

# Massimiliano Annoni

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4871955/publications.pdf>

Version: 2024-02-01

75  
papers

1,021  
citations

430874

18  
h-index

477307

29  
g-index

77  
all docs

77  
docs citations

77  
times ranked

859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Innovative fabrication of diffractive surfaces on plastic parts via textures micromilled on NiP injection moulds. International Journal of Advanced Manufacturing Technology, 2021, 113, 1347-1359.	3.0	1
2	Experimental Study of Abrasive Waterjet Cutting for Managing Residues in No-Tillage Techniques. Agriculture (Switzerland), 2021, 11, 392.	3.1	7
3	An experimental investigation on Inconel 718 interrupted cutting with ceramic solid end mills. International Journal of Advanced Manufacturing Technology, 2021, 117, 2173-2184.	3.0	5
4	Special Issue on Remote Micro- and Nano-Manufacturing Science, Engineering, and Education. Journal of Micro and Nano-Manufacturing, 2021, 9, .	0.7	0
5	Abrasive Waterjet (AWJ) Forcesâ€™Potential Indicators of Machining Quality. Materials, 2021, 14, 3309.	2.9	7
6	Operational vibration of a waterjet focuser as means for monitoring its wear progression. International Journal of Advanced Manufacturing Technology, 2021, 116, 1937-1949.	3.0	9
7	Effects of micromilled NiP mold surface topography on the optical characteristics of injection molded prismatic retroreflectors. Precision Engineering, 2020, 61, 126-135.	3.4	9
8	Focusing tube operational vibration as a means for monitoring the abrasive waterjet cutting capability. Journal of Manufacturing Processes, 2020, 59, 1-10.	5.9	14
9	Indirect cutting tool wear classification using deep learning and chip colour analysis. International Journal of Advanced Manufacturing Technology, 2020, 111, 1099-1114.	3.0	19
10	Micro extrusion of high aspect ratio bi-lumen tubes using 17-4PH stainless steel feedstock. Journal of Manufacturing Processes, 2020, 58, 443-457.	5.9	5
11	Effect of Feedstock Properties on Extrusion of High Aspect Ratio Microbi-Lumen Tubes. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	0
12	Debinding and Presintering of High Aspect Ratio Microbi-Lumen Tubes Produced by Extrusion of 17-4PH Feedstock. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	0
13	Implementation of hybrid additive manufacturing based on extrusion of feedstock and milling. Procedia Manufacturing, 2019, 34, 738-746.	1.9	13
14	Automatic identification of edge chipping defects in high precision drilling of cemented carbide. Precision Engineering, 2019, 60, 383-393.	3.4	7
15	Micro-Abrasive Water Jet and Micro-WEDM Process Chain Assessment for Fabricating Microcomponents. Journal of Micro and Nano-Manufacturing, 2019, 7, .	0.7	2
16	Green-State Micromilling of Additive Manufactured AISI316L. Journal of Micro and Nano-Manufacturing, 2019, 7, .	0.7	2
17	Shape distortion reduction method for abrasive water jet (AWJ) cutting. Precision Engineering, 2018, 53, 194-202.	3.4	22
18	Finite element modeling of micro-orthogonal cutting process with dead metal cap. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1351-1361.	2.4	8

