

# Joamin Gonzalez-Gutierrez

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,232  
citations

331259

21  
h-index

264894

42  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive Manufacturing of Metallic and Ceramic Components by the Material Extrusion of Highly-Filled Polymers: A Review and Future Perspectives. <i>Materials</i> , 2018, 11, 840.	1.3	395
2	Effect of the printing bed temperature on the adhesion of parts produced by fused filament fabrication. <i>Plastics, Rubber and Composites</i> , 2018, 47, 17-24.	0.9	184
3	Material extrusion-based additive manufacturing of polypropylene: A review on how to improve dimensional inaccuracy and warpage. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48545.	1.3	156
4	Structure-property relationships in polyamide 12/halloysite nanotube nanocomposites. <i>Polymer Degradation and Stability</i> , 2011, 96, 226-235.	2.7	129
5	Processability and mechanical properties of extensively recycled high density polyethylene. <i>Polymer Degradation and Stability</i> , 2015, 114, 133-145.	2.7	119
6	Fabrication and properties of extrusion-based 3D-printed hardmetal and cermet components. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 82, 141-149.	1.7	116
7	The effect of extensive mechanical recycling on the properties of low density polyethylene. <i>Polymer Degradation and Stability</i> , 2012, 97, 2262-2272.	2.7	114
8	Development of highly-transparent protein/starch-based bioplastics. <i>Bioresource Technology</i> , 2010, 101, 2007-2013.	4.8	107
9	Optimization of the 3D Printing Parameters for Tensile Properties of Specimens Produced by Fused Filament Fabrication of 17-4PH Stainless Steel. <i>Materials</i> , 2020, 13, 774.	1.3	92
10	Tensile properties of sintered 17-4PH stainless steel fabricated by material extrusion additive manufacturing. <i>Materials Letters</i> , 2019, 248, 165-168.	1.3	81
11	Fused filament fabrication, debinding and sintering as a low cost additive manufacturing method of 316L stainless steel. <i>Additive Manufacturing</i> , 2019, 30, 100861.	1.7	77
12	Optimisation of the Adhesion of Polypropylene-Based Materials during Extrusion-Based Additive Manufacturing. <i>Polymers</i> , 2018, 10, 490.	2.0	70
13	Effect of processing on the viscoelastic, tensile and optical properties of albumen/starch-based bioplastics. <i>Carbohydrate Polymers</i> , 2011, 84, 308-315.	5.1	56
14	Additive manufacturing of zirconia parts by fused filament fabrication and solvent debinding: Selection of binder formulation. <i>Additive Manufacturing</i> , 2019, 26, 117-128.	1.7	49
15	Mechanical Recyclability of Polypropylene Composites Produced by Material Extrusion-Based Additive Manufacturing. <i>Polymers</i> , 2019, 11, 1318.	2.0	48
16	Influence of the Infill Orientation on the Properties of Zirconia Parts Produced by Fused Filament Fabrication. <i>Materials</i> , 2020, 13, 3158.	1.3	43
17	An Overview of Material Extrusion Troubleshooting. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4776.	1.3	42
18	Rheological Behaviour of Highly Filled Materials for Injection Moulding and Additive Manufacturing: Effect of Particle Material and Loading. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7993.	1.3	38

