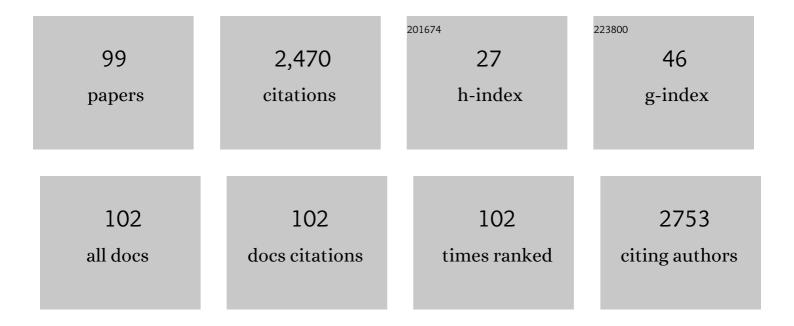
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Influence of process parameters on part quality and mechanical properties for DMLS and SLM with iron-based materials. International Journal of Advanced Manufacturing Technology, 2012, 60, 601-610.	3.0	234
2	High-speed machining of cast iron and alloy steels for die and mold manufacturing. Journal of Materials Processing Technology, 2000, 98, 104-115.	6.3	165
3	Characterization of the Mechanical Properties of FFF Structures and Materials: A Review on the Experimental, Computational and Theoretical Approaches. Materials, 2019, 12, 895.	2.9	161
4	Next-generation manufacturing systems: key research issues in developing and integrating reconfigurable and intelligent machines. International Journal of Computer Integrated Manufacturing, 2005, 18, 525-536.	4.6	125
5	Influence of tool path strategy on the cycle time of high-speed milling. CAD Computer Aided Design, 2003, 35, 395-401.	2.7	97
6	Analyzing effects of cooling and lubrication conditions in micromilling of Ti6Al4V. Journal of Cleaner Production, 2015, 87, 906-913.	9.3	88
7	An experimental analysis of process parameters to manufacture metallic micro-channels by micro-milling. International Journal of Advanced Manufacturing Technology, 2010, 51, 945-955.	3.0	84
8	Characterization and stability analysis of a multivariable milling tool by the enhanced multistage homotopy perturbation method. International Journal of Machine Tools and Manufacture, 2012, 57, 27-33.	13.4	76
9	Rapid tooling using 3D printing system for manufacturing of customized tracheal stent. Rapid Prototyping Journal, 2014, 20, 2-12.	3.2	62
10	Environmental analysis of selective laser melting in the manufacturing of aeronautical turbine blades. Journal of Cleaner Production, 2020, 246, 119068.	9.3	56
11	Sound mapping for identification of stability lobe diagrams in milling processes. International Journal of Machine Tools and Manufacture, 2009, 49, 203-211.	13.4	51
12	Circular Economy in the Electronic Products Sector: Material Flow Analysis and Economic Impact of Cellphone E-Waste in Mexico. Sustainability, 2019, 11, 1361.	3.2	50
13	Influence of PEEK Coating on Hip Implant Stress Shielding: A Finite Element Analysis. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	1.3	47
14	Study of face milling of hardened AISI D3 steel with a special design of carbide tools. International Journal of Advanced Manufacturing Technology, 2009, 40, 12-25.	3.0	44
15	Swarm Intelligent Selection and Optimization of Machining System Parameters for Microchannel Fabrication in Medical Devices. Materials and Manufacturing Processes, 2011, 26, 403-414.	4.7	43
16	Optimization of photocrosslinkable resin components and 3D printing process parameters. Acta Biomaterialia, 2019, 97, 154-161.	8.3	43
17	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. Biofabrication, 2020, 12, 035023.	7.1	43
18	Xurography as a Rapid Fabrication Alternative for Point-of-Care Devices: Assessment of Passive Micromixers. Sensors, 2016, 16, 705.	3.8	40

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19	Cycle time prediction in high-speed milling operations for sculptured surface finishing. Journal of Materials Processing Technology, 2006, 174, 355-362.	6.3	39
20	Determination of the stability lobes in milling operations based on homotopy and simulated annealing techniques. Mechatronics, 2014, 24, 177-185.	3.3	39
21	Evaluation of micromechanical manufacturing processes for microfluidic devices. International Journal of Advanced Manufacturing Technology, 2010, 48, 963-972.	3.0	38
22	Effect of process parameters in nanosecond pulsed laser micromachining of PMMA-based microchannels at near-infrared and ultraviolet wavelengths. International Journal of Advanced Manufacturing Technology, 2013, 67, 1651-1664.	3.0	38
23	Parametric Modeling of Biomimetic Cortical Bone Microstructure for Additive Manufacturing. Materials, 2019, 12, 913.	2.9	32
