MoisÃ©s Batista

List of Publications by Year in descending order

85 papers	1,064 citations	567281 15 h-index	501196 28 g-index
87 all docs	87 docs citations	87 times ranked	883 citing authors

#	Article	IF	Citations
1	Analysis of the evolution of the Built-Up Edge and Built-Up Layer formation mechanisms in the dry turning of aeronautical aluminium alloys. Wear, 2013, 302, 1209-1218.	3.1	139
2	Influence of PLA Filament Conditions on Characteristics of FDM Parts. Materials, 2018, 11, 1322.	2.9	109
3	Achieving a sustainable shipbuilding supply chain under I4.0 perspective. Journal of Cleaner Production, 2020, 244, 118789.	9.3	95
4	Impact of Chemical Post-Processing in Fused Deposition Modelling (FDM) on Polylactic Acid (PLA) Surface Quality and Structure. Polymers, 2019, 11, 566.	4.5	52
5	Application of Pin-On-Disc Techniques for the Study of Tribological Interferences in the Dry Machining of A92024-T3 (Alâ€“Cu) Alloys. Materials, 2018, 11, 1236.	2.9	42
6	Cutting Forces Parametric Model for the Dry High Speed Contour Milling of Aerospace Aluminium Alloys. Procedia Engineering, 2013, 63, 735-742.	1.2	33
7	Study of the surface quality of carbon fiberâ€“reinforced thermoplastic matrix composite (CFRTP) machined by abrasive water jet (AWJM). International Journal of Advanced Manufacturing Technology, 2020, 107, 3299-3313.	3.0	32
8	Kerf Taper Defect Minimization Based on Abrasive Waterjet Machining of Low Thickness Thermoplastic Carbon Fiber Composites C/TPU. Materials, 2019, 12, 4192.	2.9	28
9	Sustainability in the Aerospace, Naval, and Automotive Supply Chain 4.0: Descriptive Review. Materials, 2020, 13, 5625.	2.9	23
10	Preliminary Design and Analysis of Tensile Test Samples Developed by Additive Manufacturing. Procedia Engineering, 2015, 132, 132-139.	1.2	20
11	Tool Wear Mechanism in Cutting of Stack CFRP/UNS A97075. Materials, 2018, 11, 1276.	2.9	19
12	Preliminary study of PLA wire colour effects on geometric characteristics of parts manufactured by FDM. Procedia Manufacturing, 2017, 13, 924-931.	1.9	18
13	Shipbuilding 4.0 Index Approaching Supply Chain. Materials, 2019, 12, 4129.	2.9	18
14	Characterization and Defect Analysis of Machined Regions in Al-SiC Metal Matrix Composites Using an Abrasive Water Jet Machining Process. Applied Sciences (Switzerland), 2020, 10, 1512.	2.5	18
15	Criteria selection for a comparative study of functional performance of Fused Deposition Modelling and Vacuum Casting processes. Journal of Manufacturing Processes, 2018, 35, 721-727.	5.9	16
16	Surface Quality and Free Energy Evaluation of s275 Steel by Shot Blasting, Abrasive Water Jet Texturing and Laser Surface Texturing. Metals, 2020, 10, 290.	2.3	16
17	Reverse Engineering Based Methodology for Modelling Cutting Tools. Procedia Engineering, 2015, 132, 1144-1151.	1.2	15
18	Effects of Laser Microtexturing on the Wetting Behavior of Ti6Al4V Alloy. Coatings, 2018, 8, 145.	2.6	15

