

Joaquim Ciurana

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

3,748
citations

32
h-index

57
g-index

140
ext. papers

4,261
ext. citations

4.2
avg. IF

5.88
L-index

#	Paper	IF	Citations
132	Fatty acid synthase as a feasible biomarker for triple negative breast cancer stem cell subpopulation cultured on electrospun scaffolds. <i>Materials Today Bio</i> , 2021 , 12, 100155	9.9	1
131	Polycaprolactone Electrospun Scaffolds Produce an Enrichment of Lung Cancer Stem Cells in Sensitive and Resistant EGFRm Lung Adenocarcinoma. <i>Cancers</i> , 2021 , 13,	6.6	1
130	Cancer Cell Direct Bioprinting: A Focused Review. <i>Micromachines</i> , 2021 , 12,	3.3	2
129	Laser micro-welding of AZ92A magnesium wires using a fiber-laser: a preliminary study. <i>Procedia CIRP</i> , 2020 , 89, 33-38	1.8	1
128	Manufacture of PCL scaffolds through electrospinning technology to accommodate Triple Negative Breast Cancer cells culture. <i>Procedia CIRP</i> , 2020 , 89, 98-103	1.8	3
127	Fatty Acid Synthase Inhibitor G28 Shows Anticancer Activity in EGFR Tyrosine Kinase Inhibitor Resistant Lung Adenocarcinoma Models. <i>Cancers</i> , 2020 , 12,	6.6	1
126	Continuous Based Direct Ink Write for Tubular Cardiovascular Medical Devices. <i>Polymers</i> , 2020 , 13,	4.5	2
125	Real bifurcated vascular grafts manufacturing for tissue engineering. <i>Procedia CIRP</i> , 2020 , 89, 92-97	1.8	
124	PLA Electrospun Scaffolds for Three-Dimensional Triple-Negative Breast Cancer Cell Culture. <i>Polymers</i> , 2019 , 11,	4.5	20
123	The effect of weld line on tensile strength of polyphenylsulfone (PPSU) in ultrasonic micro-moulding technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 2391-2400	3.2	2
122	EGCG-Derivative G28 Shows High Efficacy Inhibiting the Mammosphere-Forming Capacity of Sensitive and Resistant TNBC Models. <i>Molecules</i> , 2019 , 24,	4.8	13
121	Stent [®] Manufacturing Field: Past, Present, and Future Prospects 2019 ,		3
120	Optimization of photocrosslinkable resin components and 3D printing process parameters. <i>Acta Biomaterialia</i> , 2019 , 97, 154-161	10.8	23
119	Selective Laser Sintering 2019 , 481-499		2
118	Three-Dimensional Manufactured Supports for Breast Cancer Stem Cell Population Characterization. <i>Current Drug Targets</i> , 2019 , 20, 839-851	3	3
117	Minimum Quantity Lubrication in Fibre Laser Processing For Permanent Stents Manufacturing. <i>Procedia Manufacturing</i> , 2019 , 41, 492-499	1.5	2
116	Electrospun Tubular Scaffold for Stenting Application: A Proof of Concept. <i>Procedia Manufacturing</i> , 2019 , 41, 312-319	1.5	2