#	ARTICLE	IF	CITATIONS
19	Models to Predict the Viscosity of Metal Injection Molding Feedstock Materials as Function of Their Formulation. <i>Metals</i> , 2016, 6, 129.	1.0	31
20	Effect of particle size on the properties of highly-filled polymers for fused filament fabrication. AIP Conference Proceedings, 2017, . .	0.3	30
21	Debinding behaviour of feedstock for material extrusion additive manufacturing of zirconia. <i>Powder Metallurgy</i> , 2019, 62, 196-204.	0.9	28
22	Atomistic Modelling of Confined Polypropylene Chains between Ferric Oxide Substrates at Melt Temperature. <i>Polymers</i> , 2016, 8, 361.	2.0	19
23	Bending Properties of Lightweight Copper Specimens with Different Infill Patterns Produced by Material Extrusion Additive Manufacturing, Solvent Debinding and Sintering. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7262.	1.3	18
24	Metal fused filament fabrication of the nickel-base superalloy IN 718. <i>Journal of Materials Science</i> , 2022, 57, 9541-9555.	1.7	17
25	Processing Conditions of a Medical Grade Poly(Methyl Methacrylate) with the Arburg Plastic Freeforming Additive Manufacturing Process. <i>Polymers</i> , 2020, 12, 2677.	2.0	16
26	Apparatus for measuring friction inside granular materials “ Granular friction analyzer. <i>Powder Technology</i> , 2016, 288, 255-265.	2.1	15
27	Fused Filament Fabrication-Based Additive Manufacturing of Commercially Pure Titanium. <i>Advanced Engineering Materials</i> , 2021, 23, 2100380.	1.6	13
28	Effect of metal particle size and powder volume fraction on the filling performance of powder injection moulded parts with a microtextured surface. <i>Precision Engineering</i> , 2021, 72, 604-612.	1.8	12
29	Rheology of PIM feedstocks. <i>Metal Powder Report</i> , 2017, 72, 39-44.	0.3	11
30	Rheology and Mechanical Properties of Fats. , 2018, , 119-168.		11
31	Modification of Interfacial Interactions in Ceramic-Polymer Nanocomposites by Grafting: Morphology and Properties for Powder Injection Molding and Additive Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1471.	1.3	10
32	Powder content in powder extrusion moulding of tool steel: Dimensional stability, shrinkage and hardness. <i>Materials Letters</i> , 2021, 283, 128909.	1.3	10
33	Research and Implementation of Axial 3D Printing Method for PLA Pipes. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4680.	1.3	9
34	Material extrusion additively manufactured alumina monolithic structures to improve the efficiency of plasma-catalytic oxidation of toluene. <i>Additive Manufacturing</i> , 2021, 37, 101700.	1.7	9
35	Resins for Frontal Photopolymerization: Combining Depth-Cure and Tunable Mechanical Properties. <i>Materials</i> , 2021, 14, 743.	1.3	9
36	Strain Dependence of the Uniaxial Compression Response of Vegetable Shortening. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1319-1326.	0.8	8

#	ARTICLE	IF	CITATIONS
37	Optimization of material properties for highly-filled thermoplastic polymers used in fused filament fabrication of ceramics. AIP Conference Proceedings, 2019, , .	0.3	6
38	Selection of appropriate polyoxymethylene based binder for feedstock material used in powder injection moulding. Journal of Physics: Conference Series, 2015, 602, 012001.	0.3	5
39	Functionally graded additive manufacturing. , 2021, , 35-54.		5
40	Hybrid Printing Method of Polymer and Continuous Fiber-Reinforced Thermoplastic Composites (CFRTPCs) for Pipes through Double-Nozzle Five-Axis Printer. Polymers, 2022, 14, 819.	2.0	5
41	Time-Dependent Properties of Multimodal Polyoxymethylene Based Binder for Powder Injection Molding. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 419-430.	0.5	4
42	Rheology of Highly Filled Polymers. , 2018, , .		4
43	Viscosity and creep compliance of polyoxymethylene copolymers of various average molecular weights. Polimery, 2015, 61, 620-627.	0.4	4
44	Indirect Additive Manufacturing Techniques for Metal Parts: Binder-Based Additive Manufacturing Techniques. , 2022, , 319-329.		2
45	Mechanical Properties of Extensively Recycled High Density Polyethylene. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 203-208.	0.3	2
46	Shear creep compliance of polyoxymethylene copolymers with different molecular weights. , 2014, , .		0
47	New Methodology for Steady-State Friction Measurements of Granular Materials Under Pressure. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 105-113.	0.3	0
48	OS16-2-1 Time-Dependent Properties of Bimodal Polyoxymethylene-based binder for Powder Injection Molding. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS16-2-1.	0.0	0
49	The effects of washing and formaldehyde sterilization on the mechanical performance of poly(methyl Tj ETQq1 1 0.784314 rgBT /Overl jetting. Advanced Engineering Materials, 0, , .	1.6	0