24	Design of a decision support system for machine tool selection based on machine characteristics and performance tests. Journal of Intelligent Manufacturing, 2011, 22, 263-277.	7.3	31
25	Dross formation and process parameters analysis of fibre laser cutting of stainless steel thin sheets. International Journal of Advanced Manufacturing Technology, 2014, 71, 1611-1621.	3.0	31
26	Continuous flow micro-bioreactors for the production of biopharmaceuticals: the effect of geometry, surface texture, and flow rate. Lab on A Chip, 2014, 14, 1320-1329.	6.0	30
27	Photopolymerizable Resins for 3D-Printing Solid-Cured Tissue Engineered Implants. Current Drug Targets, 2019, 20, 823-838.	2.1	30
28	Electrospun Polycaprolactone Fibrous Membranes Containing Ag, TiO2 and Na2Ti6O13 Particles for Potential Use in Bone Regeneration. Membranes, 2019, 9, 12.	3.0	28
29	Effect of Fluence and Pulse Overlapping on Fabrication of Microchannels in PMMA/PDMS Via UV Laser Micromachining: Modeling and Experimentation. Materials and Manufacturing Processes, 2015, 30, 890-901.	4.7	25
30	Experimental analysis of dimensional error vs. cycle time in high-speed milling of aluminium alloy. International Journal of Machine Tools and Manufacture, 2007, 47, 236-246.	13.4	23
31	Adaptive control optimization in micro-milling of hardened steels—evaluation of optimization approaches. International Journal of Advanced Manufacturing Technology, 2016, 84, 2219-2238.	3.0	22
32	Hydrostatic High-Pressure Post-Processing of Specimens Fabricated by DLP, SLA, and FDM: An Alternative for the Sterilization of Polymer-Based Biomedical Devices. Materials, 2018, 11, 2540.	2.9	22
33	Hybrid Fabrication of a 3D Printed Geometry Embedded with PCL Nanofibers for Tissue Engineering Applications. Procedia Engineering, 2015, 110, 128-134.	1.2	20
34	Analysis and simulation of a wind-electric battery charging system. International Journal of Energy Research, 2006, 30, 633-646.	4.5	19
35	Monitoring deep twist drilling for a rapid manufacturing of light high-strength parts. Mechanical Systems and Signal Processing, 2011, 25, 2745-2752.	8.0	19
36	A Mobile Solution to Enhance Training and Execution of Troubleshooting Techniques of the Engine Air Bleed System on Boeing 737. Procedia Computer Science, 2013, 25, 161-170.	2.0	19

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37	Influence of Controlled Cooling in Bimodal Scaffold Fabrication Using Polymers with Different Melting Temperatures. Materials, 2017, 10, 640.	2.9	18
38	Process planning of L-PBF of AISI 316L for improving surface quality and relating part integrity with microstructural characteristics. Surface and Coatings Technology, 2020, 396, 125956.	4.8	18
39	Process planning guidelines in selective laser melting for the manufacturing of stainless steel parts. Procedia Manufacturing, 2018, 26, 973-982.	1.9	17
40	Photocrosslinking-based 3D printing of unsaturated polyesters from isosorbide: A new material for resorbable medical devices. Bioprinting, 2020, 18, e00062.	5.8	17
41	A biopharmaceutical plant on a chip: continuous micro-devices for the production of monoclonal antibodies. Lab on A Chip, 2013, 13, 1243.	6.0	16
42	Circular Economy in Mexico's Electronic and Cell Phone Industry: Recent Evidence of Consumer Behavior. Applied Sciences (Switzerland), 2020, 10, 7744.	2.5	15
43	Industry and university cooperation to enhance manufacturing education. Journal of Manufacturing Systems, 2005, 24, 277-287.	13.9	14
44	A non-monotonous damage function to characterize stress-softening effects with permanent set during inflation and deflation of rubber balloons. International Journal of Engineering Science, 2010, 48, 1937-1943.	5.0	14
45	An experimental study of process variables in turning operations of Ti–6Al–4V and Cr–Co spherical prostheses. International Journal of Advanced Manufacturing Technology, 2012, 63, 887-902.	3.0	14
46	Study of the fabrication of AISI 316L microneedle arrays. Procedia Manufacturing, 2018, 26, 117-124.	1.9	14
