Marco Mandolini

List of Publications by Year
in descending order

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116	1,016	471509	526287
papers	citations	17 h-index	27 g-index

120	120	120	749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary Considerations on the Design of Multi-layered Bone Scaffold for Laser-Based Printing. Lecture Notes in Electrical Engineering, 2022, , 195-204.	0.4	0
2	CAD-integrated design for manufacturing and assembly in mechanical design. International Journal of Computer Integrated Manufacturing, 2022, 35, 282-325.	4.6	11
3	HoloLens 2 for Maxillofacial Surgery: A Preliminary Study. Lecture Notes in Mechanical Engineering, 2022, , 133-140.	0.4	3
4	Engineering knowledge formalization and proposition for informatics development towards a CAD-integrated DfX system for product design. Advanced Engineering Informatics, 2022, 51, 101537.	8.0	10
5	Sustainable life cycle and energy management of discrete manufacturing plants in the industry 4.0 framework. Applied Energy, 2022, 312, 118671.	10.1	17
6	Assessing 3-D Printing in Hip Replacement Surgical Planning.. Radiologic Technology, 2022, 93, 246-254.	0.1	0
7	Design for Additive Manufacturing: Methods and Tools. Applied Sciences (Switzerland), 2022, 12, 6548.	2.5	0
8	Comparison of Three 3D Segmentation Software Tools for Hip Surgical Planning. Sensors, 2022, 22, 5242.	3.8	17
9	Methodology for evaluating effects of mandibular advancement devices in treating OSAS. International Journal on Interactive Design and Manufacturing, 2021, 15, 91-94.	2.2	1
10	Evaluation of the Effects Caused by Mandibular Advancement Devices Using a Numerical Simulation Model. Lecture Notes in Mechanical Engineering, 2021, , 101-107.	0.4	0
11	Designing die inserts by additive approach: a test case. Procedia CIRP, 2021, 100, 702-707.	1.9	2
12	Design for Manufacturing and Assembly: A Method for Rules Classification. Lecture Notes in Mechanical Engineering, 2021, , 354-359.	0.4	0
13	A finite element analysis for evaluating mandibular advancement devices. Journal of Biomechanics, 2021, 119, 110298.	2.1	7
14	PARAMETRIC COST MODELLING OF COMPONENTS FOR TURBOMACHINES: PRELIMINARY STUDY. Proceedings of the Design Society, 2021, 1, 2379-2388.	0.8	1
15	Key features and novel trends for developing cost engineering methods for forged components: a systematic literature review. International Journal of Advanced Manufacturing Technology, 2021, 117, 2601-2625.	3.0	4
16	Metal Additive Manufacturing for the Rapid Prototyping of Shaped Parts: A Case Study. Computer-Aided Design and Applications, 2021, 18, 1061-1079.	0.6	10
17	A CAD-based design for manufacturing method for casted components. Procedia CIRP, 2021, 100, 235-240.	1.9	10
18	Parametric Cost Modelling for Investment Casting. Lecture Notes in Mechanical Engineering, 2021, , 386-392.	0.4	1

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19	Periodontal effects of two Somnodent oral devices for the treatment of OSA: A finite element study. Cranio - Journal of Craniomandibular Practice, 2021, , 1-11.	1.4	1
20	Design for Additive Manufacturing: A Framework to Collect and Reuse Engineering Knowledge Towards a CAD-Based Tool. , 2021, , .		2
21	A multi-objective sequential method for manufacturing cost and structural optimization of modular steel towers. Engineering With Computers, 2020, 36, 475-497.	6.1	18
22	Big data analysis for the estimation of disassembly time and de-manufacturing activity. Procedia CIRP, 2020, 90, 617-622.	1.9	6
23	A Procedure for Designing Custom-Made Implants for Forehead Augmentation in People Suffering from Apert Syndrome. Journal of Medical Systems, 2020, 44, 146.	3.6	10
24	An analytical cost estimation model for the design of axisymmetric components with open-die forging technology. International Journal of Advanced Manufacturing Technology, 2020, 110, 1869-1892.	3.0	5
25	AN ANALYTICAL COST MODEL FOR INVESTMENT CASTING. Proceedings of the Design Society DESIGN Conference, 2020, 1, 987-996.	0.8	2
26	Comparison of the Effects Caused by Three Different Mandibular Advancement Devices on the Periodontal Ligaments and Teeth for the Treatment of Osa: A Finite Element Model Study. Applied Sciences (Switzerland), 2020, 10, 6932.	2.5	6
27	A framework for analytical cost estimation of mechanical components based on manufacturing knowledge representation. International Journal of Advanced Manufacturing Technology, 2020, 107, 1131-1151.	3.0	18
28	A Procedure for Analyzing Mandible Roto-Translation Induced by Mandibular Advancement Devices. Materials, 2020, 13, 1826.	2.9	10
29	Multiperspective Ergonomic Assessment Approach for Human Centered Workplace Design. Lecture Notes in Mechanical Engineering, 2020, , 675-685.	0.4	1
30	Design Optimization: Tools and Methods for ETO Products. Lecture Notes in Mechanical Engineering, 2020, , 516-527.	0.4	2
31	A Knowledge Formalization Approach for Manufacturing Cost Estimation. Lecture Notes in Mechanical Engineering, 2020, , 279-290.	0.4	1
32	A Decision-Making Approach for Procuring Custom-Made Machineries and Components. , 2020, , .		0
33	Applying data mining technique to disassembly sequence planning: a method to assess effective disassembly time of industrial products. International Journal of Production Research, 2019, 57, 599-623.	7.5	64
34	Design of a Custom-Made Cranial Implant in Patients Suffering from Apert Syndrome. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 709-718.	0.6	2
35	Using design geometrical features to develop an analytical cost estimation method for axisymmetric components in open-die forging. Procedia CIRP, 2019, 84, 656-661.	1.9	8
36	A data framework for environmental assessment of metal arc welding processes and welded structures during the design phase. International Journal of Advanced Manufacturing Technology, 2019, 105, 967-993.	3.0	7

