

Francesco Modica

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

398
citations

840776

11
h-index

839539

18
g-index

39
all docs

39
docs citations

39
times ranked

387
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Micro-texturing of molds via Stereolithography for the fabrication of medical components. Procedia CIRP, 2022, 110, 93-98. | 1.9 | 9 |
| 2 | Editorial for the Special Issue on Micro-Electro Discharge Machining: Principles, Recent Advancements and Applications. Micromachines, 2021, 12, 554. | 2.9 | 3 |
| 3 | Micro Injection Molding of Thin Cavities Using Stereolithography for Mold Fabrication. Polymers, 2021, 13, 1848. | 4.5 | 16 |
| 4 | 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 |
| 5 | Pulse-Type Influence on the Micro-EDM Milling Machinability of Si ₃ N ₄ -TiN Workpieces. Micromachines, 2020, 11, 932. | 2.9 | 24 |
| 6 | 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 |
| 7 | 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 |
| 8 | Analysis of discharge pulses in micro-EDM milling of Si ₃ N ₄ -TiN composite workpiece by means of power spectral density (PSD). Journal of Manufacturing Processes, 2019, 43, 112-118. | 5.9 | 15 |
| 9 | Hospital Factory for Manufacturing Customised, Patient-Specific 3D Anatomic-Functional Models and Prostheses. , 2019, , 233-254. | | 4 |
| 10 | Multi-step approach for automated scaling of photogrammetric micro-measurements. International Journal of Advanced Manufacturing Technology, 2019, 102, 747-757. | 3.0 | 3 |
| 11 | Surface Finish Improvement of Additive Manufactured Metal Parts. Engineering Materials, 2018, , 145-164. | 0.6 | 35 |
| 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 | Can A Low Cost Sensing System Be Exploited For High Precision Machining?. Procedia CIRP, 2018, 75, 391-396. | 1.9 | 9 |
| 14 | Study about the Influence of Powder Mixed Water Based Fluid on Micro-EDM Process. Procedia CIRP, 2018, 68, 789-795. | 1.9 | 17 |
| 15 | Disposable Optical Stretcher Fabricated by Microinjection Moulding. Micromachines, 2018, 9, 388. | 2.9 | 15 |
| 16 | Image analysis for 3D micro-features: A new hybrid measurement method. Precision Engineering, 2017, 48, 123-132. | 3.4 | 9 |
| 17 | Energetic consumption modeling of micro-EDM process. International Journal of Advanced Manufacturing Technology, 2017, 93, 1843-1852. | 3.0 | 4 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Micro-electro-Discharge Machining (Micro-EDM). Springer Tracts in Mechanical Engineering, 2017, , 149-173. | 0.3 | 7 |
| 20 | Effect of Surface Roughness in Micro Injection Moulding Process of Thin Cavities. , 2016, , . | | 0 |
| 21 | Analysis and Modeling of Defects in Unsupported Overhanging Features in Micro-Stereolithography. , 2016, , . | | 8 |
| 22 | Manufacturing of TiAl ₄ Micro-Implantable Parts Using Hybrid Selective Laser Melting and Electrical Discharge Machining. Advanced Engineering Materials, 2016, 18, 1544-1549. | 3.5 | 53 |
| 23 | Design and Fabrication of a Polymeric Microfilter for Medical Applications. Journal of Micro and Nano-Manufacturing, 2016, 4, . | 0.7 | 7 |
| 24 | 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 |
| 25 | Micro-EDM Studies of the Fabrication of Customized Internal Fixation Devices for Orthopedic Surgery. , 2015, , . | | 1 |
| 26 | Micro-EDM-Milling and Sinking Combined Approach for the Fabrication of Micro-Components. , 2015, , . | | 2 |
| 27 | Design and Fabrication of a Polymeric Micro-Filter. , 2015, , . | | 2 |
| 28 | Pulse Monitoring and Discrimination in Micro-EDM Milling of Si ₃ N ₄ -TiN Micro-Channels. , 2015, , . | | 1 |
| 29 | Evaluation of Micro-EDM Milling Performance Using Pulse Discrimination. , 2014, , . | | 3 |
| 30 | Energetic Modeling of a Micro-EDM Machine. , 2013, , . | | 0 |
| 31 | Magnetic Actuation of Meso-Scale Mechanisms. , 2013, , . | | 0 |
| 32 | Al-Mg Micro-Features Using Micro-EDM Milling. , 2012, , . | | 2 |
| 33 | Sustainable Micro-Manufacturing of Micro-Components via Micro Electrical Discharge Machining. Sustainability, 2011, 3, 2456-2469. | 3.2 | 21 |
| 34 | Micro Electro Discharge Milling of Freeform Micro-Features With High Aspect Ratio. , 2011, , . | | 4 |
| 35 | Micro Injection Moulding of Polymeric Components. , 2011, , . | | 4 |
| 36 | Fabrication Of Micro-Nozzles Via $\frac{1}{4}$ -EDM Process. , 2011, , . | | 4 |

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|----|---|-----|-----------|
| 37 | Micro-EDM Machining Behaviour of ZrO ₂ -TiN Ceramic Composites. , 2010, , . | | 0 |
| 38 | Machine Tools Mechatronic Analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 345-353. | 2.4 | 21 |