47	Economical and technological study of surface grinding versus face milling in hardened AISI D3 steel machining operations. International Journal of Production Economics, 2012, 138, 273-283.	8.9	13
48	Multiobjective Optimization of Laser Milling Parameters of Microcavities for the Manufacturing of DES. Materials and Manufacturing Processes, 2013, 28, 1370-1378.	4.7	13
49	Rapid Fabrication of Disposable Micromixing Arrays Using Xurography and Laser Ablation. Micromachines, 2017, 8, 144.	2.9	13
50	On the solution of strong nonlinear oscillators by applying a rational elliptic balance method. Computers and Mathematics With Applications, 2010, 60, 1409-1420.	2.7	12
51	Assembly Operations Aided by Augmented Reality: An Endeavour toward a Comparative Analysis. Procedia Computer Science, 2015, 75, 281-290.	2.0	12
52	Electrospinning Complexly-shaped, Resorbable, Bifurcated Vascular Grafts. Procedia CIRP, 2017, 65, 207-212.	1.9	12
53	Evaluation and modeling of productivity and dynamic capability in high-speed machining centers. International Journal of Advanced Manufacturing Technology, 2007, 33, 403-411.	3.0	11
54	Trends in Nanomaterials and Processing for Drug Delivery of Polyphenols in the Treatment of Cancer and Other Therapies. Current Drug Targets, 2016, 18, 135-146.	2.1	11

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55	Virtual processing – application of rapid prototyping for visualization of metal forming processes. Journal of Materials Processing Technology, 2000, 98, 116-124.	6.3	10
56	Characterization of Soft Tooling Photopolymers and Processes for Micromixing Devices with Variable Cross-Section. Micromachines, 2020, 11, 970.	2.9	9
57	Application of the elliptic balance method to a nonlinear singular oscillator. Applied Mathematics and Computation, 2012, 218, 11112-11117.	2.2	8
58	Fiber Laser Microcutting of AISI 316L Stainless Steel Tubes- influence of Pulse Energy and Spot Overlap on Back Wall Dross. Procedia CIRP, 2016, 49, 222-226.	1.9	8
59	Feasibility of manufacturing low aspect ratio parts of PLA by ultrasonic moulding technology. Procedia Manufacturing, 2017, 13, 251-258.	1.9	8
60	Influence of process parameters for sheet lamination based on laser micro-spot welding of austenitic stainless steel sheets for bone tissue applications. International Journal of Advanced Manufacturing Technology, 2021, 115, 247-262.	3.0	8
61	Evaluation of Ball End Micromilling for Ti6Al4V ELI Microneedles Using a Nanoadditive Under MQL Condition. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 1231-1246.	4.9	8
62	Stress-Softening and Residual Strain Effects in Suture Materials. Advances in Materials Science and Engineering, 2013, 2013, 1-9.	1.8	7
63	Design Concepts of Polycarbonate-Based Intervertebral Lumbar Cages: Finite Element Analysis and Compression Testing. Applied Bionics and Biomechanics, 2016, 2016, 1-9.	1.1	7
64	Experimental Study of Back Wall Dross and Surface Roughness in Fiber Laser Microcutting of 316L Miniature Tubes. Micromachines, 2018, 9, 4.	2.9	7
65	Laser Surface Texturing and Electropolishing of CoCr and Ti6Al4V-ELI Alloys for Biomedical Applications. Materials, 2020, 13, 5203.	2.9	7
66	LAPKaans: Tool-Motion Tracking and Gripping Force-Sensing Modular Smart Laparoscopic Training System. Sensors, 2020, 20, 6937.	3.8	7
67	A dimensional assessment of small features and lattice structures manufactured by laser powder bed fusion. Progress in Additive Manufacturing, 2022, 7, 751-763.	4.8	7
68	Stability Predictions for End Milling Operations With a Nonlinear Cutting Force Model. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	2.2	6
69	Morphological and Mechanical Evaluation of Hybrid Scaffolds for Bone Regeneration. Advanced Materials Research, 2013, 749, 429-432.	0.3	6
70	Supercritical CO2 Foaming of Thermoplastic Materials Derived from Maize: Proof-of-Concept Use in Mammalian Cell Culture Applications. PLoS ONE, 2015, 10, e0122489.	2.5	6
71	Evaluation of machine-tool motion accuracy using a CNC machining center in micro-milling processes. International Journal of Advanced Manufacturing Technology, 2015, 76, 219-228.	3.0	6
