

# Michaël Hinderdael

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8034886/publications.pdf>

Version: 2024-02-01

20  
papers

140  
citations

1307594

7  
h-index

1281871

11  
g-index

20  
all docs

20  
docs citations

20  
times ranked

102  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Wave propagation visualisation through ducts using Schlieren technique for crack localisation with eSHM-system. Applied Optics, 2021, 60, 10221-10231.  | 1.8 | 0         |
| 2  | 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         |
| 3  | 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         |
| 4  | 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         |
| 5  | Offline powder-gas nozzle jet characterization for coaxial laser-based Directed Energy Deposition. Procedia CIRP, 2020, 94, 281-287.  | 1.9 | 10        |
| 6  | An analytical amplitude model for negative pressure waves in gaseous media. Mechanical Systems and Signal Processing, 2020, 144, 106800.  | 8.0 | 11        |
| 7  | 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         |
| 8  | 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         |
| 9  | 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         |
| 10 | Hyperspectral and thermal temperature estimation during laser cladding. Journal of Laser Applications, 2019, 31, .  | 1.7 | 12        |
| 11 | On the Nature of Pressure Wave Propagation through Ducts for Structural Health Monitoring Application. Applied Sciences (Switzerland), 2019, 9, 837.  | 2.5 | 5         |
| 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 | Additive Manufactured Metallic Smart Structures to Monitor the Mechanical Behavior In Situ. Proceedings (mdpi), 2018, 2, 500.   | 0.2 | 2         |
| 14 | 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        |
| 15 | 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        |
| 16 | Proof of Concept of Integrated Load Measurement in 3D Printed Structures. Sensors, 2017, 17, 328.   | 3.8 | 6         |
| 17 | Evaluation of the diffuse reflectivity behaviour of the melt pool during the laser metal deposition process. , 2016, , .  |     | 1         |
| 18 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Hardware-in-the-loop control of additive manufacturing processes using temperature feedback. Journal of Laser Applications, 2016, 28, . | 1.7 | 31        |
| 20 | High Resolution Temperature Estimation During Laser Cladding of Stainless Steel. Physics Procedia, 2016, 83, 1253-1260.                 | 1.2 | 10        |