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19	Study of the Tool Wear Process in the Dry Turning of Alâ€“Cu Alloy. Metals, 2019, 9, 1094.	2.3	15
20	Fused deposition modelling interfacial and interlayer bonding in PLA post-processed parts. Rapid Prototyping Journal, 2019, 26, 585-592.	3.2	15
21	Processing and Quality Evaluation of Additive Manufacturing Monolayer Specimens. Advances in Materials Science and Engineering, 2016, 2016, 1-8.	1.8	14
22	Effects of Laser Processing Parameters on Texturized Layer Development and Surface Features of Ti6Al4V Alloy Samples. Coatings, 2018, 8, 6.	2.6	14
23	Defect Analysis and Detection of Cutting Regions in CFRP Machining Using AWJM. Materials, 2019, 12, 4055.	2.9	14
24	Analysis of Secondary Adhesion Wear Mechanism on Hard Machining of Titanium Aerospace Alloy. Materials, 2019, 12, 2015.	2.9	13
25	A SEM and EDS based Study of the Microstructural Modifications of Turning Inserts in the Dry Machining of Ti6Al4V Alloy. , 2009, , .		12
26	Parametric Potential Model for Determining the Microgeometrical Deviations of Horizontally Dry-Turned UNS A97075 (Alâ€“Zn) Alloy. Advanced Science Letters, 2013, 19, 731-735.	0.2	12
27	FEM based evaluation of Fused Layer Modelling monolayers in tensile testing. Procedia Manufacturing, 2017, 13, 916-923.	1.9	11
28	Experimental Parametric Model for Adhesion Wear Measurements in the Dry Turning of an AA2024 Alloy. Materials, 2018, 11, 1598.	2.9	11
29	On the Machinability of an Al-63%SiC Metal Matrix Composite. Materials, 2020, 13, 1186.	2.9	11
30	Sustainable Manufacturing in Aerospace Industry â€“ Analysis of the Viability of Intermediate Stages Elimination in Sheet Processing. Advanced Materials Research, 0, 107, 9-14.	0.3	10
31	SOM-SEM-EDS Identification of Tool Wear Mechanisms in the Dry-Machining of Aerospace Titanium Alloys. Advanced Materials Research, 2010, 107, 77-82.	0.3	10
32	Identification, Analysis and Evolution of the Mechanisms of Wear for Secondary Adhesion for Dry Turning Processes of Al-Cu Alloys. Advanced Materials Research, 2010, 107, 141-146.	0.3	10
33	Assessing Sustainability in the Shipbuilding Supply Chain 4.0: A Systematic Review. Sustainability, 2020, 12, 6373.	3.2	10
34	Study of milling of low thickness thermoplastic carbon fiber composites in function of tool geometry and cutting conditions. International Journal of Advanced Manufacturing Technology, 2021, 114, 2515-2526.	3.0	10
35	Cutting Speed-Feed Based Parametric Model for Macro-Geometrical Deviations in the Dry Turning of UNS A92024 Al-Cu Alloys. Key Engineering Materials, 0, 504-506, 1311-1316.	0.4	9
36	On the Surface Quality of CFRTP/Steel Hybrid Structures Machined by AWJM. Metals, 2020, 10, 983.	2.3	9

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37	Evaluation of the printing strategies design on the mechanical and tribological response of acrylonitrile styrene acrylate (ASA) additive manufacturing parts. Rapid Prototyping Journal, 2022, 28, 479-489.	3.2	9
38	SOM based Methodology for Evaluating Shrinkage Parameter of the Chip Developed in Titanium Dry Turning Process. Procedia CIRP, 2013, 8, 534-539.	1.9	8
39	FVM Based Study of the Influence of Secondary Adhesion Tool Wear on Surface Roughness of Dry Turned Al-Cu Aerospace Alloy. Procedia Engineering, 2015, 132, 600-607.	1.2	8
40	Three-dimensional chemical mapping using non-destructive SEM and photogrammetry. Scientific Reports, 2018, 8, 11000.	3.3	8
41	Using Image Analysis Techniques for Single Evaluation of the Chip Shrinkage Factor in Orthogonal Cutting Process. Key Engineering Materials, 2012, 504-506, 1329-1334.	0.4	7
42	Evaluation of geometrical defects in AWJM process of a hybrid CFRTP/Steel structure. International Journal of Mechanical Sciences, 2021, 210, 106748.	6.7	7
43	Image Based Analysis Evaluation of the Elements of Secondary Adhesion Wear in Dry Turning of Aluminum Alloys. Advanced Materials Research, 2012, 498, 133-138.	0.3	6
44	FVM based Methodology for Evaluating Adhesion Wear of Cutting Tools. Procedia CIRP, 2013, 8, 552-557.	1.9	6
45	Study of the FDM Parameters of the ABS Parts in the Surface Quality after Machining Operations. Key Engineering Materials, 0, 813, 203-208.	0.4	6
46	Evaluation of the Joining Response of Biodegradable Polylactic Acid (PLA) from Fused Deposition Modeling by Infrared Laser Irradiation. Polymers, 2020, 12, 2479.	4.5	6
47	Metrological Evaluation of Secondary Adhesion Wear Effects in the Dry Turning of UNS-A92024-T3 Alloy through Focus-variation Microscopy (FVM). Procedia Engineering, 2013, 63, 804-811.	1.2	5
48	Experimental Study of Laser Texturing Processes on the Lubricant Retention of Carbide (WC-Co) Surfaces. Key Engineering Materials, 2019, 813, 55-61.	0.4	5
49	Digital Modeling of End-Mill Cutting Tools for FEM Applications from the Active Cutting Contour. Advanced Materials Research, 0, 498, 61-66.	0.3	4
50	A Study of Macrogeometrical Deviations in the Dry Turning of UNS R56400 Ti Alloy. Applied Mechanics and Materials, 0, 152-154, 613-617.	0.2	4
51	Study of the one-shot drilling of CFRP/Ti6Al4V stacks with a double tip angle cutting-tool geometry. AIP Conference Proceedings, 2019, , .	0.4	4
52	Preliminary Study of the Influence of Manufacturing Parameters in Fused Deposition Modeling. Annals of DAAAM & Proceedings, 2016, , 1004-1008.	0.1	4
53	POST-PROCESSING OF PLA PARTS AFTER ADDITIVE MANUFACTURING BY FDM TECHNOLOGY. Dyna (Spain), 2018, 93, 625-629.	0.2	4
54	Tribological Wear Effects of Laser Texture Design on AISI 630 Stainless Steel under Lubricated Conditions. Metals, 2022, 12, 543.	2.3	4

