Hazim El-Mounayri

List of Publications by Year
in descending order

26 papers	630 citations	759233 12 h-index	642732 23 g-index
28 all docs	28 docs citations	28 times ranked	597 citing authors

#	Article	IF	Citations
1	Common defects and contributing parameters in powder bed fusion AM process and their classification for online monitoring and control: a review. International Journal of Advanced Manufacturing Technology, 2018, 95, 527-550.	3.0	162
2	Optimal Conformal Cooling Channels in 3D Printed Dies for Plastic Injection Molding. Procedia Manufacturing, 2016, 5, 888-900.	1.9	70
3	Selecting an artificial neural network for efficient modeling and accurate simulation of the milling process. International Journal of Machine Tools and Manufacture, 2002, 42, 663-674.	13.4	63
4	A Framework for Optimizing Process Parameters in Powder Bed Fusion (PBF) Process Using Artificial Neural Network (ANN). Procedia Manufacturing, 2019, 34, 505-515.	1.9	45
5	A Framework for Optimizing the Design of Injection Molds with Conformal Cooling for Additive Manufacturing. Procedia Manufacturing, 2015, 1, 404-415.	1.9	43
6	Implementation of Conformal Cooling & Topology Optimization in 3D Printed Stainless Steel Porous Structure Injection Molds. Procedia Manufacturing, 2016, 5, 901-915.	1.9	34
7	Investigation of Layer Based Thermal Behavior in Fused Deposition Modeling Process by Infrared Thermography. Procedia Manufacturing, 2018, 26, 1014-1022.	1.9	30
8	A Thermomechanical Analysis of Conformal Cooling Channels in 3D Printed Plastic Injection Molds. Applied Sciences (Switzerland), 2018, 8, 2567.	2.5	23
9	Thermo-fluid Topology Optimization and Experimental Study of Conformal Cooling Channels for 3D Printed Plastic Injection Molds. Procedia Manufacturing, 2019, 34, 631-639.	1.9	20
10	A new artificial neural network approach to modeling ball-end milling. International Journal of Advanced Manufacturing Technology, 2010, 47, 527-534.	3.0	17
11	Gaussian process-based prognostics of lithium-ion batteries and design optimization of cathode active materials. Journal of Power Sources, 2022, 528, 231026.	7.8	15
12	Virtual Training Environment for a 3-Axis CNC Milling Machine. , 2005, , 1111.		14
13	MOLECULAR DYNAMICS SIMULATION OF NANOMETRIC CUTTING. Machining Science and Technology, 2010, 14, 423-439.	2.5	14
14	Correlation Between Process Parameters and Mechanical Properties in Parts Printed by the Fused Deposition Modeling Process. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 35-41.	0.5	14
15	Heat Conduction and Geometry Topology Optimization of Support Structure in Laser-Based Additive Manufacturing. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 17-27.	0.5	12
16	Nanostructured Molybdenum-Oxide Anodes for Lithium-Ion Batteries: An Outstanding Increase in Capacity. Nanomaterials, 2022, 12, 13.	4.1	12
17	Modeling of extrusion process of a condenser tube for investigating the effects of mandrel geometry. International Journal of Advanced Manufacturing Technology, 2017, 92, 3237-3252.	3.0	6
18	Optimization of Chessboard Scanning Strategy Using Genetic Algorithm in Multi-Laser Additive Manufacturing Process. , 2020, , .		5

#	Article	IF	Citations
19	Scanning Strategies in the PBF Process: A Critical Review. , 2020, , .		4
20	Effect of Porosity on Thermal Performance of Plastic Injection Molds Based on Experimental and Numerically Derived Material Properties. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 55-63.	0.5	3
21	An innovative Fast Layer-wise Simulation of Temperature distribution using a Chessboard Strategy (FALS TECHS) in the powder-bed fusion process. Additive Manufacturing, 2021, 46, 102065.	3.0	3
22	Multi-Objective Bayesian Optimization of Lithium-Ion Battery Cells for Electric Vehicle Operational Scenarios. Electronic Materials, 2022, 3, 201-217.	1.9	3
23	Structural and Electrochemical Properties of the High Ni Content Spinel LiNiMnO4. Electrochem, 2021, 2, 95-117.	3.3	2
24	Development of a Cone CVT by SDPD and Topology Optimization. , 0, , .		2
25	Design, Analysis and Experimental Study of Metal-3D Printed Conformal Cooling Plastic Injection Mold. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 35-40.	0.5	2
26	A Framework for Estimating Mold Performance Using Experimental and Numerical Analysis of Injection Mold Tooling Prototypes. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 71-76.	0.5	1