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37	Using engineering documentation to create a data framework for life cycle inventory of welded structures. Procedia CIRP, 2019, 80, 358-363.	1.9	4
38	Selective laser sintered mould for orbital cavity reconstruction. Rapid Prototyping Journal, 2019, 25, 95-103.	3.2	9
39	A design for disassembly tool oriented to mechatronic product de-manufacturing and recycling. Advanced Engineering Informatics, 2019, 39, 62-79.	8.0	71
40	A standard data model for life cycle analysis of industrial products: A support for eco-design initiatives. Computers in Industry, 2019, 109, 31-44.	9.9	21
41	A should costing approach for manufacturing companies. International Journal of Agile Systems and Management, 2019, 12, 382.	0.3	2
42	Cost and Temperature Homogeneity Optimization of the Heating System for Composite Materials Air Press Molding. Computer-Aided Design and Applications, 2019, 16, 1084-1097.	0.6	2
43	An Analytical Cost Estimation Approach for Generic Sheet Metal 3D Models. Computer-Aided Design and Applications, 2019, 16, 936-950.	0.6	1
44	UN MÃ‰TODO DE ANÃLISIS JERÃRQUICO PARA ANTICIPAR LA SELECCIÃ“N DE LA ESTRATEGIA DE APROVISIONAMIENTO EN LA FASE DE DISEÃ‘O. Dyna (Spain), 2019, 94, 161-167.	0.2	2
45	A should costing approach for manufacturing companies. International Journal of Agile Systems and Management, 2019, 12, 382.	0.3	1
46	SIMULACIONES CFD (COMPUTATIONAL FLUID DYNAMICS) DE CÃMARAS DE FILTROS PARA TURBINA DE GAS DE CENTRALES ELÃ‰CTRICAS: EVALUACIÃ“N DE DIFERENCIAS ENTRE MODELOS 2D Y 3D. Dyna (Spain), 2019, 94, 145-149.	0.2	0
47	Smart, Eco-Sustainable and Human-Centered Product Development Processes: 21st Century Manufacturing Industries. , 2019, , 161-175.		0
48	Design Optimization of Customizable Centrifugal Industrial Blowers for Gas Turbine Power Plants. Computer-Aided Design and Applications, 2019, 16, 1098-1111.	0.6	1
49	Environmental and Economic Evaluation of the Sheet Metal Stamping Process Using Alternative Lubricants. , 2019, , .		2
50	Manufacturing Processes Re-Engineering for Cost Reduction: The Investment Casting Case Study. , 2019, , .		2
51	Conceptual Cost Estimation of Multistage Axial Compressor Modules. , 2019, , .		0
52	Development of complex products and production strategies using a multi-objective conceptual design approach. International Journal of Advanced Manufacturing Technology, 2018, 95, 1281-1291.	3.0	26
53	Implementation of a software platform to support an eco-design methodology within a manufacturing firm. International Journal of Sustainable Engineering, 2018, 11, 79-96.	3.5	28
54	Life Cycle Model and Metrics in Shipbuilding: How to Use them in the Preliminary Design Phases. Procedia CIRP, 2018, 69, 523-528.	1.9	22

