RamÃ³n Jerez-Mesa

List of Publications by Year
in descending order

33 papers	882 citations	471509 17 h-index	477307 29 g-index
36 all docs	36 docs citations	36 times ranked	722 citing authors

#	Article	IF	Citations
1	Fatigue performance of fused filament fabrication PLA specimens. Materials and Design, 2018, 140, 278-285.	7.0	177
2	Fatigue lifespan study of PLA parts obtained by additive manufacturing. Procedia Manufacturing, 2017, 13, 872-879.	1.9	56
3	Fatigue Performance of ABS Specimens Obtained by Fused Filament Fabrication. Materials, 2018, 11, 2521.	2.9	53
4	Fatigue behavior of PLA-wood composite manufactured by fused filament fabrication. Journal of Materials Research and Technology, 2020, 9, 8507-8516.	5.8	52
5	Mechanical Properties of 3D-Printing Polylactic Acid Parts subjected to Bending Stress and Fatigue Testing. Materials, 2019, 12, 3859.	2.9	49
6	Study of the manufacturing process effects of fused filament fabrication and injection molding on tensile properties of composite PLA-wood parts. International Journal of Advanced Manufacturing Technology, 2020, 108, 1725-1735.	3.0	39
7	Finite element analysis of the thermal behavior of a RepRap 3D printer liquefier. Mechatronics, 2016, 36, 119-126.	3.3	38
8	Hardening effect and fatigue behavior enhancement through ball burnishing on AISI 1038. Journal of Materials Research and Technology, 2019, 8, 5639-5646.	5.8	37
9	Development, characterization and test of an ultrasonic vibration-assisted ball burnishing tool. Journal of Materials Processing Technology, 2018, 257, 203-212.	6.3	36
10	Topological surface integrity modification of AISI 1038 alloy after vibration-assisted ball burnishing. Surface and Coatings Technology, 2018, 349, 364-377.	4.8	34
11	Ball-burnishing effect on deep residual stress on AISI 1038 and AA2017-T4. Materials and Manufacturing Processes, 2017, 32, 1279-1289.	4.7	31
12	Experimental analysis of manufacturing parametersâ€™ effect on the flexural properties of wood-PLA composite parts built through FFF. International Journal of Advanced Manufacturing Technology, 2020, 106, 3985-3998.	3.0	27
13	Influence of building orientation on the flexural strength of laminated object manufacturing specimens. Journal of Mechanical Science and Technology, 2017, 31, 133-139.	1.5	26
14	Comprehensive analysis of surface integrity modification of ball-end milled Ti-6Al-4V surfaces through vibration-assisted ball burnishing. Journal of Materials Processing Technology, 2019, 267, 230-240.	6.3	25
15	A comparative study of the thermal behavior of three different 3D printer liquefiers. Mechatronics, 2018, 56, 297-305.	3.3	22
16	Finite Element Analysis of Ball Burnishing on Ball-End Milled Surfaces Considering Their Original Topology and Residual Stress. Metals, 2020, 10, 638.	2.3	20
17	Experimental study of lateral pass width in conventional and vibrations-assisted ball burnishing. International Journal of Advanced Manufacturing Technology, 2016, 87, 363-371.	3.0	19
18	Comparative study of the flexural properties of ABS, PLA and a PLAâ€“wood composite manufactured through fused filament fabrication. Rapid Prototyping Journal, 2021, 27, 81-92.	3.2	19

#	Article	IF	Citations
19	Superficial Effects of Ball Burnishing on TRIP Steel AISI 301LN Sheets. Metals, 2021, 11, 82.	2.3	16
20	Monitoring of Processing Conditions of an Ultrasonic Vibration-Assisted Ball-Burnishing Process. Sensors, 2020, 20, 2562.	3.8	12
21	Deformation kinetics of a TRIP steel determined by in situ high-energy synchrotron X-ray diffraction. Materialia, 2021, 20, 101251.	2.7	12
22	Enhancing Surface Topology of UdimetÂ®720 Superalloy through Ultrasonic Vibration-Assisted Ball Burnishing. Metals, 2020, 10, 915.	2.3	11
23	Mechanical Strengthening in S235JR Steel Sheets through Vibration-Assisted Ball Burnishing. Metals, 2020, 10, 1010.	2.3	8
24	Friction stir welding of AA2024-T3: development of numerical simulation considering thermal history and heat generation. International Journal of Advanced Manufacturing Technology, 2021, 117, 2481-2500.	3.0	8
25	Study of the Influence of the Manufacturing Parameters on Tensile Properties of Thermoplastic Elastomers. Polymers, 2022, 14, 576.	4.5	8
26	Surface roughness assessment after different strategy patterns of ultrasonic ball burnishing. Procedia Manufacturing, 2017, 13, 710-717.	1.9	7
27	Experimental Characterization of the Influence of Lateral Pass Width on Results of a Ball Burnishing Operation. Procedia Engineering, 2015, 132, 686-692.	1.2	4
28	Ultrasonic Vibration-Assisted Ball Burnishing Tool for a Lathe Characterized by Acoustic Emission and Vibratory Measurements. Materials, 2021, 14, 5746.	2.9	4
29	Wear resistance enhancement of AISI 1045 steel by vibration assisted ball burnishing process. Procedia CIRP, 2022, 108, 287-292.	1.9	4
30	Vibration-Assisted Ball Burnishing. Encyclopedia, 2021, 1, 460-471.	4.5	3
31	Characterization of Cutting Parameters in the Minimum Quantity Lubricant (MQL) Machining Process of a Gearbox. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2015, 5, 49-60.	0.4	2
32	Selection of Printing Parameters of a Thermoplastic Elastomer Processed through Material Extrusion. , 2022, , 152-164.		0
33	Viscoelastic Characterization of a Thermoplastic Elastomer Processed through Material Extrusion. Polymers, 2022, 14, 2914.	4.5	0