

François Ducobu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Sensitivity Analysis of Various Geometries of PCD and Cemented Tungsten Carbide Cutting Tools during the Milling of GFRP Composite. <i>Polymers</i> , 2022, 14, 1524.	4.5	6
2	Surface finishing of EBM parts by (electro-)chemical etching. <i>Procedia CIRP</i> , 2022, 108, 112-117.	1.9	4
3	Hole quality analysis of AISI 304-GFRP stacks using robotic drilling. <i>Procedia CIRP</i> , 2022, 108, 436-441.	1.9	1
4	Identification of the Parameter Values of the Constitutive and Friction Models in Machining Using EGO Algorithm: Application to Ti6Al4V. <i>Metals</i> , 2022, 12, 976.	2.3	4
5	On the selection of an empirical material constitutive model for the finite element modeling of Ti6Al4V orthogonal cutting, including the segmented chip formation. <i>International Journal of Material Forming</i> , 2021, 14, 361-374.	2.0	9
6	Experimental investigation on green ceramic machining with nanosecond laser source. <i>Journal of Manufacturing Processes</i> , 2021, 61, 245-253.	5.9	3
7	Binder influence on green ceramic machining by means of milling and laser machining. <i>Procedia CIRP</i> , 2021, 101, 206-209.	1.9	2
8	Influence of Constitutive Models and the Choice of the Parameters on FE Simulation of Ti6Al4V Orthogonal Cutting Process for Different Uncut Chip Thicknesses. <i>Journal of Manufacturing and Materials Processing</i> , 2021, 5, 56.	2.2	3
9	Inverse Identification of the Ductile Failure Law for Ti6Al4V Based on Orthogonal Cutting Experimental Outcomes. <i>Metals</i> , 2021, 11, 1154.	2.3	6
10	Green Ceramic Machining: Determination of the Recommended Feed Rate for Y-TZP Milling. <i>Journal of Composites Science</i> , 2021, 5, 231.	3.0	5
11	A Systematic Literature Review of Cutting Tool Wear Monitoring in Turning by Using Artificial Intelligence Techniques. <i>Machines</i> , 2021, 9, 351.	2.2	25
12	Influence of Conventional Machining on Chemical Finishing of Ti6Al4V Electron Beam Melting Parts. <i>Procedia Manufacturing</i> , 2020, 47, 1036-1042.	1.9	6
13	Influence of the Choice of the Parameters on Constitutive Models and their Effects on the Results of Ti6Al4V Orthogonal Cutting Simulation. <i>Procedia Manufacturing</i> , 2020, 47, 458-465.	1.9	8
14	Green Ceramic Machining: Influence of the Cutting Speed and the Binder Percentage on the Y-TZP Behavior. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 50.	2.2	7
15	Surface drag analysis after Ti-6Al-4V orthogonal cutting using grid distortion. <i>Procedia CIRP</i> , 2020, 87, 372-377.	1.9	6
16	An Analytic Approach to the Cox Proportional Hazards Model for Estimating the Lifespan of Cutting Tools. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 27.	2.2	7
17	Cutting Tools Replacement: Toward a Holistic Framework. <i>IFAC-PapersOnLine</i> , 2020, 53, 227-232.	0.9	0
18	Prediction of local sintering in laser beam machining of green Y-TZP ceramic. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 225-228.	3.6	2

#	ARTICLE	IF	CITATIONS
19	Finite-element simulations of Al7075-T6 orthogonal cutting: Effect of part geometry and mesh on chip morphology and formation mechanism. AIP Conference Proceedings, 2019, , .	0.4	2
20	Chemical etching as a finishing process for electron beam melting (EBM) parts. AIP Conference Proceedings, 2019, , .	0.4	9
21	Performance simulation of different toolpaths in 2D1/2 pocket milling. AIP Conference Proceedings, 2019, , .	0.4	1
22	Comparison of Johnson-Cook and modified Johnson-Cook material constitutive models and their influence on finite element modelling of Ti6Al4V orthogonal cutting process. AIP Conference Proceedings, 2019, , .	0.4	7
23	Evaluation of different flow stress laws coupled with a physical based ductile failure criterion for the modelling of the chip formation process of Ti-6Al-4V under broaching conditions. Procedia CIRP, 2019, 82, 65-70.	1.9	7
24	Coupled Eulerian-Lagrangian (CEL) simulation for modelling of chip formation in AA2024-T3. Procedia CIRP, 2019, 82, 142-147.	1.9	14
25	Cutting Force Prediction in Robotic Machining. Procedia CIRP, 2019, 82, 509-514.	1.9	6
26	Behaviour of pre-sintered Y-TZP during machining operations: Determination of recommended cutting parameters. Journal of Manufacturing Processes, 2018, 32, 85-92.	5.9	13
27	2D simulations of orthogonal cutting of CFRP: Effect of tool angles on parameters of cut and chip morphology. AIP Conference Proceedings, 2018, , .	0.4	3
28	Estimation of the influence of tool wear on force signals: A finite element approach in AISI 1045 orthogonal cutting. AIP Conference Proceedings, 2018, , .	0.4	2
29	Dystamill: a framework dedicated to the dynamic simulation of milling operations for stability assessment. International Journal of Advanced Manufacturing Technology, 2018, 98, 2109-2126.	3.0	5
30	Impact of chemical polishing on surface roughness and dimensional quality of electron beam melting process (EBM) parts. AIP Conference Proceedings, 2018, , .	0.4	7
31	Corner smoothing of 2D milling toolpath using b-spline curve by optimizing the contour error and the feedrate. AIP Conference Proceedings, 2018, , .	0.4	1
32	Dynamic simulation of milling operations with small diameter milling cutters: effect of material heterogeneity on the cutting force model. Meccanica, 2017, 52, 35-44.	2.0	15
33	On the importance of the choice of the parameters of the Johnson-Cook constitutive model and their influence on the results of a Ti6Al4V orthogonal cutting model. International Journal of Mechanical Sciences, 2017, 122, 143-155.	6.7	107
34	The CEL Method as an Alternative to the Current Modelling Approaches for Ti6Al4V Orthogonal Cutting Simulation. Procedia CIRP, 2017, 58, 245-250.	1.9	45
35	Finite element modelling of 3D orthogonal cutting experimental tests with the Coupled Eulerian-Lagrangian (CEL) formulation. Finite Elements in Analysis and Design, 2017, 134, 27-40.	3.2	46
36	Mesh influence in orthogonal cutting modelling with the Coupled Eulerian-Lagrangian (CEL) method. European Journal of Mechanics, A/Solids, 2017, 65, 324-335.	3.7	36