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55	A method for the cost optimization of industrial electrical routings. Computer-Aided Design and Applications, 2018, 15, 747-756.	0.6	5
56	Time-based disassembly method: how to assess the best disassembly sequence and time of target components in complex products. International Journal of Advanced Manufacturing Technology, 2018, 95, 409-430.	3.0	60
57	Life Cycle Assessment of Home Smart Objects: Kitchen Hood Cases. Procedia CIRP, 2018, 69, 499-504.	1.9	10
58	Preliminary simulation model toward the study of the effects caused by different mandibular advancement devices in OSAS treatment. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 693-702.	1.6	6
59	A dependencies satisfaction tool to support the cost oriented configuration of industrial products in the conceptual design stage. Computer-Aided Design and Applications, 2018, 15, 819-830.	0.6	2
60	Strength distribution on TMJ using mandibular advancement device for OSAS treatment: a finite element study. Dental Cadmos, 2018, 86, 757.	0.1	10
61	A design for EoL approach and metrics to favour closed-loop scenarios for products. International Journal of Sustainable Engineering, 2017, 10, 136-146.	3.5	47
62	A CAD-based method for multi-objectives optimization of mechanical products. Computer-Aided Design and Applications, 2017, 14, 563-571.	0.6	4
63	A Software Tool for the Analysis and Management of Resource Consumptions and Environmental Impacts of Manufacturing Plants. Procedia CIRP, 2017, 61, 341-346.	1.9	2
64	Towards a design-to-sustainability platform based on functional representations and simplified geometric layouts. Computer-Aided Design and Applications, 2017, 14, 301-312.	0.6	7
65	Ex vivo encapsulation of dexamethasone sodium phosphate into human autologous erythrocytes using fully automated biomedical equipment. International Journal of Pharmaceutics, 2017, 517, 175-184.	5.2	32
66	Analytical Cost Estimation Model in High Pressure Die Casting. Procedia Manufacturing, 2017, 11, 526-535.	1.9	17
67	A Collaborative End of Life platform to Favour the Reuse of Electronic Components. Procedia CIRP, 2017, 61, 166-171.	1.9	13
68	A Multi-Objective and Multi-Level Design Optimization Method for Oil and Gas Ducts. , 2017, , .		0
69	Environmental Sustainability Awareness in Product Design Practices: A Survey of Italian Companies. , 2017, , .		2
70	Analysis of the Requirements of an Early Life-cycle Cost Estimation Tool: An Industrial Survey. Procedia Manufacturing, 2017, 11, 1675-1683.	1.9	3
71	A TCO Model for Supporting the Configuration of Industrial Plants. Procedia Manufacturing, 2017, 11, 1940-1949.	1.9	5
72	Orbital Wall Reconstruction by Selective Laser Sintered Mould. , 2017, , .		3

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73	A collaborative web-based platform for the prescription of Custom-Made Insoles. Advanced Engineering Informatics, 2017, 33, 360-373.	8.0	12
74	A Method to Assess the Environmental Profile of In-House Machining Processes. , 2016, , .		0
75	PLANTLCA: A Lifecycle Approach to Map and Characterize Resource Consumptions and Environmental Impacts of Manufacturing Plants. Procedia CIRP, 2016, 48, 146-151.	1.9	14
76	A Scalable â€œDesign for Costingâ€•Platform: A Practical Case in Ball Valves Industry. Procedia CIRP, 2016, 50, 311-317.	1.9	2
77	Includes Knowledge of Dismantling Centers in the Early Design Phase: A Knowledge-based Design for Disassembly Approach. Procedia CIRP, 2016, 48, 401-406.	1.9	20
78	A Multi-objective Design Approach to Include Material, Manufacturing and Assembly Costs in the Early Design Phase. Procedia CIRP, 2016, 52, 251-256.	1.9	24
79	Design for Manufacturing and Assembly vs. Design to Cost: Toward a Multi-objective Approach for Decision-making Strategies During Conceptual Design of Complex Products. Procedia CIRP, 2016, 50, 275-280.	1.9	41
80	An approach to foster eco-design in 'traditional' companies without eco-knowledge. International Journal of Productivity and Quality Management, 2016, 18, 150.	0.2	1
81	Disassembly Knowledge Classification and Potential Application: A Preliminary Analysis on a Washing Machine. , 2016, , .		3
82	Usability Demonstration of the G.EN.ESI Eco-Design Platform: The Cooker Hood Case Study. , 2015, , .		0
83	A CAD Tool to Design Bespoke Insoles for Severe Orthopaedic Treatments. Computer-Aided Design and Applications, 2015, 12, 700-709.	0.6	4
84	A System to Increase the Sustainability and Traceability of Supply Chains. Procedia CIRP, 2015, 29, 227-232.	1.9	27
85	Identification of Weld Beads in Assemblies of B-Rep Models. Computer-Aided Design and Applications, 2014, 11, 263-274.	0.6	4
86	A Method for the Estimation of the Economic and Ecological Sustainability of Production Lines. Procedia CIRP, 2014, 15, 147-152.	1.9	22
87	Eco-Design Platform Within an Extended Enterprise: How to Implement It?. , 2014, , .		1
88	An Approach to Analytically Evaluate the Product Disassemblability during the Design Process. Procedia CIRP, 2014, 21, 336-341.	1.9	19
89	End-of-Life Indices to Manage the Demanufacturing Phase during the Product Design Process. , 2014, , 339-344.		1
90	Tool for Life Cycle Costing of Electric Motors during the Early Design Phases. , 2014, , 431-436.		3

