Samuel Gl

List of Publications by Year
in descending order

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62 papers	1,490 citations	394421 19 h-index	330143 37 g-index
63 all docs	63 docs citations	63 times ranked	1033 citing authors

#	Article	IF	Citations
1	Some studies on hard turning of AISI 4340 steel using multilayer coated carbide tool. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1872-1884.	5.0	195
2	Machinability investigations on hardened AISI 4340 steel using coated carbide insert. International Journal of Refractory Metals and Hard Materials, 2012, 33, 75-86.	3.8	176
3	Surface texturing for tribology enhancement and its application on drill tool for the sustainable machining of titanium alloy. Journal of Cleaner Production, 2017, 167, 253-270.	9.3	109
4	Evaluation of circularity from coordinate and form data using computational geometric techniques. Precision Engineering, 2000, 24, 251-263.	3.4	104
5	Evaluation of straightness and flatness error using computational geometric techniques. CAD Computer Aided Design, 1999, 31, 829-843.	2.7	75
6	Pulse train data analysis to investigate the effect of machining parameters on the performance of wire electro discharge turning (WEDT) process. International Journal of Machine Tools and Manufacture, 2010, 50, 775-788.	13.4	69
7	Multi-objective optimization of material removal rate and surface roughness in wire electrical discharge turning. International Journal of Advanced Manufacturing Technology, 2013, 67, 2021-2032.	3.0	66
8	State-of-the-art research in machinability of hardened steels. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 191-209.	2.4	61
9	Theoretical and experimental investigations of ultra-short pulse laser interaction on Ti6Al4V alloy. Journal of Materials Processing Technology, 2019, 263, 266-275.	6.3	51
10	Evaluation of circularity and sphericity from coordinate measurement data. Journal of Materials Processing Technology, 2003, 139, 90-95.	6.3	47
11	Modeling, measurement, and evaluation of spindle radial errors in a miniaturized machine tool. International Journal of Advanced Manufacturing Technology, 2012, 59, 445-461.	3.0	44
12	Evaluation of sphericity error from form data using computational geometric techniques. International Journal of Machine Tools and Manufacture, 2002, 42, 405-416.	13.4	41
13	Effect of probe size and measurement strategies on assessment of freeform profile deviations using coordinate measuring machine. Measurement: Journal of the International Measurement Confederation, 2011, 44, 832-841.	5.0	41
14	Cutting mode analysis in high speed finish turning of AlMgSi alloy using edge chamfered PCD tools. Journal of Materials Processing Technology, 2015, 216, 146-159.	6.3	41
15	Modeling and analysis of crater formation during wire electrical discharge turning (WEDT) process. International Journal of Advanced Manufacturing Technology, 2015, 77, 1229-1247.	3.0	40
16	Mechanistic and Finite Element Model for Prediction of Cutting Forces During Micro-Turning of Titanium Alloy. Machining Science and Technology, 2015, 19, 593-629.	2.5	30
17	Analysis on the effect of discharge energy on machining characteristics of wire electrical discharge turning process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 2064-2081.	2.4	28
18	Practical Measurement Strategies for Verification of Freeform Surfaces Using Coordinate Measuring Machines. Metrology and Measurement Systems, 2011, 18, 209-222.	1.4	27

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19	Evaluation of sphericity error from coordinate measurement data using computational geometric techniques. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 6765-6781.	6.6	21
20	Measurement, Modeling and Evaluation of Surface Parameter Using Capacitive-Sensor-Based Measurement System. Metrology and Measurement Systems, 2011, 18, 403-418.	1.4	21
21	Predictive Modeling of Cutting Forces and Tool Wear in Hard Turning using Response Surface Methodology. Procedia Engineering, 2012, 38, 73-81.	1.2	18
22	Investigation on the conveying velocity of a linear vibratory feeder while handling bulk-sized small parts. International Journal of Advanced Manufacturing Technology, 2009, 44, 372-382.	3.0	16
23	Analysis of cutting forces and surface roughness in hard turning of AISI 4340 using multilayer coated carbide tool. International Journal of Machining and Machinability of Materials, 2014, 16, 169.	0.1	16
24	Investigations into Cutting Forces and Surface Roughness in Micro Turning of Titanium Alloy Using Coated Carbide Tool. , 2014, 5, 2450-2457.		15
25	Evaluation of Surface Profile Parameters of a Machined Surface Using Confocal Displacement Sensor. , 2014, 5, 1385-1391.		13
26	Finite Element Simulations of Micro Turning of Ti-6Al-4V using PCD and Coated Carbide tools. Journal of the Institution of Engineers (India): Series C, 2017, 98, 5-15.	1.2	12
27	Investigation into erosion rate of AISI 4340 steel during wire electrical discharge turning process. Machining Science and Technology, 2018, 22, 287-298.	2.5	11
28	Least square curve fitting technique for processing time sampled high speed spindle data. International Journal of Manufacturing Research, 2011, 6, 256.	0.2	10
29	Harmonic-analysis-based method for separation of form error during evaluation of high-speed spindle radial errors. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 837-852.	2.4	9
30	Machining of axisymmetric forms and helical profiles on cylindrical workpiece using wire cut EDM. International Journal of Machining and Machinability of Materials, 2012, 12, 252.	0.1	8
31	Surface Textured Drill Toolsâ€"An Effective Approach for Minimizing Chip Evacuation Force and Burr Formation During High Aspect Ratio Machining of Titanium Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	8
32	Support vector machine regression for predicting dimensional features of die-sinking electrical discharge machined components. Procedia CIRP, 2021, 99, 508-513.	1.9	7
33	Influence of machining parameters on microdrill performance. International Journal of Manufacturing Technology and Management, 2011, 22, 124.	0.1	6
34	Investigation into energy consumption, surface roughness and material removal rate of cylindrical components machined using wire electrical discharge turning process. International Journal of Manufacturing Technology and Management, 2013, 27, 170.	0.1	6
35	Characterization of dimensional features of mesoscale component using capacitive sensor. International Journal of Advanced Manufacturing Technology, 2015, 77, 1831-1849.	3.0	6
36	Ultrafast pulse laser inscription and surface quality characterization of micro-structured silicon wafer. Journal of Manufacturing Processes, 2021, 62, 323-336.	5.9	6