115	Effect of the main process parameters on the mechanical strength of polyphenylsulfone (PPSU) in ultrasonic micro-moulding process. <i>Ultrasonics Sonochemistry</i> , 2018 , 46, 46-58	8.9	14
114	Customized cranial implant manufactured by incremental sheet forming using a biocompatible polymer. <i>Rapid Prototyping Journal</i> , 2018 , 24, 120-129	3.8	15
113	3D-printed bioabsorbable polycaprolactone stent: The effect of process parameters on its physical features. <i>Materials and Design</i> , 2018 , 137, 430-437	8.1	55
112	Characterizing Ultrasonic Micro-Molding Process of Polyetheretherketone (PEEK). <i>International Polymer Processing</i> , 2018 , 33, 442-452	1	10
111	3D-printed Tubular Scaffolds for Vascular Tissue Engineering. <i>Procedia CIRP</i> , 2018 , 68, 352-357	1.8	15
110	Design of a Scaffold Parameter Selection System with Additive Manufacturing for a Biomedical Cell Culture. <i>Materials</i> , 2018 , 11,	3.5	15
109	Screening of Additive Manufactured Scaffolds Designs for Triple Negative Breast Cancer 3D Cell Culture and Stem-Like Expansion. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
108	3D-Printed PCL/PLA Composite Stents: Towards a New Solution to Cardiovascular Problems. <i>Materials</i> , 2018 , 11,	3.5	72
107	Effects of different sterilization processes on the properties of a novel 3D-printed polycaprolactone stent. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2327-2335	3.2	18
106	Three-dimensional printed bone scaffolds: The role of nano/micro-hydroxyapatite particles on the adhesion and differentiation of human mesenchymal stem cells. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017 , 231, 555-564	1.7	69
105	Random Forest ensemble prediction of stent dimensions in microfabrication processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 879-893	3.2	8
104	Fibre laser cutting of polycaprolactone sheet for stents manufacturing: A feasibility study. <i>Optics and Laser Technology</i> , 2017 , 95, 113-123	4.2	22
103	Effect of fibre laser process on in-vitro degradation rate of a polycaprolactone stent a novel degradation study method. <i>Polymer Degradation and Stability</i> , 2017 , 142, 42-49	4.7	16
102	Fabrication of PCL/PLA Composite Tube for Stent Manufacturing. <i>Procedia CIRP</i> , 2017 , 65, 231-235	1.8	20
101	Electrospinning Parameters Selection to Manufacture Polycaprolactone Scaffolds for Three-dimensional Breast Cancer Cell Culture and Enrichment. <i>Procedia CIRP</i> , 2017 , 65, 267-272	1.8	6
100	Feasibility of manufacturing low aspect ratio parts of PLA by ultrasonic moulding technology. <i>Procedia Manufacturing</i> , 2017 , 13, 251-258	1.5	5
99	A decision-making tool based on decision trees for roughness prediction in face milling. <i>International Journal of Computer Integrated Manufacturing</i> , 2017 , 30, 943-957	4.3	11
98	Electrospinning PCL Scaffolds Manufacture for Three-Dimensional Breast Cancer Cell Culture. <i>Polymers</i> , 2017 , 9,	4.5	38

97	Trends in Nanomaterials and Processing for Drug Delivery of Polyphenols in the Treatment of Cancer and Other Therapies. <i>Current Drug Targets</i> , 2017 , 18, 135-146	3	11
96	FRF Estimation through Sweep Milling Force Excitation (SMFE). <i>Procedia CIRP</i> , 2016 , 46, 504-507	1.8	9
95	Integrated system approach to evaluate social, environmental and economics impacts of buildings for users of housings. <i>Energy and Buildings</i> , 2016 , 123, 106-118	7	16
94	Influence of processing conditions on manufacturing polyamide parts by ultrasonic molding. <i>Materials and Design</i> , 2016 , 98, 20-30	8.1	28
93	Breast Cancer Stem Cell Culture and Enrichment Using Poly(ϵ Caprolactone) Scaffolds. <i>Molecules</i> , 2016 , 21, 537	4.8	29
92	New method for medical devices design and manufacture: Case study of caprolactone implant. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401667254	1.2	
91	Analytical expressions for chatter analysis in milling operations with one dominant mode. <i>Journal of Sound and Vibration</i> , 2016 , 375, 403-421	3.9	29
90	Geometrical feature analysis of Co-Cr-Mo single tracks after selective laser melting processing. <i>Rapid Prototyping Journal</i> , 2015 , 21, 287-300	3.8	15
89	Influence of process parameters on surface quality of CoCrMo produced by selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 80, 985-995	3.2	50
88	Developing a simplified methodology to calculate Co ₂ /m ² emissions per year in the use phase of newly-built, single-family houses. <i>Energy and Buildings</i> , 2015 , 109, 90-107	7	11
87	Forming force and temperature effects on single point incremental forming of polyvinylchloride. <i>Journal of Materials Processing Technology</i> , 2015 , 219, 221-229	5.3	72
86	Thermal model for curing implantable silicone in the moulding process applied to tracheal stents. <i>Applied Thermal Engineering</i> , 2015 , 75, 1001-1010	5.8	2
85	Analyzing effects of cooling and lubrication conditions in micromilling of Ti6Al4V. <i>Journal of Cleaner Production</i> , 2015 , 87, 906-913	10.3	65
84	Process planning considerations for micromilling of mould cavities used in ultrasonic moulding technology. <i>Precision Engineering</i> , 2015 , 39, 252-260	2.9	4
83	Modeling pulsed laser micromachining of micro geometries using machine-learning techniques. <i>Journal of Intelligent Manufacturing</i> , 2015 , 26, 801-814	6.7	39
82	Spectrum Transmission Measurement of a Fiber Laser Beam in Polymethyl Metacrylate for Laser Sintering Processing. <i>Procedia Engineering</i> , 2015 , 132, 94-101		
81	Study of the Ultrasonic Molding Process Parameters for Manufacturing Polypropylene Parts. <i>Procedia Engineering</i> , 2015 , 132, 7-14		15
80	Evaluation of machine-tool motion accuracy using a CNC machining center in micro-milling processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 76, 219-228	3.2	4