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91	CAD tools for designing shoe lasts for people with diabetes. CAD Computer Aided Design, 2013, 45, 977-990.	2.7	24
92	Product Innovations and Eco-Sustainability: An Approach to Evaluate the Relationships. Key Engineering Materials, 2013, 572, 74-77.	0.4	2
93	Platform to support dynamic collaborative design processes in virtual enterprises. International Journal of Computer Integrated Manufacturing, 2013, 26, 1003-1020.	4.6	8
94	Integrated Software Platform for Green Engineering Design and Product Sustainability. , 2013, , 87-92.		9
95	A Methodology and a Software Platform to Implement an Eco-Design Strategy in a Manufacturing Company. , 2013, , .		3
96	Tools for design and validation of shoe lasts for diabetic patients. Footwear Science, 2012, 4, 221-241.	2.1	3
97	Promoting and Managing End-of-Life Closed-Loop Scenarios of Products Using a Design for Disassembly Evaluation Tool. , 2012, , .		6
98	LeanDfd: A Design for Disassembly Approach to Evaluate the Feasibility of Different End-of-Life Scenarios for Industrial Products. , 2012, , 215-220.		7
99	Automatic Geometric Recognition of Weld Beads for Supporting Virtual Prototyping and Cost Estimation of Welding. , 2012, , .		0
100	Supporting virtual teamwork in Collaborative Product Development. International Journal of Product Development, 2011, 15, 90.	0.2	2
101	A knowledge-based workflow to dynamically manage human interaction in extended enterprise. International Journal on Interactive Design and Manufacturing, 2011, 5, 1-15.	2.2	8
102	Shoes Customization Design Tools for the â€œDiabetic Footâ€• Computer-Aided Design and Applications, 2011, 8, 693-711.	0.6	14
103	Automation of flexible components virtual prototyping: methodology, tools and validation. Journal of Design Research, 2010, 8, 272.	0.1	2
104	How to Support Mechanical Product Cost Estimation in the Embodiment Design Phase. Advanced Concurrent Engineering, 2010, , 465-477.	0.2	7
105	Collaborative Design System for Supporting Dynamic Virtual Enterprises. International Federation for Information Processing, 2010, , 577-584.	0.4	6
106	Elaboration of a Reliable Strategy Based on Real-Time PCR To Characterize Genetically Modified Plantlets and To Evaluate the Efficiency of a Marker Gene Removal in Grape (Vitis spp.). Journal of Agricultural and Food Chemistry, 2009, 57, 2668-2677.	5.2	30
107	A CAD-based Method for Multi-objectives Optimization of Mechanical Products. , 0, , .		1
108	A Design-to-sustainability Platform based on Functional Representations and Simplified Geometric Layouts. , 0, , .		1

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109	A CAD Tool to Design Bespoke Insoles for Severe Orthopedic Treatments. , 0, , .		0
110	A knowledge-based Tool to Support the Design-to-cost Configuration of Industrial Products from Conceptual Design Stages. , 0, , .		0
111	A Method for the Cost Optimization of Industrial Electrical Routings. , 0, , .		0
112	A KNOWLEDGE-BASED AND MULTI-USER PLATFORM FOR PRESCRIBING CUSTOM-MADE INSOLES. , 0, , .		0
113	Cost and Thermo-Structural Optimization of a Mold Used for Manufacturing CFRP Components with an Out-Of-Autoclave Process. , 0, , .		0
114	An Analytical Cost Estimation Approach for Generic Sheet Metal 3D Models. , 0, , .		0
115	Design Optimization of Customizable Centrifugal Industrial Blowers for Gas Turbine Power Plants. , 0, , .		1
116	Metal Additive Manufacturing for the Rapid Prototyping of Shaped Parts: A Case Study. , 0, , .		0