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37	Effect of micro double helical grooved tools on performance of electric discharge drilling of Ti-6Al-4V. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 1832-1847.	2.4	6
38	Non-linear model of energy consumption for in-process control in electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2020, 110, 1543-1561.	3.0	4
39	Optimisation of a machine loading problem using a genetic algorithm-based heuristic. International Journal of Productivity and Quality Management, 2015, 15, 36.	0.2	3
40	Monitoring of material-removal mechanism in micro-electrical discharge machining by pulse classification and acoustic emission signals. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, , 095440542092756.	2.4	3
41	An in-depth investigation into high fluence femtosecond laser percussion drilling of titanium alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0, , 095440542211109.	2.4	3
42	Compensation of installation errors in a laser vision system and dimensional inspection of automobile chassis. Journal of Mechanical Science and Technology, 2006, 20, 437-446.	1.5	2
43	Design and implementation of low cost automation system in heavy vehicle brakes assembly line. International Journal of Productivity and Quality Management, 2009, 4, 199.	0.2	2
44	Enhancement of dimensional accuracy of micro features by applying parametric error compensation to the miniaturised machine tool. International Journal of Computational Materials Science and Surface Engineering, 2010, 3, 373.	0.2	2
45	Modelling and verification of stability of micro-milling process. International Journal of Machining and Machinability of Materials, 2014, 16, 229.	0.1	2
46	Principles of Advanced Manufacturing Technologies for Biomedical Devices. Materials Horizons, 2022, , 361-402.	0.6	2
47	Manufacturability and surface characterisation of polymeric microfluidic devices for biomedical applications. International Journal of Advanced Manufacturing Technology, 0, , .	3.0	2
48	Determination and mapping of measurement and design coordinate systems using computational geometric techniques. International Journal of Advanced Manufacturing Technology, 2005, 26, 819-824.	3.0	1
49	Development of an Expert System for Designing of Automobile Dampers. , 2011, , .		1
50	Surface texturing of Tribological Interfaces â€“An Experimental Analysis. Procedia Manufacturing, 2019, 34, 33-41.	1.9	1
51	Fabrication and Characterization of Helical Grooved Cylindrical Electrodes Generated by WED Turning Process. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 437-449.	0.6	1
52	A 3D Voronoi diagram based form error estimation method for fast and accurate inspection of free-form surfaces. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110476.	5.0	1
53	Hybrid algorithm for determination of dimensional accuracy of automobile front chassis module using laser measurement data. Journal of Manufacturing Systems, 2005, 24, 122-130.	13.9	0
54	Investigations into modelling and assessment of theoretical profiles using capacitive sensor. International Journal of Mechatronics and Manufacturing Systems, 2013, 6, 288.	0.1	0

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55	Dynamic response of a micro end mill cutter by mode superposition method and study of damping effect on its dynamic performance. International Journal of Precision Technology, 2014, 4, 212.	0.2	0
56	Machining and Characterization of Double-Helical Grooves on Cylindrical Copper Parts by Wire Electric Discharge Turning. Materials Science Forum, 0, 1009, 117-122.	0.3	0
57	Synthesis and characterisation of nanoparticles by pulse laser ablation at solid-solid interface. International Journal of Precision Technology, 2021, 10, 74.	0.2	0
58	MEASUREMENT AND EVALUATION OF ASYNCHRONOUS RADIAL ERROR OF A HIGH SPEED SPINDLE. Series on Advances in Mathematics for Applied Sciences, 2012, , 350-357.	0.1	0
59	Characterization of Geometrical Features of Ultra-Short Pulse Laser-drilled Microholes Using Computed Tomography. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 603-614.	0.6	0
60	Machining of High-Quality Microchannels on Ti6Al4V Using Ultra-Short Pulsed Laser. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 411-422.	0.6	0
61	Numerical Analysis of Cutting Modes in High-Speed Machining of Aluminum Alloys with PCD and CBN Tool Inserts. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 313-325.	0.6	0
62	Experimental Investigation and Finite Element Modelling of Electrical Discharge Machining Using Hollow Electrodes and Injection Flushing. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 65-77.	0.6	0