70, 664-667.	1.2	10
18	Nondestructive Ultrasonic Inspection of Friction Stir Welds. <i>Physics Procedia</i> , 2015, 70, 660-663.	1.2	8

#	ARTICLE	IF	CITATIONS
19	Simulation Study of the Localization of a Near-Surface Crack Using an Air-Coupled Ultrasonic Sensor Array. <i>Sensors</i> , 2017, 17, 930.	3.8	7
20	Modeling nonlinear response from distributed damage and kissing bonds. <i>Proceedings of Meetings on Acoustics</i> , 2012, , .	0.3	3
21	First simulations of the candy can concept for high amplitude non-contact excitation. <i>Proceedings of Meetings on Acoustics</i> , 2012, , .	0.3	3
22	Simulation of a circular phased array for a portable ultrasonic polar scan. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
23	Modular Air-Coupled Ultrasonic Multichannel System for Inline NDT. <i>Physics Procedia</i> , 2015, 70, 519-522.	1.2	2
24	Matching Spectroscopy with the Ultrasonic Polar Scan for Advanced NDT of Composites. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	2
25	Pulse-Inversion Chirp-Coded Weld Harmonic Imaging (PI-CWHI) of Friction Stir Welded Butt-Joint. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	2.4	1
26	A damped forward EMI model for a horizontally stratified earth. <i>Exploration Geophysics</i> , 2020, 51, 422-433.	1.1	1
27	Qualitative analysis of a 3D multiphysics model for nonlinear ultrasonics and vibration induced heating at closed defects. <i>Research in Nondestructive Evaluation</i> , 2022, 33, 17-32.	1.1	1
28	Nonlinear spectroscopy of closed delaminations and surface breaking cracks: Finite element simulations of clapping and nonlinear air-coupled emission. , 2012, , .		0
29	Towards a Phased Array Based Ultrasonic Polar Scan: Simulation Study and Comparison with Plane Wave Results. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
30	3D modeling for acoustic waves and vibrations in solid structures with frictional cracks. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	0
31	Optimal Design Parameters for a Phased-Array-Based Ultrasonic Polar Scan. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2781-2793.	3.0	0