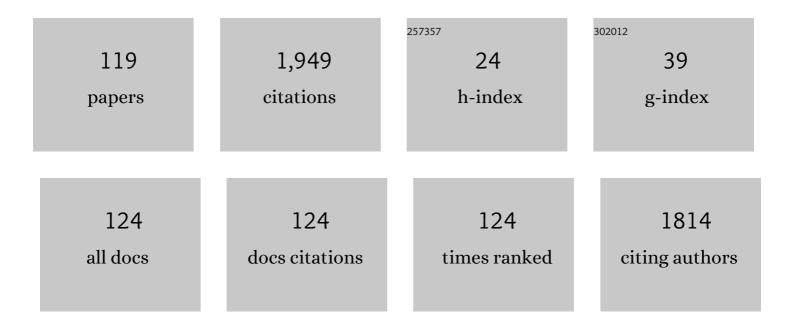
Antonio Lanzotti

List of Publications by Year in descending order

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Δητομίο Ι ανζόττι

#	Article	IF	CITATIONS
1	The impact of process parameters on mechanical properties of parts fabricated in PLA with an open-source 3-D printer. Rapid Prototyping Journal, 2015, 21, 604-617.	1.6	419
2	A comparison between mechanical properties of specimens 3D printed with virgin and recycled PLA. Procedia CIRP, 2019, 79, 143-146.	1.0	94
3	On the influence of scanning factors on the laser scanner-based 3D inspection process. International Journal of Advanced Manufacturing Technology, 2016, 84, 1787-1799.	1.5	68
4	Mechanical behavior of bulk direct composite versus block composite and lithium disilicate indirect Class II restorations by CAD-FEM modeling. Dental Materials, 2017, 33, 690-701.	1.6	63
5	CAD-FE modeling and analysis of class II restorations incorporating resin-composite, glass ionomer and glass ceramic materials. Dental Materials, 2017, 33, 1456-1465.	1.6	56
6	Understanding Process Parameter Effects of RepRap Open-Source Three-Dimensional Printers Through a Design of Experiments Approach. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	48
7	Mechanical behavior of endodontically restored canine teeth: Effects of ferrule, post material and shape. Dental Materials, 2017, 33, 1466-1472.	1.6	46
8	The effects of cavity-margin-angles and bolus stiffness on the mechanical behavior of indirect resin composite class II restorations. Dental Materials, 2017, 33, e39-e47.	1.6	43
9	Adhesive class I restorations in sound molar teeth incorporating combined resin-composite and glass ionomer materials: CAD-FE modeling and analysis. Dental Materials, 2019, 35, 1514-1522.	1.6	41
10	A virtual reality approach for usability assessment: case study on a wheelchair-mounted robot manipulator. Engineering With Computers, 2013, 29, 359-373.	3.5	39
11	Kanseiengineering approach for total quality design and continuous innovation. TQM Journal, 2008, 20, 324-337.	2.1	38
12	FE analysis of conceptual hybrid composite endodontic post designs in anterior teeth. Dental Materials, 2018, 34, 1063-1071.	1.6	33
13	Effect of Shrinking and No Shrinking Dentine and Enamel Replacing Materials in Posterior Restoration: A 3D-FEA Study. Applied Sciences (Switzerland), 2021, 11, 2215.	1.3	31
14	Concept design for quality in virtual environment. Computers and Graphics, 2006, 30, 1011-1019.	1.4	29
15	Improving MTM-UAS to predetermine automotive maintenance times. International Journal on Interactive Design and Manufacturing, 2012, 6, 265-273.	1.3	28
16	The use of different adhesive filling material and mass combinations to restore class II cavities under loading and shrinkage effects: a 3D-FEA. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 485-495.	0.9	27
17	The role of cortical zone level and prosthetic platform angle in dental implant mechanical response: A 3D finite element analysis. Dental Materials, 2021, 37, 1688-1697.	1.6	27
18	Improving concept design of divertor support system for FAST tokamak using TRIZ theory and AHP approach. Fusion Engineering and Design, 2013, 88, 3014-3020.	1.0	26

