

Marcio Da Silva

List of Publications by Year in descending order

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55
papers

1,141
citations

430874

18
h-index

414414

32
g-index

55
all docs

55
docs citations

55
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Cutting temperature: prediction and measurement methods—a review. <i>Journal of Materials Processing Technology</i> , 1999, 88, 195-202.	6.3	204
2	Evaluation of the effect of application of cutting fluid at high pressure on tool wear during turning operation of AISI 316 austenitic stainless steel. <i>Wear</i> , 2013, 302, 1201-1208.	3.1	90
3	Intervening variables in electrochemical machining. <i>Journal of Materials Processing Technology</i> , 2006, 179, 92-96.	6.3	81
4	Tool wear monitoring in micromilling using Support Vector Machine with vibration and sound sensors. <i>Precision Engineering</i> , 2021, 67, 137-151.	3.4	65
5	Analysis of wear of cemented carbide cutting tools during milling operation of gray iron and compacted graphite iron. <i>Wear</i> , 2011, 271, 2426-2432.	3.1	45
6	Influence of the number of inserts for tool life evaluation in face milling of steels. <i>International Journal of Machine Tools and Manufacture</i> , 2004, 44, 695-700.	13.4	43
7	A probabilistic neural network applied in monitoring tool wear in the end milling operation via acoustic emission and cutting power signals. <i>Machining Science and Technology</i> , 2016, 20, 386-405.	2.5	39
8	Tungsten carbide micro-tool wear when micro milling UNS S32205 duplex stainless steel. <i>Wear</i> , 2018, 414-415, 109-117.	3.1	39
9	Burr produced on the drilling process as a function of tool wear and lubricant-coolant conditions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2009, 31, 57-63.	1.6	34
10	Development of a tool—work thermocouple calibration system with physical compensation to study the influence of tool-holder material on cutting temperature in machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 73, 735-747.	3.0	33
11	Estimation of heat flux and temperature field during drilling process using dynamic observers based on Green's function. <i>Applied Thermal Engineering</i> , 2012, 48, 144-154.	6.0	31
12	Tribological characterisation of PVD coatings for cutting tools. <i>Surface and Coatings Technology</i> , 2004, 184, 141-148.	4.8	30
13	Effect of Cutting Fluid on Micromilling of Ti-6Al-4V Titanium Alloy. <i>Procedia Manufacturing</i> , 2016, 5, 332-347.	1.9	28
14	Wear of TiAlN and DLC coated microtools in micromilling of Ti-6Al-4V alloy. <i>Journal of Manufacturing Processes</i> , 2020, 56, 337-349.	5.9	27
15	Identification of cutting tool wear condition in turning using self-organizing map trained with imbalanced data. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 127-140.	7.3	27
16	Study of burr behavior in face milling of PH 13-8 Mo stainless steel. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2015, 8, 34-42.	4.5	25
17	Influence of Copper Content on 6351 Aluminum Alloy Machinability. <i>Procedia Manufacturing</i> , 2015, 1, 683-695.	1.9	21
18	Surface integrity and tool life when turning of Ti-6Al-4V with coolant applied by different methods. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1893-1902.	3.0	19

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19	Tribological evaluation of TiN and TiAlN coated PM-HSS gear cutter when machining 19MnCr5 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 31, 629-637.	3.0	18
20	Analysis of tapping process in three types of cast iron. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 1041-1048.	3.0	18
21	Study of the internal thread process with cut and form taps according to secondary characteristics of the process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 2357-2368.	3.0	18
22	Investigation of burr formation and tool wear in micromilling operation of duplex stainless steel. <i>Precision Engineering</i> , 2019, 60, 178-188.	3.4	18
23	Lubrication and application method in machining. <i>Industrial Lubrication and Tribology</i> , 1998, 50, 149-152.	1.3	14
24	Influence of cutting fluid application frequency on the surface quality of micromilled slots on Inconel 718 alloy. <i>Procedia Manufacturing</i> , 2020, 48, 553-558.	1.9	14
25	Influence of tellurium addition on drilling of microalloyed steel (DIN 38MnS6). <i>Industrial Lubrication and Tribology</i> , 2011, 63, 420-426.	1.3	13
26	Burr height minimization using the response surface methodology in milling of PH 13-8 Mo stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 3485-3496.	3.0	13
27	Spheroidal chip in micromilling. <i>Wear</i> , 2019, 426-427, 1672-1682.	3.1	12
28	An approach to torque and temperature thread by thread on tapping. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 4891-4901.	3.0	12
29	Experimental and computational contribution to chip geometry evaluation when micromilling Inconel 718. <i>Wear</i> , 2021, 476, 203658.	3.1	12
30	Application of factorial design for studying the burr behaviour during face milling of motor engine blocks. <i>Journal of Materials Processing Technology</i> , 2006, 179, 154-160.	6.3	11
31	Performance of Synthetic and Mineral Soluble Oil When Turning AISI 8640 Steel. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1997, 119, 580-586.	2.2	9
32	Study of burr height in face milling of PH 13-8 Mo stainless steel – Transition from primary to secondary burr and benefits of deburring between passes. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2015, 10, 61-67.	4.5	9
33	Micro-machining of additively manufactured metals: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 2059-2078.	3.0	9
34	Analyses of Effects of Cutting Parameters on Cutting Edge Temperature Using Inverse Heat Conduction Technique. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	8
35	A comparative study of two indirect methods to monitor surface integrity of ground components. <i>Structural Health Monitoring</i> , 2020, 19, 1856-1870.	7.5	8
36	Predicting chip and non-chip formation when micromachining Ti-6Al-4V titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 955-985.	3.0	7

