Francesco Modica

List of Publications by Year
in descending order

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38	398	840776 11	839539 18
papers	citations	h-index	g-index

39	39	39	387
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Manufacturing of Tiâ€“6Alâ€“4V Microâ€Implantable Parts Using Hybrid Selective Laser Melting and Microâ€Electrical Discharge Machining. Advanced Engineering Materials, 2016, 18, 1544-1549.	3.5	53
2	Manufacturing of metallic micro-components using hybrid soft lithography and micro-electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2017, 91, 445-452.	3.0	38
3	Surface Finish Improvement of Additive Manufactured Metal Parts. Engineering Materials, 2018, , 145-164.	0.6	35
4	Effect of cavity surface roughness and wettability on the filling flow in micro injection molding. Journal of Manufacturing Processes, 2019, 43, 105-111.	5.9	28
5	Pulse-Type Influence on the Micro-EDM Milling Machinability of Si3N4â€“TiN Workpieces. Micromachines, 2020, 11, 932.	2.9	24
6	Machine Tools Mechatronic Analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 345-353.	2.4	21
7	Sustainable Micro-Manufacturing of Micro-Components via Micro Electrical Discharge Machining. Sustainability, 2011, 3, 2456-2469.	3.2	21
8	Study about the Influence of Powder Mixed Water Based Fluid on Micro-EDM Process. Procedia CIRP, 2018, 68, 789-795.	1.9	17
9	Micro Injection Molding of Thin Cavities Using Stereolithography for Mold Fabrication. Polymers, 2021, 13, 1848.	4.5	16
10	Disposable Optical Stretcher Fabricated by Microinjection Moulding. Micromachines, 2018, 9, 388.	2.9	15
11	Analysis of discharge pulses in micro-EDM milling of Si3N4-TiN composite workpiece by means of power spectral density (PSD). Journal of Manufacturing Processes, 2019, 43, 112-118.	5.9	15
12	Evaluation of mold roughness influence on injected thin micro-cavities. International Journal of Advanced Manufacturing Technology, 2018, 94, 4565-4575.	3.0	11
13	A New Process Combining Micro-Electro-Discharge-Machining Milling and Sinking for Fast Fabrication of Microchannels With Draft Angle. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.7	9
14	Image analysis for 3D micro-features: A new hybrid measurement method. Precision Engineering, 2017, 48, 123-132.	3.4	9
15	Can A Low Cost Sensing System Be Exploited For High Precision Machining?. Procedia CIRP, 2018, 75, 391-396.	1.9	9
16	Micro-texturing of molds via Stereolithography for the fabrication of medical components. Procedia CIRP, 2022, 110, 93-98.	1.9	9
17	Analysis and Modeling of Defects in Unsupported Overhanging Features in Micro-Stereolithography. , 2016, , .		8
18	Improvements in Accuracy of Fused Deposition Modeling Via Integration of Low-Cost On-Board Vision Systems. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	8

#	Article	IF	Citations
19	Design and Fabrication of a Polymeric Microfilter for Medical Applications. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.7	7
20	Micro-electro-Discharge Machining (Micro-EDM). Springer Tracts in Mechanical Engineering, 2017, , 149-173.	0.3	7
21	Micro Electro Discharge Milling of Freeform Micro-Features With High Aspect Ratio. , 2011, , .		4
22	Micro Injection Moulding of Polymeric Components. , 2011, , .		4
23	Fabrication Of Micro-Nozzles Via Î¼-EDM Process. , 2011, , .		4
24	Energetic consumption modeling of micro-EDM process. International Journal of Advanced Manufacturing Technology, 2017, 93, 1843-1852.	3.0	4
25	Hospital Factory for Manufacturing Customised, Patient-Specific 3D Anatomo-Functional Models and Prostheses. , 2019, , 233-254.		4
26	Evaluation of Micro-EDM Milling Performance Using Pulse Discrimination. , 2014, , .		3
27	Multi-step approach for automated scaling of photogrammetric micro-measurements. International Journal of Advanced Manufacturing Technology, 2019, 102, 747-757.	3.0	3
28	Editorial for the Special Issue on Micro-Electro Discharge Machining: Principles, Recent Advancements and Applications. Micromachines, 2021, 12, 554.	2.9	3
29	Al-Mg Micro-Features Using Micro-EDM Milling. , 2012, , .		2
30	Micro-EDM-Milling and â€“Sinking Combined Approach for the Fabrication of Micro-Components. , 2015, , .		2
31	Design and Fabrication of a Polymeric Micro-Filter. , 2015, , .		2
32	Micro-EDM Studies of the Fabrication of Customized Internal Fixation Devices for Orthopedic Surgery. , 2015, , .		1
33	Design and Experimental Validation of a Process Chain for Thin Components Manufacturing by Micro Injection Molding Process. Journal of Micro and Nano-Manufacturing, 2021, 9, .	0.7	1
34	Pulse Monitoring and Discrimination in Micro-EDM Milling of Si₃N₄-TiN Micro-Channels. , 2015, , .		1
35	Effect of Surface Roughness in Micro Injection Moulding Process of Thin Cavities. , 2016, , .		0
36	Micro-EDM Machining Behaviour of ZrO2-TiN Ceramic Composites. , 2010, , .		0

#	Article	IF	Citations
37	Energetic Modeling of a Micro-EDM Machine. , 2013, , .		0
38	Magnetic Actuation of Meso-Scale Mechanisms. , 2013, , .		0