79	Development of a scale of building construction systems according to CO 2 emissions in the use stage of their life cycle. <i>Building and Environment</i> , 2014 , 82, 618-627	6.5	16
78	Optimisation of face milling operations with structural chatter using a stability model based process planning methodology. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 70, 559-571	3.2	24
77	Dross formation and process parameters analysis of fibre laser cutting of stainless steel thin sheets. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 71, 1611-1621	3.2	19
76	Effects of the Selective Laser Melting manufacturing process on the properties of CoCrMo single tracks. <i>Metals and Materials International</i> , 2014 , 20, 873-884	2.4	18
75	Designing, prototyping and manufacturing medical devices: an overview. <i>International Journal of Computer Integrated Manufacturing</i> , 2014 , 27, 901-918	4.3	28
74	Modelling Laser Milling of Microcavities for the Manufacturing of DES with Ensembles. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-15	1.1	1
73	A novel simplified 3D skull model to predict cranial fracture patterns. <i>International Journal of Computer Integrated Manufacturing</i> , 2014 , 27, 927-935	4.3	1
72	Rapid tooling using 3D printing system for manufacturing of customized tracheal stent. <i>Rapid Prototyping Journal</i> , 2014 , 20, 2-12	3.8	50
71	Computer Fluid Dynamics Analysis for Efficient Cooling and Lubrication Conditions in Micromilling of Ti6Al4V Alloy. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 1494-1501	4.1	22
70	Effect of process parameters in nanosecond pulsed laser micromachining of PMMA-based microchannels at near-infrared and ultraviolet wavelengths. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 67, 1651-1664	3.2	32
69	The first systematic analysis of 3D rapid prototyped poly(ϵ -caprolactone) scaffolds manufactured through BioCell printing: the effect of pore size and geometry on compressive mechanical behaviour and in vitro hMSC viability. <i>Biofabrication</i> , 2013 , 5, 045004	10.5	92
68	Study of the Pore Formation on CoCrMo Alloys by Selective Laser Melting Manufacturing Process. <i>Procedia Engineering</i> , 2013 , 63, 361-369		78
67	Optimization of process parameters for pulsed laser milling of micro-channels on AISI H13 tool steel. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013 , 29, 209-218	9.2	80
66	Scanning Space Analysis in Selective Laser Melting for CoCrMo Powder. <i>Procedia Engineering</i> , 2013 , 63, 370-378		36
65	Selecting Process Parameters in RepRap Additive Manufacturing System for PLA Scaffolds Manufacture. <i>Procedia CIRP</i> , 2013 , 5, 152-157	1.8	71
64	Designing and Prototyping of New Device for Scapholunate Ligament Repair. <i>Procedia CIRP</i> , 2013 , 5, 270-275	1.8	4
63	Energy density analysis on single tracks formed by selective laser melting with CoCrMo powder material. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 68, 1103-1110	3.2	100
62	Multiobjective Optimization of Laser Milling Parameters of Microcavities for the Manufacturing of DES. <i>Materials and Manufacturing Processes</i> , 2013 , 28, 1370-1378	4.1	13

