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	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
2	Nanostructured Molybdenum-Oxide Anodes for Lithium-Ion Batteries: An Outstanding Increase in Capacity. Nanomaterials, 2022, 12, 13.	4.1	12
3	Multi-Objective Bayesian Optimization of Lithium-Ion Battery Cells for Electric Vehicle Operational Scenarios. Electronic Materials, 2022, 3, 201-217.	1.9	3
4	Structural and Electrochemical Properties of the High Ni Content Spinel LiNiMnO4. Electrochem, 2021, 2, 95-117.	3.3	2
5	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
6	Optimization of Chessboard Scanning Strategy Using Genetic Algorithm in Multi-Laser Additive Manufacturing Process. , 2020, , .		5
7	Scanning Strategies in the PBF Process: A Critical Review. , 2020, , .		4
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	A Thermomechanical Analysis of Conformal Cooling Channels in 3D Printed Plastic Injection Molds. Applied Sciences (Switzerland), 2018, 8, 2567.	2.5	23
17	Investigation of Layer Based Thermal Behavior in Fused Deposition Modeling Process by Infrared Thermography. Procedia Manufacturing, 2018, 26, 1014-1022.	1.9	30
18	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

#	Article	IF	Citations
19	Optimal Conformal Cooling Channels in 3D Printed Dies for Plastic Injection Molding. Procedia Manufacturing, 2016, 5, 888-900.	1.9	70
20	Implementation of Conformal Cooling & Topology Optimization in 3D Printed Stainless Steel Porous Structure Injection Molds. Procedia Manufacturing, 2016, 5, 901-915.	1.9	34
21	A Framework for Optimizing the Design of Injection Molds with Conformal Cooling for Additive Manufacturing. Procedia Manufacturing, 2015, 1, 404-415.	1.9	43
22	A new artificial neural network approach to modeling ball-end milling. International Journal of Advanced Manufacturing Technology, 2010, 47, 527-534.	3.0	17
23	MOLECULAR DYNAMICS SIMULATION OF NANOMETRIC CUTTING. Machining Science and Technology, 2010, 14, 423-439.	2.5	14
24	Virtual Training Environment for a 3-Axis CNC Milling Machine. , 2005, , 1111.		14
25	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
26	Development of a Cone CVT by SDPD and Topology Optimization. , 0, , .		2