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19	Improving comfort of shoe sole through experiments based on CAD-FEM modeling. Medical Engineering and Physics, 2013, 35, 36-46.	0.8	26
20	Tensile Properties Characterization of AlSi10Mg Parts Produced by Direct Metal Laser Sintering via Nested Effects Modeling. Materials, 2017, 10, 144.	1.3	26
21	Experimental study on hydrodynamic performances of naval propellers to adopt new additive manufacturing processes. International Journal on Interactive Design and Manufacturing, 2018, 12, 1-14.	1.3	26
22	Combining ESPI with laser scanning for 3D characterization of racing tyres sections. Optics and Lasers in Engineering, 2018, 104, 71-77.	2.0	26
23	A new interactive design approach for concept selection based on expert opinion. International Journal on Interactive Design and Manufacturing, 2018, 12, 1189-1199.	1.3	26
24	Designing in VR. International Journal on Interactive Design and Manufacturing, 2009, 3, 51-53.	1.3	25
25	Design and Analysis of 3D Customized Models of a Human Mandible. Procedia CIRP, 2016, 49, 199-202.	1.0	24
26	On the Geometric Accuracy of RepRap Open-Source Three-Dimensional Printer. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	23
27	Influence of Framework Material and Posterior Implant Angulation in Full-Arch All-on-4 Implant-Supported Prosthesis Stress Concentration. Dentistry Journal, 2022, 10, 12.	0.9	23
28	Virtual concepts and experiments to improve quality of train interiors. International Journal on Interactive Design and Manufacturing, 2009, 3, 65-79.	1.3	19
29	Interactive tools for safety 4.0: virtual ergonomics and serious games in real working contexts. Ergonomics, 2020, 63, 324-333.	1.1	19
30	Iterative and Participative Axiomatic Design Process in complex mechanical assemblies: case study on fusion engineering. International Journal on Interactive Design and Manufacturing, 2015, 9, 325-338.	1.3	18
31	Concept design of the DEMO divertor cassette-to-vacuum vessel locking system adopting a systems engineering approach. Fusion Engineering and Design, 2015, 94, 72-81.	1.0	17
32	On the usability assessment of the graphical user interface related to a digital pattern software tool. International Journal on Interactive Design and Manufacturing, 2017, 11, 457-469.	1.3	17
33	Towards a new monitoring system to detect illegal steps in race-walking. International Journal on Interactive Design and Manufacturing, 2017, 11, 317-329.	1.3	17
34	Concept design in virtual reality of a forestry trailer using a QFD-TRIZ based approach. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2013, 37, 789-801.	0.8	16
35	Design Progress of the DEMO Divertor Locking System According to IPADeP Methodology. Procedia CIRP, 2015, 34, 56-63.	1.0	16
36	Development of a New Experimental Protocol for Analysing the Race-walking Technique Based on Kinematic and Dynamic Parameters. Procedia Engineering, 2016, 147, 741-746.	1.2	15