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55	CAL-CBT Based Virtual Learning and Training in Machining Engineering. A Case Study: CNC Lathe. Materials Science Forum, 0, 625, 19-28.	0.3	3
56	Low Environmental Impact Machining Processes of Composite Materials Applied to the Aerospace Sector. Advanced Materials Research, 2010, 107, 15-19.	0.3	3
57	An XPS Study of the Stratified Built-up Layers Developed onto the Tool Surface in the Dry Drilling of Ti Alloys. Advanced Materials Research, 0, 223, 564-572.	0.3	3
58	Roughness Based Analysis of the Influence of Tool Coating in the Dry Turning of UNS R56400 Ti Alloy. Applied Mechanics and Materials, 2012, 152-154, 647-652.	0.2	3
59	3D-FEM Based Methodology for Analysing Contour Milling Processes of Ti Alloys. Procedia Engineering, 2015, 132, 1136-1143.	1.2	3
60	R&D&i Management System in Distributed Manufacturing Systems. Procedia Engineering, 2015, 132, 54-61.	1.2	3
61	A Comparison of Macro and Microgeometrical Properties of Specimens Made With a FDM Commercial Printer and its Opensource Retrofit Version. Annals of DAAAM & Proceedings, 2018, , 1108-1115.	0.1	3
62	Tribological characterization of Fused Deposition Modelling parts. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012068.	0.6	3
63	Microgeometrical Deviations based Study of CFRP Drilled-holes. Procedia Engineering, 2015, 132, 624-631.	1.2	2
64	Laser surface texturing as a finishing process for aerospace alloys. , 2021, , 643-666.		2
65	Evolution of the Surface Quality in the High Speed Milling of Aerospace Aluminum Alloys. Advanced Science Letters, 2013, 19, 379-383.	0.2	2
66	Principal Components Based Analysis of Surface Quality of Horizontal Turned Samples. Advanced Science Letters, 2013, 19, 363-368.	0.2	2
67	Analysis of the Influence of Thermal Treatment on the Dry Turning of Al-Cu Alloys. , 2009, , .		1
68	Strategy Games Applied to the Teaching of Plant Engineering. Materials Science Forum, 2011, 692, 99-103.	0.3	1
69	Design and Development of Integrated Lab-Practical Class in Manufacturing Engineering. Materials Science Forum, 2013, 759, 27-38.	0.3	1
70	Cutting Speed and Feedrate Based Analysis of Cutting Forces in the One Shot Drilling (OSD) of CFRC/Al Hybrid Stacks. , 2014, , .		1
71	Cutting Forces Prediction in the Dry Slotting of Aluminium Stacks. Materials Science Forum, 0, 797, 47-52.	0.3	1
72	Taylorâ€™s Model Based Analysis of Turning Inserts Tool-Life in the Dry Turning of UNS R56400 Alloy. , 2014, , .		1

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73	Defectology Characterization of FDM Drilled Parts. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012054.	0.6	1
74	A Comparative Study of Different Contour Machining Processes of UNS A92024-T3 Alloy. , 2009, , .		0
75	Surface Finishingâ€"Chip Arrangement Relationship in the Dry Turning of Aerospace Titanium Alloys. , 2009, , .		0
76	Implementation of â€œResearch Works Based Learningâ€•to the Manufacturing with Material Removalâ€™s Teaching Process. Materials Science Forum, 0, 692, 50-57.	0.3	0
77	Analysis of the elements of secondary adhesion wear in dry turning of aluminum alloys. , 2012, , .		0
78	Digital modeling of end-mill cutting tools for FEM applications from the active cutting contour. , 2012, , .		0
79	Evaluation of Cutting Tools Secondary Adhesion Wear Using 3D Optical Topography Techniques â€" Application to Dry Turning of Al-Cu Aerospace Alloy. Materials Science Forum, 2014, 797, 53-58.	0.3	0
80	A Single Students' Experience for Visualizing Completely a Semester Subject. Materials Science Forum, 0, 853, 1-6.	0.3	0
81	Analysis of secondary adhesion tool wear effects on surface roughness in dry turning process of UNS A92024 aluminium alloy. International Journal of Mechatronics and Manufacturing Systems, 2017, 10, 23.	0.1	0
82	Machining of polymeric composite materials by water jet with abrasive. , 2021, , 397-415.		0
83	Supply chain production planning of a manufacturing project system 4.0: case study: Shipbuilding. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012051.	0.6	0
84	Machining of Al-Cu and Al-Zn Alloys for Aeronautical Components. , 0, , .		0
85	Preliminary Characterization of the Rivet Shaving Process. Annals of DAAAM & Proceedings, 2018, , 1116-1124.	0.1	0