#	ARTICLE	IF	CITATIONS
19	Manufacturing Signatures of Injection Molding and Injection Compression Molding for Micro-Structured Polymer Fresnel Lens Production. <i>Micromachines</i> , 2018, 9, 653.	2.9	27
20	A graphical method for performance mapping of machines and milling tools. <i>Procedia Manufacturing</i> , 2018, 26, 1500-1508.	1.9	3
21	Tolerance verification of precision injection moulded Fresnel lenses. <i>Procedia CIRP</i> , 2018, 75, 137-142.	1.9	6
22	Study about the Influence of Powder Mixed Water Based Fluid on Micro-EDM Process. <i>Procedia CIRP</i> , 2018, 68, 789-795.	1.9	17
23	Shape deposition manufacturing of 316L parts via feedstock extrusion and green-state milling. <i>Manufacturing Letters</i> , 2018, 18, 6-11.	2.2	18
24	Rapid production of hollow SS316 profiles by extrusion based additive manufacturing. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	13
25	On the Geometrical Accuracy of High Aspect Ratio Micromilled Pins. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	2.2	3
26	Ceramic sponge Abrasive Waterjet (AWJ) precision cutting through a temporary filling procedure. <i>Journal of Manufacturing Processes</i> , 2017, 28, 41-49.	5.9	11
27	3D finite element prediction of chip flow, burr formation, and cutting forces in micro end-milling of aluminum 6061-T6. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 203-214.	4.3	22
28	Impact of deep cores surface topography generated by micro milling on the demolding force in micro injection molding. <i>Journal of Materials Processing Technology</i> , 2017, 246, 211-223.	6.3	41
29	Influence of the worn tool affected by built-up edge (BUE) on micro end-milling process performance: A 3D finite element modeling investigation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 1321-1332.	2.2	26
30	Surface footprint in molds micromilling and effect on part demoldability in micro injection molding. <i>Journal of Manufacturing Processes</i> , 2017, 29, 160-174.	5.9	28
31	Micro-milling Machinability of DED Additive Titanium Ti-6Al-4V. <i>Procedia Manufacturing</i> , 2017, 10, 497-509.	1.9	36
32	On the Application of Replica Molding Technology for the Indirect Measurement of Surface and Geometry of Micromilled Components. <i>Micromachines</i> , 2017, 8, 195.	2.9	14
33	3D Finite Element Simulation of Micro End-Milling by Considering the Effect of Tool Run-Out. <i>Micromachines</i> , 2017, 8, 187.	2.9	45
34	Micro-waterjet Technology. <i>Springer Tracts in Mechanical Engineering</i> , 2017, , 129-148.	0.3	6
35	An innovative machine for Fused Deposition Modeling of metals and advanced ceramics. <i>MATEC Web of Conferences</i> , 2016, 43, 03003.	0.2	26
36	Feasibility Study of an Extrusion-based Direct Metal Additive Manufacturing Technique. <i>Procedia Manufacturing</i> , 2016, 5, 916-927.	1.9	45

#	ARTICLE	IF	CITATIONS
37	Calibration and Validation of a Mechanistic Micromilling Force Prediction Model. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	5
38	Applicability of an orthogonal cutting slip-line field model for the microscale. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 2250-2264.	2.4	5
39	Finite Element Simulation and Validation of Chip Formation and Cutting Forces in Dry and Cryogenic Cutting of Ti-6Al-4V. Procedia Manufacturing, 2015, 1, 728-739.	1.9	33
40	Thin wall geometrical quality improvement in micromilling. International Journal of Advanced Manufacturing Technology, 2015, 79, 881-895.	3.0	34
41	Influence of machining parameters on part geometrical error in abrasive waterjet offset-mode turning. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 2125-2133.	2.4	11
42	CFD aided design and experimental validation of an innovative Air Assisted Pure Water Jet cutting system. Journal of Materials Processing Technology, 2014, 214, 1647-1657.	6.3	21
43	Investigation of the Effects of Machining Parameters on Material Removal Rate in Abrasive Waterjet Turning. Advances in Mechanical Engineering, 2014, 6, 624203.	1.6	30
44	EDM drilling of ultra-high aspect ratio micro holes with insulated tools. CIRP Annals - Manufacturing Technology, 2013, 62, 191-194.	3.6	91
45	Microcutting Force Prediction by Means of a Slip-line Field Force Model. Procedia CIRP, 2013, 8, 558-563.	1.9	9
46	Condition Monitoring of an Ultra High Pressure Intensifier for Water Jet Cutting Machines. Procedia CIRP, 2013, 12, 193-198.	1.9	4
47	A new approach for online health assessment of abrasive waterjet cutting systems. International Journal of Abrasive Technology, 2013, 6, 158.	0.2	8
48	Investigation of the hydrodynamic characteristics of abrasive water jet cutting head. International Journal of Machining and Machinability of Materials, 2013, 14, 105.	0.1	2
49	A real-time configurable NURBS interpolator with bounded acceleration, jerk and chord error. CAD Computer Aided Design, 2012, 44, 509-521.	2.7	64
50	Water jet velocity uncertainty in laser Doppler velocimetry measurements. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1639-1650.	5.0	13
51	Ultrasonic metal welding of AA6022-T4 lap joints: Part I – Technological characterisation and static mechanical behaviour. Science and Technology of Welding and Joining, 2011, 16, 107-115.	3.1	58
52	Ultrasonic metal welding of AA6022-T4 lap joints: Part II – Fatigue behaviour, failure analysis and modelling. Science and Technology of Welding and Joining, 2011, 16, 116-125.	3.1	24
53	Dedicated optical instruments for ultrasonic welder inspection and control. Measurement: Journal of the International Measurement Confederation, 2010, 43, 39-45.	5.0	10
54	Performance variability of aluminium hybrid LAP-joints obtained by means of adhesives and ultrasonic welding. International Journal of Material Forming, 2010, 3, 1051-1054.	2.0	7

