

# Marco Leite

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,099  
citations

567281

15  
h-index

414414

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Fibre Composites and Their Applications: A Review. Journal of Composites Science, 2018, 2, 66.	3.0	424
2	Experimental and numerical modelling of mechanical properties of 3D printed honeycomb structures. Measurement: Journal of the International Measurement Confederation, 2018, 116, 495-506.	5.0	79
3	Agile manufacturing practices for new product development: industrial case studies. Journal of Manufacturing Technology Management, 2016, 27, 560-576.	6.4	70
4	Influence of fused deposition modeling parameters on the mechanical properties of ABS parts. Polymers for Advanced Technologies, 2020, 31, 501-507.	3.2	64
5	Selecting composite materials considering cost and environmental impact in the early phases of aircraft structure design. Journal of Cleaner Production, 2018, 186, 113-122.	9.3	45
6	Mechanical properties and water absorption of surface modified ABS 3D printed by fused deposition modelling. Rapid Prototyping Journal, 2018, 24, 195-203.	3.2	44
7	Integrating life cycle assessment (LCA) and life cycle costing (LCC) in the early phases of aircraft structural design: an elevator case study. International Journal of Life Cycle Assessment, 2019, 24, 2091-2110.	4.7	37
8	A CAD-based approach for measuring volumetric error in layered manufacturing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2398-2406.	2.1	28
9	Failure of polymer coated nylon parts produced by additive manufacturing. Engineering Failure Analysis, 2019, 101, 485-492.	4.0	27
10	Design and development of a customised knee positioning orthosis using low cost 3D printers. Virtual and Physical Prototyping, 2017, 12, 322-332.	10.4	25
11	Design for personalized medicine in orthotics and prosthetics. Procedia CIRP, 2019, 84, 457-461.	1.9	24
12	Effect of protective coatings on the water absorption and mechanical properties of 3D printed PLA. Frattura Ed Integrita Strutturale, 2019, 13, 748-756.	0.9	23
13	Effects of non-proportional loading paths on the orientation of fatigue crack path. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 445-454.	3.4	20
14	A road map for implementing lean and agile techniques in SMEs product development teams. International Journal of Product Development, 2016, 21, 20.	0.2	20
15	Development of free binder zirconia-based pastes for the production of dental pieces by robocasting. Journal of Manufacturing Processes, 2020, 57, 1-9.	5.9	17
16	Additive manufacturing in the process industry: A process-based cost model to study life cycle cost and the viability of additive manufacturing spare parts.. Procedia CIRP, 2021, 98, 211-216.	1.9	17
17	Effect of the ironing process on ABS parts produced by FDM. Material Design and Processing Communications, 2021, 3, e151.	0.9	16
18	Social life cycle performance of additive manufacturing in the healthcare industry: the orthosis and prosthesis cases. International Journal of Computer Integrated Manufacturing, 2021, 34, 327-340.	4.6	16

#	ARTICLE	IF	CITATIONS
19	Materials selection for a set of multiple parts considering manufacturing costs and weight reduction with structural isoperformance using direct multisearch optimization. Structural and Multidisciplinary Optimization, 2015, 52, 635-644.	3.5	10
20	The effect of geometry on the flexural properties of cellular core structures. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442071880551.	1.1	10
21	How education background affects design outcome: teaching product development to mechanical engineers, industrial designers and managers. European Journal of Engineering Education, 2019, 44, 545-569.	2.3	8
22	Investigating the contribution of geometry on the failure of cellular core structures obtained by additive manufacturing. Frattura Ed Integrita Strutturale, 2019, 13, 478-486.	0.9	8
23	Evaluation of the effect of core lattice topology on the properties of sandwich panels produced by additive manufacturing. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1312-1324.	1.1	7
24	Bioinspired structures for core sandwich composites produced by fused deposition modelling. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 379-393.	1.1	6
25	Functionally graded cellular cores of sandwich panels fabricated by additive manufacturing. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1814-1828.	1.1	6
26	Design for AM: Contributions from surface finish, part geometry and part positioning. Procedia CIRP, 2019, 84, 491-495.	1.9	4
27	Influence of seams in the mechanical properties of PLA produced with multiple extrusion modules. Procedia Structural Integrity, 2020, 28, 358-363.	0.8	4
28	A trap of optimizing skills use when allocating human resources to a multiple projects environment. Team Performance Management, 2017, 23, 110-123.	1.3	3
29	Cross-Cultural Differences in Creative Ideation: A Comparison between Singaporean and Portuguese Students. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 89-98.	0.6	3
30	Designing Sustainable Business Models to Reduce Spare Part Inventory. Procedia CIRP, 2022, 105, 171-176.	1.9	3
31	Evaluation of the influence of design in the mechanical properties of honeycomb cores used in composite panels. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1325-1340.	1.1	2
32	Characterization of 3D printed ABS specimens under static and cyclic torsional loadings. Procedia Structural Integrity, 2021, 34, 205-210.	0.8	2
33	Evaluation of cellular structures with triply periodic minimal surfaces fabricated by additive manufacturing. , 2022, 1, 28-33.		2
34	Development of a cylindrical coordinate-based fused filament fabrication machine with multiple print heads. International Journal of Advanced Manufacturing Technology, 2020, 110, 3129-3143.	3.0	1
35	Validation of a low-cost selective powder deposition process through the characterization of tin bronze specimens. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 2681-2691.	1.1	1
36	State-of-the-Art Review and Roadmap. Advanced Structured Materials, 2020, , 1-56.	0.5	1

#	ARTICLE	IF	CITATIONS
37	How background affects design output: Teaching product development to mechanical engineers, industrial designers and managers. , 2016, , .		0
38	0-3D Design method: a new design management technique to support Design for Manufacturing. Procedia CIRP, 2019, 84, 155-158.	1.9	0
39	Elastic Behaviour of Z Reinforced Sandwich Beams. , 2005, , 271-280.		0
40	Optimization of Materials Selection in a Multi-Part Environment with Direct Multi-Search. , 0, , .		0