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37	Influence on surface characteristics of electron beam melting process (EBM) by varying the process parameters. AIP Conference Proceedings, 2017, , .	0.4	10
38	Modelling of Pocket Milling Operation Considering Cutting Forces and CNC Control Inputs. Procedia CIRP, 2017, 58, 239-244.	1.9	4
39	Experimental and numerical investigation of the uncut chip thickness reduction in Ti6Al4V orthogonal cutting. Meccanica, 2017, 52, 1577-1592.	2.0	10
40	Effect of HIPping (Hot Isostatic Pressing) on electron beam melting Ti6Al4V parts after machining. AIP Conference Proceedings, 2016, , .	0.4	4
41	Material constitutive model and chip separation criterion influence on the modeling of Ti6Al4V machining with experimental validation in strictly orthogonal cutting condition. International Journal of Mechanical Sciences, 2016, 107, 136-149.	6.7	56
42	Application of the Coupled Eulerian-Lagrangian (CEL) method to the modeling of orthogonal cutting. European Journal of Mechanics, A/Solids, 2016, 59, 58-66.	3.7	96
43	The Mechanics of Machining Ultrafine-Grained Grade 2 Ti Processed Severe Plastic Deformation. Manufacturing Technology, 2016, 16, 627-633.	1.4	5
44	On the introduction of adaptive mass scaling in a finite element model of Ti6Al4V orthogonal cutting. Simulation Modelling Practice and Theory, 2015, 53, 1-14.	3.8	45
45	Characterisation of electron beam melting process on Ti6Al4V in order to guide finishing operation. International Journal of Rapid Manufacturing, 2015, 5, 320.	0.5	7
46	Comparison of Several Behaviour Laws Intended to Produce a Realistic Ti6Al4V Chip by Finite Elements Modelling. Key Engineering Materials, 2015, 651-653, 1197-1203.	0.4	9
47	Experimental contribution to the study of the Ti6Al4V chip formation in orthogonal cutting on a milling machine. International Journal of Material Forming, 2015, 8, 455-468.	2.0	30
48	Finite Element Prediction of the Tool Wear Influence in Ti6Al4V Machining. Procedia CIRP, 2015, 31, 124-129.	1.9	35
49	Uncertainty Management of Cutting Forces Parameters and its Effects on Machining Stability. Key Engineering Materials, 2015, 651-653, 1165-1170.	0.4	2
50	Numerical contribution to the comprehension of saw-toothed Ti6Al4V chip formation in orthogonal cutting. International Journal of Mechanical Sciences, 2014, 81, 77-87.	6.7	101
51	Influence of the Material Behavior Law and Damage Value on the Results of an Orthogonal Cutting Finite Element Model of Ti6Al4V. Procedia CIRP, 2013, 8, 379-384.	1.9	11
52	Dynamic Simulation of the Micro-Milling Process Including Minimum Chip Thickness and Size Effect. Key Engineering Materials, 2012, 504-506, 1269-1274.	0.4	7
53	A Lagrangian FEM Model to Produce Saw-Toothed Macro-Chip and to Study the Depth of Cut Influence on its Formation in Orthogonal Cutting of Ti6Al4V. Advanced Materials Research, 2011, 223, 3-11.	0.3	6
54	Use of Longitudinal Roughness Measurements as Tool End-of-Life Indicator in AISI 1045 Dry Longitudinal Turning. Materials Science Forum, 0, 986, 93-101.	0.3	2