## Steven Delrue

List of Publications by Year in descending order

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687363 642732 31 534 13 23 citations h-index g-index papers 35 35 35 446 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Qualitative analysis of a 3D multiphysics model for nonlinear ultrasonics and vibration induced heating at closed defects. Research in Nondestructive Evaluation, 2022, 33, 17-32.	1.1	1
2	On the potential of demand-controlled ventilation system to enhance indoor air quality and thermal condition in Australian school classrooms. Energy and Buildings, 2021, 238, 110838.	6.7	42
3	Optimal Design Parameters for a Phased-Array-Based Ultrasonic Polar Scan. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2781-2793.	3.0	O
4	A damped forward EMI model for a horizontally stratified earth. Exploration Geophysics, 2020, 51, 422-433.	1,1	1
5	3D modeling for acoustic waves and vibrations in solid structures with frictional cracks. Proceedings of Meetings on Acoustics, 2019, , .	0.3	O
6	Theoretical calculation of the instantaneous friction-induced energy losses in arbitrarily excited axisymmetric mechanical contact systems. International Journal of Solids and Structures, 2019, 158, 268-276.	2.7	13
7	Simulation of a circular phased array for a portable ultrasonic polar scan. AIP Conference Proceedings, 2018, , .	0.4	3
8	Two dimensional modeling of elastic wave propagation in solids containing cracks with rough surfaces and friction $\hat{a} \in \text{Part II}$ : Numerical implementation. Ultrasonics, 2018, 82, 19-30.	3.9	39
9	Two dimensional modeling of elastic wave propagation in solids containing cracks with rough surfaces and friction – Part I: Theoretical background. Ultrasonics, 2018, 82, 11-18.	3.9	32
10	Matching Spectroscopy with the Ultrasonic Polar Scan for Advanced NDT of Composites. Proceedings (mdpi), 2018, 2, .	0.2	2
11	Towards a Phased Array Based Ultrasonic Polar Scan: Simulation Study and Comparison with Plane Wave Results. Proceedings (mdpi), 2018, 2, .	0.2	O
12	Detection and Characterization of Local Defect Resonances Arising from Delaminations and Flat Bottom Holes. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	46
13	Pulse-Inversion Chirp-Coded Weld Harmonic Imaging (PI-CWHI) of Friction Stir Welded Butt-Joint. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	1
14	Numerical study of the Time-of-Flight Pulsed Ultrasonic Polar Scan for the determination of the full elasticity tensor of orthotropic plates. Composite Structures, 2017, 180, 29-40.	5.8	16
15	Simulation Study of the Localization of a Near-Surface Crack Using an Air-Coupled Ultrasonic Sensor Array. Sensors, 2017, 17, 930.	3.8	7
16	Visualization of Delaminations in Composite Structures Using a Baseline-Free, Sparse Array Imaging Technique Based on Nonlinear Lamb Wave Propagation. Acta Acustica United With Acustica, 2017, 103, 987-997.	0.8	15
17	The Ultrasonic Polar Scan for Composite Characterization and Damage Assessment: Past, Present and Future. Applied Sciences (Switzerland), 2016, 6, 58.	2.5	22
18	Linear and Nonlinear Guided Wave Imaging of Impact Damage in CFRP Using a Probabilistic Approach. Materials, 2016, 9, 901.	2.9	44

#	Article	IF	CITATIONS
19	Applying a nonlinear, pitch-catch, ultrasonic technique for the detection of kissing bonds in friction stir welds. Ultrasonics, 2016, 68, 71-79.	3.9	32
20	Non-destructive ultrasonic examination of root defects in friction stir welded butt-joints. NDT and E International, 2016, 80, 23-34.	3.7	51
21	Simulation study of a chaotic cavity transducer based virtual phased array used for focusing in the bulk of a solid material. Ultrasonics, 2016, 67, 151-159.	3.9	13
22	Non-Destructive Evaluation of Kissing Bonds using Local Defect Resonance (LDR) Spectroscopy: A Simulation Study. Physics Procedia, 2015, 70, 648-651.	1.2	16
23	Modular Air-Coupled Ultrasonic Multichannel System for Inline NDT. Physics Procedia, 2015, 70, 519-522.	1.2	2
24	Application of a Probabilistic Algorithm for Ultrasonic Guided Wave Imaging of Carbon Composites. Physics Procedia, 2015, 70, 664-667.	1.2	10
25	Detection of defect parameters using nonlinear air-coupled emission by ultrasonic guided waves at contact acoustic nonlinearities. Ultrasonics, 2015, 63, 147-154.	3.9	14
26	Nondestructive Ultrasonic Inspection of Friction Stir Welds. Physics Procedia, 2015, 70, 660-663.	1.2	8
27	Nonlinear spectroscopy of closed delaminations and surface breaking cracks: Finite element simulations of clapping and nonlinear air-coupled emission. , 2012, , .		O
28	Modeling nonlinear response from distributed damage and kissing bonds. Proceedings of Meetings on Acoustics, $2012$ , , .	0.3	3
29	First simulations of the candy can concept for high amplitude non-contact excitation. Proceedings of Meetings on Acoustics, $2012$ , , .	0.3	3
30	Three-dimensional finite element simulation of closed delaminations in composite materials. Ultrasonics, 2012, 52, 315-324.	3.9	66
31	Two-dimensional simulation of the single-sided air-coupled ultrasonic pitch-catch technique for non-destructive testing. Ultrasonics, 2010, 50, 188-196.	3.9	28