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37	Statistical analysis of cutting forces and hole accuracy in reaming an Al-Si-Mg alloy (6351) with different copper contents. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	6
38	Performance of high-speed steel taps at high cutting speed. International Journal of Machining and Machinability of Materials, 2007, 2, 299.	0.1	5
39	Study of the application of sunflower oil in the process of drilling ABNT 1045 steel,. Acta Scientiarum - Technology, 2014, 36, 257.	0.4	5
40	Advances in the Turning of Titanium Alloys with Carbide and Superabrasive Cutting Tools. Advanced Materials Research, 2016, 1135, 234-254.	0.3	5
41	Experimental study of micromilling operation of stainless steel. International Journal of Advanced Manufacturing Technology, 2020, 111, 3123-3139.	3.0	4
42	AvaliaÃ§Ã£o de superfÃcies usinadas por diferentes fluidos dieÃ©tricos no processo de usinagem por eletroerosÃ£o. Revista Escola De Minas, 2003, 56, 91-96.	0.1	2
43	Built-Up-Edge Formation in Micromilling. , 2015, , .		2
44	Estimation of a Moving Heat Source due to a Micromilling Process Using the Modified TFBCF Technique. Mathematical Problems in Engineering, 2018, 2018, 1-8.	1.1	2
45	AvaliaÃ§Ã£o da influÃncia do fluido de corte na formaÃ§Ã£o de rebarbaS no microfresamento DE INCONEL 718 e aÃ§o InoxidÃvel duplex UNS S32205 / Evaluation of the cutting fluid influence in the burr formation when micro milling INCONEL 718 and UNS S32205 duplex stainless steel. Brazilian Journal of Development, 2021, 7, 56931-56944.	0.1	2
46	Surface finish and lubrication at low cutting speeds. Materials Science and Technology, 1999, 15, 221-225.	1.6	1
47	Effect of Silicon Content of Aluminum Alloy 6351 in Turning Process. , 2012, , .		1
48	Computational analysis of turning G10530 steel to eliminate chip crowding using variable cutting speeds. International Journal of Advanced Manufacturing Technology, 2017, 92, 2341-2363.	3.0	1
49	Modeling and Machining of Medical Materials. , 2015, , 231-271.		1
50	Study of machinability of VP 100 steel with different levels of titanium in end milling operations. Acta Scientiarum - Technology, 2015, 37, 41.	0.4	0
51	Machining medical grade titanium alloys using nonabrasive nanolayered cutting tools. , 2015, , 225-248.		0
52	Economic Analysis of Machining with Nanostructured Coatings. , 2015, , 177-199.		0
53	Analysis of Machining Hardened Steels Using Coated Cutting Tools. , 2015, , 201-230.		0
54	Atomic Scale Machining of Medical Materials. , 2016, , 1-54.		0

#	ARTICLE	IF	CITATIONS
55	Proposta de trabalho: Estudo da influência da aplicação de fluido de corte à alta pressão durante o fresamento do aço ABNT 1045 / Work Proposal: Study of the influence of high pressure cutting fluid application during milling of ABNT 1045 steel. Brazilian Journal of Development, 2021, 7, 97523-97529.	0.1	0