61	Experimental Introduction to Surface Roughness Parameters Measurement. <i>Materials Science Forum</i> , 2013 , 759, 63-71	0.4	1
60	New Opportunities and Challenges for Additive Manufacturing to Produce Biomedical Devices. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 283-288		0
59	New advances on tracheal stent manufacturing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 344-349		1
58	Biomedical production of implants by additive electro-chemical and physical processes. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 635-655	4.9	215
57	An integrated parameterized tool for designing a customized tracheal stent. <i>CAD Computer Aided Design</i> , 2012 , 44, 1173-1181	2.9	16
56	Nanosecond pulsed laser micromachining of PMMA-based microfluidic channels. <i>Journal of Manufacturing Processes</i> , 2012 , 14, 435-442	5	23
55	Prediction, monitoring and control of surface roughness in high-torque milling machine operations. <i>International Journal of Computer Integrated Manufacturing</i> , 2012 , 25, 1129-1138	4.3	22
54	Improvement of surface roughness models for face milling operations through dimensionality reduction. <i>Integrated Computer-Aided Engineering</i> , 2012 , 19, 179-197	5.2	15
53	Influence of process parameters on part quality and mechanical properties for DMLS and SLM with iron-based materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 60, 601-610	3.2	188
52	Experimental Analysis of Laser Micro-Machining Process Parameters. <i>Materials Science Forum</i> , 2012 , 713, 67-72	0.4	
51	A new application for food customization with additive manufacturing technologies 2012 ,		9
50	Cutting Tool Selection through Tool Wear, Cost, Power Consumption and Surface Roughness Analyses. <i>Advanced Materials Research</i> , 2012 , 498, 55-60	0.5	2
49	Customizing Food with an Additive Manufacturing Technology. <i>Materials Science Forum</i> , 2012 , 713, 43-48	0.4	
48	Experimental Analysis of Process Parameters to Manufacture Micro-Cavities by Micro-Milling. <i>Advanced Materials Research</i> , 2012 , 498, 91-96	0.5	1
47	Mechanical characterisation of metal material properties in additive layer processes. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2012 , 5, 189	0.8	1
46	An experimental analysis of process parameters for the milling of micro-channels in biomaterials. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2012 , 5, 46	0.8	2
45	Methodology for analyzing the depth of sintering in the building platform 2011 , 495-498		6
44	Cost estimation support tool for vertical high speed machines based on product characteristics and productivity requirements. <i>International Journal of Production Economics</i> , 2011 , 134, 188-195	9.3	20

43	Design of a decision support system for machine tool selection based on machine characteristics and performance tests. <i>Journal of Intelligent Manufacturing</i> , 2011 , 22, 263-277	6.7	26
42	Tool electrode geometry and process parameters influence on different feature geometry and surface quality in electrical discharge machining of AISI H13 steel. <i>Journal of Intelligent Manufacturing</i> , 2011 , 22, 575-584	6.7	20
41	Surface roughness monitoring application based on artificial neural networks for ball-end milling operations. <i>Journal of Intelligent Manufacturing</i> , 2011 , 22, 607-617	6.7	71
40	Use of NC kernel data for surface roughness monitoring in milling operations. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 53, 953-962	3.2	19
39	BioCell Printing: Integrated automated assembly system for tissue engineering constructs. <i>CIRP Annals - Manufacturing Technology</i> , 2011 , 60, 271-274	4.9	53
38	Using kernel data in machine tools for the indirect evaluation of surface roughness in vertical milling operations. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011 , 27, 1011-1018	9.2	6
37	Surface roughness prediction through internal kernel information and external accelerometers using artificial neural networks. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 2877-2886	1.6	10
36	Comparison of forming manufacturing processes and selective laser melting technology based on the mechanical properties of products. <i>Virtual and Physical Prototyping</i> , 2011 , 6, 167-178	10.1	26
35	Machining processes time calculating tool integrated in computer aided process planning (CAPP) for small and medium enterprises (SMEs). <i>International Journal of Computer Integrated Manufacturing</i> , 2011 , 24, 40-52	4.3	3
34	Modelling Power Consumption in Ball-End Milling Operations. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 746-756	4.1	38
33	Swarm Intelligent Selection and Optimization of Machining System Parameters for Microchannel Fabrication in Medical Devices. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 403-414	4.1	36
32	Chatter in machining processes: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2011 , 51, 363-376	9.4	595
31	Concurrent Conceptual Evaluation of Tolerances Synthesis in Mechanical Design. <i>Concurrent Engineering Research and Applications</i> , 2011 , 19, 175-186	1.7	4
30	Productivity improvement through chatter-free milling in workshops. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2011 , 225, 1163-1174	2.4	12
29	Experimental Introduction to Forced and Self-Excited Vibrations in Milling Processes and Identification of Stability Lobes Diagrams. <i>Materials Science Forum</i> , 2011 , 692, 24-32	0.4	
28	Influence of process parameters in the first melting layer of a building platform in a SLM machine 2011 , 499-502		4
27	Interface tool for human communication to integrate psychophysical inputs with rapid manufacturing technologies. <i>International Journal of Computer Integrated Manufacturing</i> , 2010 , 23, 777-790	4.3	
26	Influence of cutting parameters on cycle time, surface roughness, dimensional error and cutting forces in milling operations on aluminium 6082 sculptured surface geometry. <i>International Journal of Machining and Machinability of Materials</i> , 2010 , 8, 339	0.7	4

