Jaime Mesa C

List of Publications by Year
in descending order

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26 papers	465 citations	759055 12 h-index	752573 20 g-index
26 all docs	26 docs citations	26 times ranked	456 citing authors

#	Article	IF	Citations
1	Developing a set of sustainability indicators for product families based on the circular economy model. Journal of Cleaner Production, 2018, 196, 1429-1442.	4.6	91
2	Cellulose Aerogels for Thermal Insulation in Buildings: Trends and Challenges. Coatings, 2018, 8, 345.	1.2	64
3	Developing an indicator for material selection based on durability and environmental footprint: A Circular Economy perspective. Resources, Conservation and Recycling, 2020, 160, 104887.	5.3	41
4	Life Cycle Assessment on Construction and Demolition Waste: A Systematic Literature Review. Sustainability, 2021, 13, 7676.	1.6	36
5	Circular product design: strategies, challenges and relationships with new product development. Management of Environmental Quality, 2022, 33, 300-329.	2.2	27
6	A novel approach to include sustainability concepts in classical DFMA methodology for sheet metal enclosure devices. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2018, 29, 227-244.	1.2	23
7	Circular Economy in the Construction Sector: A Case Study of Santiago de Cali (Colombia). Sustainability, 2022, 14, 1923.	1.6	22
8	Trends and Perspectives of Sustainable Product Design for Open Architecture Products: Facing the Circular Economy Model. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 377-391.	2.7	21
9	A methodology to define a reconfigurable system architecture for a compact heat exchanger assembly machine. International Journal of Advanced Manufacturing Technology, 2014, 70, 2199-2210.	1.5	18
10	Characterization of modular architecture principles towards reconfiguration: a first approach in its selection process. International Journal of Advanced Manufacturing Technology, 2015, 80, 221-232.	1.5	18
11	State-of-the-Art Green Roofs: Technical Performance and Certifications for Sustainable Construction. Coatings, 2020, 10, 69.	1.2	18
12	Development of a metric to assess the complexity of assembly/disassembly tasks in open architecture products. International Journal of Production Research, 2018, 56, 7201-7219.	4.9	16
13	Evaluation of Semi-Intensive Green Roofs with Drainage Layers Made Out of Recycled and Reused Materials. Coatings, 2020, 10, 525.	1.2	13
14	Mechanical Properties of Concrete Using Recycled Aggregates Obtained from Old Paving Stones. Sustainability, 2021, 13, 3044.	1.6	11
15	Modular architecture principles â€“ MAPs: a key factor in the development of sustainable open architecture products. International Journal of Sustainable Engineering, 2020, 13, 108-122.	1.9	9
16	Sustainability in Engineering Education: A Literature Review of Case Studies and Projects. , 0, , .		9
17	Sustainable manufacture of scalable product families based on modularity. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 80-95.	2.3	6
18	Development of a design methodology for reconfigurable injection molds. International Journal of Advanced Manufacturing Technology, 2017, 90, 153-166.	1.5	5

#	Article	IF	Citations
19	Functional characterisation of mechanical joints to facilitate its selection during the design of open architecture products. International Journal of Production Research, 2018, 56, 7390-7404.	4.9	5
20	Failure assessment of a weld-cracked mining excavator boom. Engineering Failure Analysis, 2018, 90, 47-63.	1.8	4
21	Towards the implementation of Circular Economy in Engineering Education: A systematic review. , 2021, , .		4
22	Relative Assessment of Indicators in Sustainability Enhancement (RAISE): a first approach in the manufacturing stage of products. International Journal of Sustainable Engineering, 2019, 12, 2-17.	1.9	2
23	A CASE STUDY APPROACH TO INTRODUCE CIRCULAR ECONOMY IN SUSTAINABLE DESIGN EDUCATION. , 2019, , .		2
24	Developing Assessment Tools for Sustainability Learning in Engineering Education. , 2017, , .		0
25	INTRODUCING SUSTAINABILITY IN ENGINEERING DESIGN EDUCATION: A CASE STUDY USING ANALYSIS OF IMPACTS DURING THE DESIGN FOR SUSTAINABILITY (AID-DS). , 0, , .		0
26	Sustainable Engineering and Internet of Things (IoT): trends and perspectives. , 0, , .		0