

# David Ia Lines

## List of Publications by Year in descending order

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24  
papers

222  
citations

1040056

9  
h-index

1125743

13  
g-index

25  
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docs citations

25  
times ranked

166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collaborative Robotic Wire + Arc Additive Manufacture and Sensor-Enabled In-Process Ultrasonic Non-Destructive Evaluation. <i>Sensors</i> , 2022, 22, 4203.	3.8	7
2	Increasing the speed of automated ultrasonic inspection of as-built additive manufacturing components by the adoption of virtual source aperture. <i>Materials and Design</i> , 2022, 220, 110822.	7.0	3
3	Development of a phased array ultrasound roller probe for inspection of wire + arc additive manufactured components. <i>Journal of Manufacturing Processes</i> , 2022, 80, 765-774.	5.9	5
4	Investigating the effect of residual stress on hydrogen cracking in multi-pass robotic welding through process compatible non-destructive testing. <i>Journal of Manufacturing Processes</i> , 2021, 63, 80-87.	5.9	15
5	Generalised bisection method for optimum ultrasonic ray tracing and focusing in multi-layered structures. <i>Ultrasonics</i> , 2021, 111, 106330.	3.9	13
6	Model-assisted ultrasonic calibration using intentionally embedded defects for in-process weld inspection. <i>Materials and Design</i> , 2021, 198, 109330.	7.0	12
7	High-temperature in-process inspection followed by 96-h robotic inspection of intentionally manufactured hydrogen crack in multi-pass robotic welding. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 189, 104288.	2.6	8
8	Sensor-Enabled Multi-Robot System for Automated Welding and In-Process Ultrasonic NDE. <i>Sensors</i> , 2021, 21, 5077.	3.8	22
9	Multi-layer ultrasonic imaging of as-built Wire + Arc Additive Manufactured components. <i>Additive Manufacturing</i> , 2021, 48, 102398.	3.0	10
10	Enhanced Modelling of a 1-D Phased Ultrasonic Array for Intracorporeal Sonoporation. , 2020, , .		0
11	Continuous monitoring of an intentionally-manufactured crack using an automated welding and in-process inspection system. <i>Materials and Design</i> , 2020, 191, 108655.	7.0	27
12	In-process calibration of a non-destructive testing system used for in-process inspection of multi-pass welding. <i>Materials and Design</i> , 2020, 195, 108981.	7.0	18
13	A Model-Based Study of Transmit-Receive Longitudinal Arrays for Inspection of Subsurface Defects. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2020, 3, .	0.9	0
14	Ultrasonic phased array inspection of a Wire + Arc Additive Manufactured (WAAM) sample with intentionally embedded defects. <i>Additive Manufacturing</i> , 2019, 29, 100806.	3.0	41
15	Evaluation of Coded Excitations for Autonomous Airborne Ultrasonic Inspection. , 2019, , .		3
16	Development of a 1-D Linear Phased Ultrasonic Array for Intravascular Sonoporation. , 2019, , .		1
17	A Novel Mathematical Model for Transit-time Ultrasonic Flow Measurement. , 2019, , .		3
18	Flow Velocity Measurement Using a Spatial Averaging Method with Two-Dimensional Flexural Ultrasonic Array Technology. <i>Sensors</i> , 2019, 19, 4786.	3.8	12

#	ARTICLE	IF	CITATIONS
19	Using Coded Excitation to maintain Signal to Noise for FMC+TFM on Attenuating Materials. , 2019, , .		2
20	Two-dimensional flexural ultrasonic phased array for flow measurement. , 2017, , .		0
21	Two-dimensional flexural ultrasonic phased array for flow measurement. , 2017, , .		5
22	Fast ultrasonic phased array inspection of complex geometries delivered through robotic manipulators and high speed data acquisition instrumentation. , 2016, , .		11
23	Design of flexural ultrasonic phased array for fluid-coupled applications. , 2016, , .		4
24	Development of a hybrid custom / commercial multi-channel, high-frequency transmit pulser and beamformer system. , 2015, , .		0