25	Surface Roughness Generation and Material Removal Rate in Ball End Milling Operations. <i>Materials and Manufacturing Processes</i> , 2010 , 25, 386-398	4.1	53
24	Modelling manufacturing processes: a comparison between multiple regression analysis and the neural networks approach. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2010 , 3, 405	0.8	3
23	An experimental analysis of process parameters to manufacture metallic micro-channels by micro-milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 51, 945-955	3.2	70
22	Determining Curvature of Air Bent Parts by Digital Image Processing. <i>International Journal of Material Forming</i> , 2010 , 3, 105-108	2	1
21	Methodology for capturing and formalizing DFM Knowledge. <i>Robotics and Computer-Integrated Manufacturing</i> , 2010 , 26, 420-429	9.2	22
20	Influence of Process Parameters and Electrode Geometry on Feature Micro-Accuracy in Electro Discharge Machining of Tool Steel. <i>Materials and Manufacturing Processes</i> , 2009 , 24, 1282-1289	4.1	35
19	Neural-network-based model for build-time estimation in selective laser sintering. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2009 , 223, 995-1003	2.4	43
18	An approach to integrate manufacturing process information in part design phases. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 2085-2091	5.3	22
17	Sound mapping for identification of stability lobe diagrams in milling processes. <i>International Journal of Machine Tools and Manufacture</i> , 2009 , 49, 203-211	9.4	39
16	Neural Network Modeling and Particle Swarm Optimization (PSO) of Process Parameters in Pulsed Laser Micromachining of Hardened AISI H13 Steel. <i>Materials and Manufacturing Processes</i> , 2009 , 24, 358-368	4.1	143
15	Input Parameters Determination for Predicting Ram Speed and Billet Temperature for the First Billet. <i>Key Engineering Materials</i> , 2008 , 367, 161-168	0.4	3
14	Decision support tool for blank selection in workshop machining processes. <i>Engineering Computations</i> , 2008 , 25, 140-154	1.4	2
13	A model for integrating process planning and production planning and control in machining processes. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008 , 24, 532-544	9.2	28
12	A new experimental methodology for identification of stability lobes diagram in milling operations. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 1637-1645	9.4	39
11	Estimating the cost of vertical high-speed machining centres, a comparison between multiple regression analysis and the neural networks approach. <i>International Journal of Production Economics</i> , 2008 , 115, 171-178	9.3	34
10	Springback determination of sheet metals in an air bending process based on an experimental work. <i>Journal of Materials Processing Technology</i> , 2007 , 191, 174-177	5.3	60
9	Experimental analysis of dimensional error vs. cycle time in high-speed milling of aluminium alloy. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 236-246	9.4	16
8	Springback and Geometry Prediction [Neural Networks Applied to the Air Bending Process. <i>Lecture Notes in Computer Science</i> , 2006 , 470-475	0.9	3

7	Activity model and computer aided system for defining sheet metal process planning. <i>Journal of Materials Processing Technology</i> , 2006 , 173, 213-222	5.3	20
6	A system for optimising cutting parameters when planning milling operations in high-speed machining. <i>Journal of Materials Processing Technology</i> , 2005 , 168, 25-35	5.3	18
5	A decision support system for optimising the selection of parameters when planning milling operations. <i>International Journal of Machine Tools and Manufacture</i> , 2005 , 45, 201-210	9.4	25
4	Computer application to aid the unidirectional functional dimensioning and tolerancing synthesis. <i>Engineering Computations</i> , 2004 , 21, 455-469	1.4	3
3	Optimising process planning using groups of precedence between operations based on machined volumes. <i>Engineering Computations</i> , 2003 , 20, 67-81	1.4	11
2	Implementation of unidirectional functional dimensioning and tolerancing algorithm in CAD systems. <i>Journal of Manufacturing Technology Management</i> , 2003 , 14, 468-476		2
1	A system based on machined volumes to reduce the number of route sheets in process planning. <i>Computers in Industry</i> , 2003 , 51, 41-50	11.6	13