

Michaël Hinderdael

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

140
citations

1307594

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h-index

1281871

11
g-index

20
all docs

20
docs citations

20
times ranked

102
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardware-in-the-loop control of additive manufacturing processes using temperature feedback. Journal of Laser Applications, 2016, 28, .	1.7	31
2	Fatigue Performance of Ti-6Al-4V Additively Manufactured Specimens with Integrated Capillaries of an Embedded Structural Health Monitoring System. Materials, 2017, 10, 993.	2.9	16
3	Model-Based Temperature Feedback Control of Laser Cladding Using High-Resolution Hyperspectral Imaging. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2714-2722.	5.8	15
4	Hyperspectral and thermal temperature estimation during laser cladding. Journal of Laser Applications, 2019, 31, .	1.7	12
5	An analytical amplitude model for negative pressure waves in gaseous media. Mechanical Systems and Signal Processing, 2020, 144, 106800.	8.0	11
6	High Resolution Temperature Estimation During Laser Cladding of Stainless Steel. Physics Procedia, 2016, 83, 1253-1260.	1.2	10
7	Offline powder-gas nozzle jet characterization for coaxial laser-based Directed Energy Deposition. Procedia CIRP, 2020, 94, 281-287.	1.9	10
8	Proof of Concept of Integrated Load Measurement in 3D Printed Structures. Sensors, 2017, 17, 328.	3.8	6
9	On the Nature of Pressure Wave Propagation through Ducts for Structural Health Monitoring Application. Applied Sciences (Switzerland), 2019, 9, 837.	2.5	5
10	Fatigue failure monitoring of 316L stainless steel coupons using optical fibre based distributed strain sensing. Smart Materials and Structures, 2019, 28, 105054.	3.5	4
11	Process parameter study for enhancement of directed energy deposition powder efficiency based on single-track geometry evaluation. Journal of Laser Applications, 2021, 33, .	1.7	4
12	Numerical Simulation of Fatigue Crack Growth in Straight Lugs Equipped with Efficient Structural Health Monitoring. Procedia Structural Integrity, 2018, 13, 1708-1713.	0.8	3
13	Analytical Modeling of Embedded Load Sensing Using Liquid-Filled Capillaries Integrated by Metal Additive Manufacturing. IEEE Sensors Journal, 2019, 19, 9447-9455.	4.7	3
14	On the Influence of Capillary-Based Structural Health Monitoring on Fatigue Crack Initiation and Propagation in Straight Lugs. Materials, 2019, 12, 2965.	2.9	3
15	Proof of Concept of Crack Localization Using Negative Pressure Waves in Closed Tubes for Later Application in Effective SHM System for Additive Manufactured Components. Applied Sciences (Switzerland), 2016, 6, 33.	2.5	2
16	Additive Manufactured Metallic Smart Structures to Monitor the Mechanical Behavior In Situ. Proceedings (mdpi), 2018, 2, 500.	0.2	2
17	Production Assessment of Hybrid Directed Energy Deposition Manufactured Sample with Integrated Effective Structural Health Monitoring channel (eSHM). Procedia Structural Integrity, 2021, 34, 32-38.	0.8	2
18	Evaluation of the diffuse reflectivity behaviour of the melt pool during the laser metal deposition process. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Wave propagation visualisation through ducts using Schlieren technique for crack localisation with eSHM-system. Applied Optics, 2021, 60, 10221-10231.	1.8	0
20	Structural health monitoring through surface acoustic wave inspection deployed on capillaries embedded in additively manufactured components. MATEC Web of Conferences, 2021, 349, 03010.	0.2	0