#	ARTICLE	IF	CITATIONS
55	Nozzle and Working-Condition Classifications for Water Jet Systems. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1546-1554.	4.7	1
56	Nozzles Classification in a High-Pressure Water Jet System. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3739-3745.	4.7	4
57	The role of polymeric additives in water jet cutting. International Journal of Machining and Machinability of Materials, 2009, 6, 285.	0.1	5
58	Measurements, Analysis, and Interpretation of the Signals From a High-Pressure Waterjet Pump. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 34-47.	4.7	11
59	Efficiency Measurement of Water Jet Orifices by a Novel Electrooptical Technique. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 48-54.	4.7	8
60	Measurement of Water Jet Velocity Distribution Using Laser Velocimetry. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1524-1528.	4.7	18
61	A Tool for Working Condition and Nozzles Classification for Water Jet Systems. , 2008, , .		3
62	Optical Instrument for Real-Time Ultrasonic Welder Inspection. , 2008, , .		1
63	Electro-Optic Velocity Measurement of Water Jet Cutting Plants. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	2
64	Effect of Water Jet Orifice Geometry on Jet Behaviour and Cutting Capability. Key Engineering Materials, 2007, 344, 177-184.	0.4	1
65	Fault Classification Tool for High Pressure Water Jet Pumps. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	0
66	Nozzles Classification in a High Pressure Water Jet Systems. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	2
67	Diagnostic Algorithm and Architecture for High Pressure Waterjet Pumps. , 2006, , .		1
68	Experimental Investigation of Water Jet Orifice Efficiency by a Novel Laser Doppler Velocimetry Technique. , 2006, , .		1
69	Efficiency Measurement of Water Jet Orifices by a Novel Electro-Optical Technique. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
70	Diagnostic Algorithm and Architecture for High Pressure Waterjet Pumps. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
71	WE5: special session -- sensor networks: technologies, methodologies, and applications 2. , 2004, , .		0
72	Measurement and Analysis of the Signals of a High Pressure Waterjet Pump. , 0, , .		11

#	ARTICLE	IF	CITATIONS
73	Water Jet Peening of 39NiCrMo3 Steel by Means of a Standard Water Jet Cutting Machine. Key Engineering Materials, 0, 417-418, 949-952.	0.4	0
74	Modeling of Surface Waviness in Abrasive Waterjet Offset-Mode Turning. Applied Mechanics and Materials, 0, 621, 202-207.	0.2	3
75	Surface Waviness in Abrasive Waterjet Offset-Mode Turning. Applied Mechanics and Materials, 0, 599-601, 555-559.	0.2	3