

Hossein Taheri

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

510
citations

687363

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28
all docs

28
docs citations

28
times ranked

418
citing authors

#	ARTICLE	IF	CITATIONS
1	Nondestructive Ultrasonic Inspection of Composite Materials: A Comparative Advantage of Phased Array Ultrasonic. Applied Sciences (Switzerland), 2019, 9, 1628.	2.5	76
2	In Situ Additive Manufacturing Process Monitoring With an Acoustic Technique: Clustering Performance Evaluation Using K-Means Algorithm. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	68
3	Non-destructive investigation of thermoplastic reinforced composites. Composites Part B: Engineering, 2016, 97, 244-254.	12.0	50
4	In Situ Process Monitoring for Additive Manufacturing Through Acoustic Techniques. Journal of Materials Engineering and Performance, 2020, 29, 6249-6262.	2.5	43
5	In-situ acoustic signature monitoring in additive manufacturing processes. AIP Conference Proceedings, 2018, , .	0.4	29
6	Failures and Flaws in Fused Deposition Modeling (FDM) Additively Manufactured Polymers and Composites. Journal of Composites Science, 2022, 6, 202.	3.0	29
7	Investigation of Nondestructive Testing Methods for Friction Stir Welding. Metals, 2019, 9, 624.	2.3	28
8	Additive manufacturing metrology: State of the art and needs assessment. AIP Conference Proceedings, 2016, , .	0.4	25
9	In-situ process monitoring for metal additive manufacturing through acoustic techniques using wavelet and convolutional neural network (CNN). International Journal of Advanced Manufacturing Technology, 2021, 116, 3473-3488.	3.0	23
10	Powder-based additive manufacturing - a review of types of defects, generation mechanisms, detection, property evaluation and metrology. International Journal of Additive and Subtractive Materials Manufacturing, 2017, 1, 172.	0.2	20
11	Acoustic monitoring of additive manufacturing for damage and process condition determination. AIP Conference Proceedings, 2019, , .	0.4	19
12	Artificial Intelligence, Machine Learning and Smart Technologies for Nondestructive Evaluation. Sensors, 2022, 22, 4055.	3.8	19
13	Intelligent Fault Diagnosis of Bearings Based on Energy Levels in Frequency Bands Using Wavelet and Support Vector Machines (SVM). Journal of Manufacturing and Materials Processing, 2019, 3, 11.	2.2	17
14	Finite element simulation and experimental verification of ultrasonic non-destructive inspection of defects in additively manufactured materials. AIP Conference Proceedings, 2018, , .	0.4	10
15	Acoustic Emission and Ultrasound Phased Array Technique for Composite Material Evaluation. , 2013, , .		8
16	NDE in-process for metal parts fabricated using powder based additive manufacturing. , 2019, , .		8
17	Neural network for structural health monitoring with combined direct and indirect methods. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	7
18	Detection of pores in additive manufactured parts by near field response of laser-induced ultrasound. AIP Conference Proceedings, 2019, , .	0.4	5

#	ARTICLE	IF	CITATIONS
19	Assessment and detection of stress corrosion cracking by advanced eddy current array nondestructive testing and material characterization. Journal of Natural Gas Science and Engineering, 2022, 102, 104568.	4.4	5
20	Ultrasonic Nondestructive Testing for In-Line Monitoring of Wire-Arc Additive Manufacturing (WAAM). , 2020, , .		4
21	Phased Array Ultrasonic Technique Parametric Evaluation for Composite Materials. , 2014, , .		3
22	Ultrasonic Phased Array Technique for Defect Detection and Sizing in Heavy-Walled Cast Components. , 2020, , .		3
23	Identification of Appropriate Wavelet for Vibration Study of Mechanical Impacts. , 2013, , .		2
24	Onset of Nucleate Boiling Detection in a Boiler Tube by Wavelet Transformation of Vibration Signals. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2018, 1, .	0.9	1
25	Characterization of Surface Topography Features for the Effect of Process Parameters and Their Correlation to Quality Monitoring in Metal Additive Manufacturing. Metrology, 2022, 2, 73-83.	1.5	1
26	Assessment of material property variations with resonant ultrasound spectroscopy (RUS) when using additive manufacturing to print over existing parts. Journal of Advanced Joining Processes, 2022, 5, 100117.	2.7	1
27	Material characterisation of additive manufacturing titanium alloy (Titanium 6Al-4V) for quality control and properties evaluations. Advances in Materials and Processing Technologies, 2022, 8, 4678-4697.	1.4	1