

# Giovanni Totis

## List of Publications by Year in descending order

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34  
papers

1,066  
citations

471509

17  
h-index

414414

32  
g-index

37  
all docs

37  
docs citations

37  
times ranked

768  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multisensor approaches for chatter detection in milling. Journal of Sound and Vibration, 2008, 312, 672-693.	3.9	173
2	Development of an intelligent multisensor chatter detection system in milling. Mechanical Systems and Signal Processing, 2009, 23, 1704-1718.	8.0	149
3	Efficient evaluation of process stability in milling with Spindle Speed Variation by using the Chebyshev Collocation Method. Journal of Sound and Vibration, 2014, 333, 646-668.	3.9	75
4	Development of a dynamometer for measuring individual cutting edge forces in face milling. Mechanical Systems and Signal Processing, 2010, 24, 1844-1857.	8.0	69
5	Development of a modular dynamometer for triaxial cutting force measurement in turning. International Journal of Machine Tools and Manufacture, 2011, 51, 34-42.	13.4	68
6	Development of an innovative plate dynamometer for advanced milling and drilling applications. Measurement: Journal of the International Measurement Confederation, 2014, 49, 164-181.	5.0	52
7	Corrosion behaviour of 316L stainless steel manufactured by selective laser melting. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1633-1645.	1.5	52
8	RCPM – A new method for robust chatter prediction in milling. International Journal of Machine Tools and Manufacture, 2009, 49, 273-284.	13.4	50
9	Symmetry breaking in milling dynamics. International Journal of Machine Tools and Manufacture, 2019, 139, 37-59.	13.4	42
10	Comparison of Injection Molding Technologies for the Production of Micro-optical Devices. Procedia Engineering, 2014, 69, 1296-1305.	1.2	39
11	Modeling the dynamic properties of conventional and high-damping boring bars. Mechanical Systems and Signal Processing, 2013, 34, 340-352.	8.0	33
12	Upgraded stability analysis of milling operations by means of advanced modeling of tooling system bending. International Journal of Machine Tools and Manufacture, 2017, 113, 19-34.	13.4	32
13	Experimental study on the high-damping properties of metallic lattice structures obtained from SLM. Precision Engineering, 2021, 71, 63-77.	3.4	26
14	Development of a practical model for selection of stable tooling system configurations in internal turning. International Journal of Machine Tools and Manufacture, 2012, 61, 58-70.	13.4	25
15	Polynomial Chaos-Kriging approaches for an efficient probabilistic chatter prediction in milling. International Journal of Machine Tools and Manufacture, 2020, 157, 103610.	13.4	25
16	Automatic path-planning algorithm for realistic decorative robotic painting. Automation in Construction, 2015, 56, 67-75.	9.8	19
17	Compensation of geometrical errors of CAM/CNC machined parts by means of 3D workpiece model adaptation. CAD Computer Aided Design, 2014, 48, 28-38.	2.7	18
18	High temperature study of the evolution of the tribolayer in additively manufactured AISI 316L steel. Additive Manufacturing, 2020, 34, 101258.	3.0	15

#	ARTICLE	IF	CITATIONS
19	Breakthrough of regenerative chatter modeling in milling by including unexpected effects arising from tooling system deflection. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 2515-2534.	3.0	12
20	Heat transfer and pressure loss performances for additively manufactured pin fin arrays in annular channels. <i>Applied Thermal Engineering</i> , 2022, 202, 117851.	6.0	12
21	Dry turning of sintered molybdenum. <i>Journal of Materials Processing Technology</i> , 2013, 213, 1179-1190.	6.3	10
22	Single tracks data obtained by selective laser melting of Ti6Al4V with a small laser spot diameter. <i>Data in Brief</i> , 2020, 33, 106443.	1.0	10
23	Robust Analysis of Stability in Internal Turning. <i>Procedia Engineering</i> , 2014, 69, 1306-1315.	1.2	9
24	Upgraded Kalman Filtering of Cutting Forces in Milling. <i>Sensors</i> , 2020, 20, 5397.	3.8	7
25	An optimized pressure vessel obtained by metal additive manufacturing: Preliminary results. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 192, 104434.	2.6	7
26	Innovative Tool Coatings for Increasing Tool Life in Milling Nickel-coated Nickel-silver Alloy. <i>Procedia Engineering</i> , 2015, 100, 946-952.	1.2	6
27	Passive Chatter Suppression of Thin-Walled Parts by Means of High-Damping Lattice Structures Obtained from Selective Laser Melting. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 117.	2.2	6
28	An investigation on swarm intelligence methods for the optimization of complex part programs in CNC turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 657-672.	3.0	4
29	An innovative approach for automatic generation, verification and optimization of part programs in turning. <i>Journal of Manufacturing Systems</i> , 2015, 36, 168-181.	13.9	4
30	Upgraded Regularized Deconvolution of complex dynamometer dynamics for an improved correction of cutting forces in milling. <i>Mechanical Systems and Signal Processing</i> , 2022, 166, 108412.	8.0	4
31	Preventive evaluation of mould production cost in aluminium casting. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 285-295.	3.0	3
32	Stability analysis in milling by taking into account the influence of forced vibrations on the actual tool-workpiece engagement conditions. <i>Procedia CIRP</i> , 2018, 77, 453-456.	1.9	3
33	Wavelet-like Analysis in the Frequency-Damping Domain for Modal Parameters Identification. <i>Annals of DAAAM &amp; Proceedings</i> , 2016, , 0580-0588.	0.1	2
34	Current Trends in the Development and Use of Personalized Implants: Engineering Concepts and Regulation Perspectives for the Contemporary Oral and Maxillofacial Surgeon. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11694.	2.5	1