72	Process planning considerations for micromilling of mould cavities used in ultrasonic moulding technology. Precision Engineering, 2015, 39, 252-260.	3.4	6

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73	E-Skin Development and Prototyping via Soft Tooling and Composites with Silicone Rubber and Carbon Nanotubes. Materials, 2022, 15, 256.	2.9	6
74	Polymeric Materials Reinforced with Multiwall Carbon Nanotubes: A Constitutive Material Model. Materials, 2013, 6, 2873-2891.	2.9	5
75	Micro-injection Moulding of Polymer Locking Ligation Systems. Procedia CIRP, 2016, 49, 1-7.	1.9	5
76	Surface Finish and Back-Wall Dross Behavior during the Fiber Laser Cutting of AZ31 Magnesium Alloy. Micromachines, 2018, 9, 485.	2.9	4
77	Reusable unit process life cycle inventory (UPLCI) for manufacturing: laser powder bed fusion (L-PBF). Production Engineering, 2021, 15, 701-716.	2.3	4
78	Soft Tissue Hybrid Model for Real-Time Simulations. Polymers, 2022, 14, 1407.	4.5	4
79	Electrospun Tubular Scaffold for Stenting Application: A Proof of Concept. Procedia Manufacturing, 2019, 41, 312-319.	1.9	3
80	Influence of Controlled Cooling on Crystallinity of Poly(L-Lactic Acid) Scaffolds after Hydrolytic Degradation. Materials, 2020, 13, 2943.	2.9	3
81	Surface Roughness and Cutting Tool-Wear Diagnosis Based on Bayesian Networks. , 2007, , 408-413.		2
82	Evaluation of metrology technologies for free form surfaces. International Journal of Metrology and Quality Engineering, 2012, 3, 55-62.	1.0	2
83	Design, simulation and analysis of a positive displacement pump controller for biomedical applications requiring pulsatile flow. , 2017, , .		2
84	Effect of Surgical Expertise on Biomechanical Properties of Sutures After Abdominal Wall Closure. Journal of Surgical Research, 2020, 245, 403-409.	1.6	2
85	An assessment of magnesium AZ31 coronary stents manufacture. Materials Research Express, 2021, 8, 075403.	1.6	2
86	Experimental Analysis of Process Parameters to Manufacture Micro-Cavities by Micro-Milling. Advanced Materials Research, 0, 498, 91-96.	0.3	1
87	A Preliminary Material Model to Predict Stress Softening and Permanent Set Effects of Human Vaginal Tissue. Procedia Engineering, 2013, 59, 150-157.	1.2	1
88	Influence of Electrical Field Collector Positioning and Motion Scheme on Electrospun Bifurcated Vascular Graft Membranes. Materials, 2019, 12, 2123.	2.9	1
89	Laser micro-welding of AZ92A magnesium wires using a fiber-laser: a preliminary study. Procedia CIRP, 2020, 89, 33-38.	1.9	1
90	Chatter Prediction in Orthogonal Cutting Based on Lambert Function. , 2005, , .		1

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91	Manufacturing and Test of Split and Recombine Micromixers with a Variable Cross-Section. ECS Meeting Abstracts, 2018, , .	0.0	1
92	Evaluation of Manufacturing Processes for Microfluidic Devices. , 2009, , .		0
93	Neural network modelling of process parameters influence on tool wear for ball-nose end mills. International Journal of Mechatronics and Manufacturing Systems, 2010, 3, 393.	0.1	0
94	A Nonmonotonous Damage Model to Characterize Mullins and Residual Strain Effects of Rubber Strings Subjected to Transverse Vibrations. Advances in Materials Science and Engineering, 2013, 2013, 1-9.	1.8	0
95	Adaptive fourier series speed controller for permanent magnet synchronous motor and brushless dc motor. Journal of Physics: Conference Series, 2018, 1074, 012012.	0.4	0
96	Biofabrication 2019: Special Issue of Selected Papers from the Annual Meeting of the International Society for Biofabrication. Advanced Healthcare Materials, 2020, 9, e2002049.	7.6	0
97	CIIIASaT Structure Additive Manufacturing Design. Southern Space Studies, 2020, , 37-54.	0.1	0
98	Machine Tools for the Automotive Industry. , 2009, , 421-435.		0
99	Characterization of Porous Scaffolds Fabricated by Joining Stacking Based Laser Micro-Spot Welding (JS-LMSW) for Tissue Engineering Applications. Materials, 2022, 15, 99.	2.9	Ο