

W Polini

List of Publications by Year in descending order

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61
papers

1,173
citations

361413

20
h-index

414414

32
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62
all docs

62
docs citations

62
times ranked

821
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold plasma treatment of polypropylene surface: a study on wettability and adhesion. Journal of Materials Processing Technology, 2002, 121, 373-382.	6.3	118
2	Force and specific energy in stone cutting by diamond mill. International Journal of Machine Tools and Manufacture, 2004, 44, 1189-1196.	13.4	82
3	Digital twin of composite assembly manufacturing process. International Journal of Production Research, 2020, 58, 5238-5252.	7.5	77
4	A review of two models for tolerance analysis of an assembly: Jacobian and torsor. International Journal of Computer Integrated Manufacturing, 2011, 24, 74-86.	4.6	62
5	Spring-in analysis of CFRP thin laminates: numerical and experimental results. Composite Structures, 2017, 173, 17-24.	5.8	55
6	Improving the wettability of 2024 aluminium alloy by means of cold plasma treatment. Applied Surface Science, 2003, 214, 232-242.	6.1	51
7	Taxonomy of models for tolerance analysis in assembling. International Journal of Production Research, 2012, 50, 2014-2029.	7.5	45
8	Manufacturing signature in jacobian and torsor models for tolerance analysis of rigid parts. Robotics and Computer-Integrated Manufacturing, 2017, 46, 15-24.	9.9	44
9	To design the cure process of thick composite parts: experimental and numerical results. Advanced Composite Materials, 2014, 23, 225-238.	1.9	40
10	Test protocol for micro-geometric wear of sintered diamond tools. Wear, 2004, 257, 246-256.	3.1	33
11	Influence of winding speed and winding trajectory on tension in robotized filament winding of full section parts. Composites Science and Technology, 2005, 65, 1574-1581.	7.8	33
12	Measurement of high flexibility components in composite material by touch probe and force sensing resistors. Journal of Manufacturing Processes, 2019, 45, 520-531.	5.9	33
13	Dimensional errors in longitudinal turning based on the unified generalized mechanics of cutting approach.. International Journal of Machine Tools and Manufacture, 2002, 42, 1509-1515.	13.4	32
14	Manufacturing signature in variational and vector-loop models for tolerance analysis of rigid parts. International Journal of Advanced Manufacturing Technology, 2017, 88, 2153-2161.	3.0	29
15	Adhesion of a protective coating on a surface of aluminium alloy treated by air cold plasma. International Journal of Adhesion and Adhesives, 2007, 27, 1-8.	2.9	26
16	Measurement of nonrigid freeform surfaces by coordinate measuring machine. International Journal of Advanced Manufacturing Technology, 2010, 51, 1055-1067.	3.0	25
17	Monitoring of diamond disk wear in stone cutting by means of force or acceleration sensors. International Journal of Advanced Manufacturing Technology, 2007, 35, 454-467.	3.0	24
18	A New Class of Thin Composite Parts for Small Batch Productions. Advanced Composites Letters, 2014, 23, 096369351402300.	1.3	23

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19	Modular structure of a new feed-deposition head for a robotized filament winding cell. <i>Composites Science and Technology</i> , 2003, 63, 2255-2263.	7.8	22
20	Knowledge based method for touch probe configuration in an automated inspection system. <i>Journal of Materials Processing Technology</i> , 1998, 76, 153-160.	6.3	21
21	CVD diamond insert in stone cutting. <i>Diamond and Related Materials</i> , 2005, 14, 641-645.	3.9	19
22	Winding Trajectory and Winding Time in Robotized Filament Winding of Asymmetric Shape Parts. <i>Journal of Composite Materials</i> , 2005, 39, 1391-1411.	2.4	18
23	Manufacturing signature and operating conditions in a variational model for tolerance analysis of rigid assemblies. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2017, 28, 529-544.	2.1	18
24	3D Tolerance Analysis with Manufacturing Signature and Operating Conditions. <i>Procedia CIRP</i> , 2016, 43, 130-135.	1.9	15
25	Wear progression of diamond mills. <i>Diamond and Related Materials</i> , 2003, 12, 728-732.	3.9	14
26	The estimation of the diameter error in bar turning: a comparison among three cutting force models. <i>International Journal of Advanced Manufacturing Technology</i> , 2003, 22, 465-474.	3.0	13
27	To characterise diamond mill wear. <i>Wear</i> , 2003, 255, 1414-1420.	3.1	11
28	Tolerance-based Variations in Solid Modeling. <i>Journal of Computing and Information Science in Engineering</i> , 2003, 3, 345-352.	2.7	11
29	Concurrent tolerance design. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2016, 27, 23-36.	2.1	11
30	Uncertainty in manufacturing of lightweight products in composite laminate: part 1â€”numerical approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1423-1434.	3.0	11
31	Influence of multiphase forming approach on the thickness uniformity of components from superplastic PbSn60 alloy. <i>Manufacturing Letters</i> , 2018, 18, 16-19.	2.2	10
32	Uncertainty in manufacturing of lightweight products in composite laminateâ€”part 2: experimental validation. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1391-1401.	3.0	10
33	Effect of adherends misalignment on the strength of single-lap bonded joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 817-828.	3.0	10
34	Influence of blank variable thickness on the material formability in hot gas sheet metal forming process. <i>Manufacturing Letters</i> , 2020, 24, 72-76.	2.2	10
35	Analysis of process-induced deformation on the spring-in of carbon fiber-reinforced polymer thin laminates. <i>Journal of Composite Materials</i> , 2019, 53, 2901-2907.	2.4	8
36	Digital twin of stone sawing processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 121-131.	3.0	8

