

Paolo Albertelli

List of Publications by Year in descending order

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34
papers

845
citations

516710

16
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of prognostics and health management of machine tools. International Journal of Advanced Manufacturing Technology, 2020, 107, 2843-2863.	3.0	82
2	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
3	Energy oriented multi cutting parameter optimization in face milling. Journal of Cleaner Production, 2016, 137, 1602-1618.	9.3	64
4	A new receptance coupling substructure analysis methodology to improve chatter free cutting conditions prediction. International Journal of Machine Tools and Manufacture, 2013, 72, 16-24.	13.4	58
5	CFD and experimental analysis of the coolant flow in cryogenic milling. International Journal of Machine Tools and Manufacture, 2019, 140, 20-33.	13.4	51
6	Development of a generalized chatter detection methodology for variable speed machining. Mechanical Systems and Signal Processing, 2019, 123, 26-42.	8.0	48
7	The effects of dynamic interaction between machine tool subsystems on cutting process stability. International Journal of Advanced Manufacturing Technology, 2012, 58, 923-932.	3.0	42
8	Comparison of Ti6Al4V machining forces and tool life for cryogenic versus conventional cooling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 1403-1408.	2.4	41
9	On the mechanics of chip formation in Ti6Al4V turning with spindle speed variation. International Journal of Machine Tools and Manufacture, 2014, 77, 16-26.	13.4	38
10	Model-based broadband estimation of cutting forces and tool vibration in milling through in-process indirect multiple-sensors measurements. International Journal of Advanced Manufacturing Technology, 2016, 82, 779-796.	3.0	38
11	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
12	Wear behaviour of PVD coated and cryogenically treated tools for Ti-6Al-4V turning. International Journal of Material Forming, 2015, 8, 601-611.	2.0	31
13	Analysis of Energy Consumption in CNC Machining Centers and Determination of Optimal Cutting Conditions. , 2013, , 227-232.		27
14	Energy saving opportunities in direct drive machine tool spindles. Journal of Cleaner Production, 2017, 165, 855-873.	9.3	27
15	Spindle speed variation in turning: technological effectiveness and applicability to real industrial cases. International Journal of Advanced Manufacturing Technology, 2012, 62, 59-67.	3.0	26
16	Indirect Model Based Estimation of Cutting Force and Tool Tip Vibrational Behavior in Milling Machines by Sensor Fusion. Procedia CIRP, 2015, 33, 239-244.	1.9	23
17	Surface morphology prediction model for milling operations. International Journal of Advanced Manufacturing Technology, 2020, 106, 3189-3201.	3.0	19
18	A simulation approach for predicting energy use during general milling operations. International Journal of Advanced Manufacturing Technology, 2017, 90, 3187-3201.	3.0	16

#	ARTICLE	IF	CITATIONS
19	An Experimental Investigation of the Effects of Spindle Speed Variation on Tool Wear in Turning. <i>Procedia CIRP</i> , 2012, 4, 29-34.	1.9	13
20	Effect of metal foam on vibration damping and its modelling. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 2349-2358.	3.0	13
21	Active spindle system for a rotary planing machine. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 63, 1021-1034.	3.0	11
22	An Adaptive SPC Approach for Multi-sensor Fusion and Monitoring of Time-varying Processes. <i>Procedia CIRP</i> , 2013, 12, 61-66.	1.9	11
23	An Improved Receptance Coupling Substructure Analysis to Predict Chatter Free High Speed Cutting Conditions. <i>Procedia CIRP</i> , 2013, 12, 19-24.	1.9	11
24	Experimental investigation of the effects of cryogenic cooling on tool life in Ti6Al4V milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 2149-2161.	3.0	10
25	Energy assessment of different cooling technologies in Ti-6Al-4V milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 3279-3306.	3.0	9
26	The analysis of tool life and wear mechanisms in spindle speed variation machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 1051-1061.	3.0	8
27	Development of generalized tool life model for constant and variable speed turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 1885-1901.	3.0	6
28	A novel harmonic solution for chatter stability of time periodic systems. <i>Journal of Sound and Vibration</i> , 2021, 490, 115719.	3.9	5
29	Tube bending machine modelling for assessing the energy savings of electric drives technology. <i>Journal of Cleaner Production</i> , 2017, 154, 83-93.	9.3	4
30	A novel prognostics solution for machine tool sub-units: The hydraulic case. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2022, 236, 1199-1215.	2.4	3
31	Estimation of cutting and friction coefficients in dry and cryogenic milling through experiments and simulations. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
32	Experimental Evaluation of Innovative Tools for Ti-6Al-4V Turning. <i>Key Engineering Materials</i> , 0, 554-557, 1941-1952.	0.4	1
33	Experimental Investigation of Energy Saving Opportunities in Tube Bending Machines. <i>Procedia CIRP</i> , 2017, 62, 506-511.	1.9	0
34	Object-oriented modelling of a flexible beam including geometric nonlinearities. , 2017, , .		0