David Ia Lines

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1695338/publications.pdf

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24	222	1040056	1125743
papers	citations	9	13
		h-index	g-index

25	25	25	166
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrasonic phased array inspection of a Wire + Arc Additive Manufactured (WAAM) sample with intentionally embedded defects. Additive Manufacturing, 2019, 29, 100806.	3.0	41
2	Continuous monitoring of an intentionally-manufactured crack using an automated welding and in-process inspection system. Materials and Design, 2020, 191, 108655.	7.0	27
3	Sensor-Enabled Multi-Robot System for Automated Welding and In-Process Ultrasonic NDE. Sensors, 2021, 21, 5077.	3.8	22
4	In-process calibration of a non-destructive testing system used for in-process inspection of multi-pass welding. Materials and Design, 2020, 195, 108981.	7.0	18
5	Investigating the effect of residual stress on hydrogen cracking in multi-pass robotic welding through process compatible non-destructive testing. Journal of Manufacturing Processes, 2021, 63, 80-87.	5.9	15
6	Generalised bisection method for optimum ultrasonic ray tracing and focusing in multi-layered structures. Ultrasonics, 2021, 111, 106330.	3.9	13
7	Flow Velocity Measurement Using a Spatial Averaging Method with Two-Dimensional Flexural Ultrasonic Array Technology. Sensors, 2019, 19, 4786.	3.8	12
8	Model-assisted ultrasonic calibration using intentionally embedded defects for in-process weld inspection. Materials and Design, 2021, 198, 109330.	7.0	12
9	Fast ultrasonic phased array inspection of complex geometries delivered through robotic manipulators and high speed data acquisition instrumentation. , 2016, , .		11
10	Multi-layer ultrasonic imaging of as-built Wire + Arc Additive Manufactured components. Additive Manufacturing, 2021, 48, 102398.	3.0	10
11	High-temperature in-process inspection followed by 96-h robotic inspection of intentionally manufactured hydrogen crack in multi-pass robotic welding. International Journal of Pressure Vessels and Piping, 2021, 189, 104288.	2.6	8
12	Collaborative Robotic Wire + Arc Additive Manufacture and Sensor-Enabled In-Process Ultrasonic Non-Destructive Evaluation. Sensors, 2022, 22, 4203.	3.8	7
13	Two-dimensional flexural ultrasonic phased array for flow measurement. , 2017, , .		5
14	Development of a phased array ultrasound roller probe for inspection of wire + arc additive manufactured components. Journal of Manufacturing Processes, 2022, 80, 765-774.	5.9	5
15	Design of flexural ultrasonic phased array for fluid-coupled applications. , 2016, , .		4
16	Evaluation of Coded Excitations for Autonomous Airborne Ultrasonic Inspection. , 2019, , .		3
17	A Novel Mathematical Model for Transit-time Ultrasonic Flow Measurement. , 2019, , .		3
18	Increasing the speed of automated ultrasonic inspection of as-built additive manufacturing components by the adoption of virtual source aperture. Materials and Design, 2022, 220, 110822.	7.0	3

#	Article	IF	Citations
19	Using Coded Excitation to maintain Signal to Noise for FMC+TFM on Attenuating Materials. , 2019, , .		2
20	Development of a 1-D Linear Phased Ultrasonic Array for Intravascular Sonoporation. , 2019, , .		1
21	Development of a hybrid custom / commercial multi-channel, high-frequency transmit pulser and beamformer system. , 2015, , .		0
22	Two-dimensional flexural ultrasonic phased array for flow measurement. , 2017, , .		0
23	Enhanced Modelling of a 1-D Phased Ultrasonic Array for Intracorporeal Sonoporation. , 2020, , .		0
24	A Model-Based Study of Transmit-Receive Longitudinal Arrays for Inspection of Subsurface Defects. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2020, 3, .	0.9	0