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37	Investigation on Stone Machining Performance Using Force and Specific Energy. <i>Advances in Mechanical Engineering</i> , 2009, 1, 175817.	1.6	8
38	Estimation of the winding tension to manufacture full section parts with robotized filament winding technology. <i>Advanced Composite Materials</i> , 2005, 14, 305-318.	1.9	7
39	Robotized Filament Winding of Full Section Parts: Comparison Between Two Winding Trajectory Planning Rules. <i>Advanced Composite Materials</i> , 2008, 17, 1-23.	1.9	7
40	Tolerance analysis tools for fixture design: a comparison. <i>Procedia CIRP</i> , 2020, 92, 112-117.	1.9	7
41	Position Deviation of a Holes Pattern Due to Six-Point Locating Principle. , 2007, , 201-211.		7
42	A general model to estimate hole location deviation in drilling: the contribution of three error sources. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 545-557.	3.0	7
43	A Geometric Algorithm to Evaluate the Thickness Distribution of Stretched Sheets through Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1905.	2.5	6
44	Design of a New Feed-Deposition Head for Robotized Filament Winding. , 2002, , 31.		5
45	An analytical approach to machining deviation due to fixturing. , 2003, , 175-184.		5
46	Optimal design of blank thickness in superplastic AZ31 alloy to decrease forming time and product weight. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , 1.	3.0	5
47	Machining Planning for Tolerance Synthesis. <i>Machining Science and Technology</i> , 2003, 7, 333-347.	2.5	4
48	Structural analysis for flexible components with freeform surfaces with the aid of a coordinate measuring machine. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2012, 226, 399-411.	2.4	4
49	Monitoring of Diamond Mill Wear in Time Domain during Stone Cutting Using Cutting Force Measurements. <i>Advances in Mechanical Engineering</i> , 2009, 1, 353504.	1.6	4
50	Adhesion of Polypropylene Surfaces Treated by Cold Plasma. , 2002, , .		3
51	AR Models to Forecast Roving Tension Trend in a Robotized Filament Winding Cell. <i>Materials and Manufacturing Processes</i> , 2006, 21, 870-876.	4.7	3
52	Actual Safety Distance and Winding Tension to Manufacture Full Section Parts by Robotized Filament Winding. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006, 128, 393-400.	1.4	3
53	Evaluation of the spring-in of CFRP thin laminates in dependence on process variation. <i>Procedia CIRP</i> , 2018, 75, 415-420.	1.9	3
54	Comparison between two numerical tools for geometrical deviation analysis in composite assemblies. <i>Procedia CIRP</i> , 2020, 92, 100-105.	1.9	3

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55	A Unique Model to Estimate Geometric Deviations in Drilling and Milling Due to Two Uncertainty Sources. Applied Sciences (Switzerland), 2021, 11, 1996.	2.5	3
56	Measurement of high flexibility components in composite material: critical issues and possible solutions. International Journal of Advanced Manufacturing Technology, 2019, 103, 1529-1542.	3.0	2
57	Two numerical tools for geometrical deviation management in composite assemblies: a comparison. Journal of Composite Materials, 2021, 55, 1185-1196.	2.4	1
58	Glue modelling in variation management of compliant assemblies: critical issues and possible solutions. International Journal of Computer Integrated Manufacturing, 2021, 34, 532-548.	4.6	1
59	Strain State in Metal Sheet Axisymmetric Stretching with Variable Initial Thickness: Numerical and Experimental Results. Applied Sciences (Switzerland), 2021, 11, 8265.	2.5	1
60	Influence of the Initial Blank Geometry on the Final Thickness Distribution of the Hemispheres in Superplastic AZ31 Alloy. Applied Sciences (Switzerland), 2022, 12, 1912.	2.5	1
61	Kriging quick adaptive sampling for multivariate optimization. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	0