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37	Assessment of upper limb muscle synergies for industrial overhead tasks: a preliminary study. , 2019, , .		15
38	Biomechanical indices represented on radar chart for assessment of performance and infringements in elite race-walkers. Sports Engineering, 2020, 23, 1.	0.5	15
39	Automatic evaluation of variational parameters for tolerance analysis of rigid parts based on graphs. International Journal on Interactive Design and Manufacturing, 2013, 7, 239-248.	1.3	14
40	User-centered design of an innovative foot stretcher for ergometers to enhance the indoor rowing training. International Journal on Interactive Design and Manufacturing, 2018, 12, 1211-1221.	1.3	14
41	Robust design of car packaging in virtual environment. International Journal on Interactive Design and Manufacturing, 2008, 2, 39-46.	1.3	13
42	Concept design of divertor remote handling system for the FAST machine. Fusion Engineering and Design, 2013, 88, 2052-2056.	1.0	12
43	Outdoor Tests for the Validation of an Inertial System Able to Detect Illegal Steps in Race-walking. Procedia Engineering, 2016, 147, 544-549.	1.2	12
44	Controlling form errors in 3D printed models associated to size and position on the working plane. International Journal on Interactive Design and Manufacturing, 2018, 12, 969-977.	1.3	12
45	Understanding the Human Motor Control for User-Centered Design of Custom Wearable Systems: Case Studies in Sports, Industry, Rehabilitation. Lecture Notes in Mechanical Engineering, 2020, , 753-764.	0.3	12
46	Design and analysis of comparative experiments to assess the (dis-)comfort of aircraft seating. Applied Ergonomics, 2019, 76, 155-163.	1.7	11
47	Collaborative Workplace Design: A Knowledge-Based Approach to Promote Human–Robot Collaboration and Multi-Objective Layout Optimization. Applied Sciences (Switzerland), 2021, 11, 12147.	1.3	11
48	Design and development of an automotive magnetorheological semi-active differential. Mechatronics, 2014, 24, 426-435.	2.0	10
49	Evaluation of human joint angles in industrial tasks using OpenSim. , 2019, , .		10
50	Using the KUKA LBR iiwa Robot as Haptic Device for Virtual Reality Training of Hip Replacement Surgery. , 2019, , .		10
51	Mechanical behavior of Class I cavities restored by different material combinations under loading and polymerization shrinkage stress. A 3D-FEA study. American Journal of Dentistry, 2019, 32, 55-60.	0.1	10
52	Biomechanical analysis of the upper body during overhead industrial tasks using electromyography and motion capture integrated with digital human models. International Journal on Interactive Design and Manufacturing, 2022, 16, 733-752.	1.3	10
53	An interactive design approach for nuclear fusion purposes: remote handling system for FAST divertor. International Journal on Interactive Design and Manufacturing, 2014, 8, 55-65.	1.3	9
54	Low-Velocity Impacts on a Polymeric Foam for the Passive Safety Improvement of Sports Fields: Meshless Approach and Experimental Validation. Applied Sciences (Switzerland), 2018, 8, 1174.	1.3	9

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55	Validation of a novel wearable solution for measuring L5/S1 load during manual material handling tasks. , 2020, , .		9
56	A new approach to the anthropocentric design of human–robot collaborative environments. Acta IMEKO (2012), 2020, 9, 80.	0.4	9
57	Task-based Motion Control of Digital Humans for Industrial Applications. Procedia CIRP, 2017, 62, 535-540.	1.0	8
58	Flatness, circularity and cylindricity errors in 3D printed models associated to size and position on the working plane. Lecture Notes in Mechanical Engineering, 2017, , 201-212.	0.3	8
59	A wearable inertial device based on biomechanical parameters for sports performance analysis in race-walking: preliminary results. , 2019, , .		8
60	The anthropometric basis for the designing of collaborative workplaces. , 2019, , .		8
61	Virtual production planning of a high-speed train using a discrete event simulation based approach. International Journal on Interactive Design and Manufacturing, 2015, 9, 65-75.	1.3	7
62	Automotive power window system design: object-oriented modelling and design of experiments integration within a digital pattern approach. Mechanics and Industry, 2016, 17, 505.	0.5	7
63	A graph-based method and a software tool for interactive tolerance specification. Procedia CIRP, 2018, 75, 173-178.	1.0	7
64	Modelling Head Impact Safety Performance of Polymer-based Foam Protective Devices. Procedia Engineering, 2014, 72, 581-586.	1.2	6
65	On the usability of augmented reality devices for interactive risk assessment. International Journal of Safety and Security Engineering, 2018, 8, 132-138.	0.5	6
66	An Efficient and Easy Discretizing Method for the Treatment of Noise Factors in Robust Design. Asian Journal on Quality, 2007, 8, 188-197.	0.5	5
67	Wind speed parameter estimation from oneâ€month sample via Bayesian approach. Quality and Reliability Engineering International, 2010, 26, 853-862.	1.4	5
68	Towards the integration of thermal physics and geometrical constraints for a 3D-multiphysical sketcher. , 2015, , .		5
69	Contribution to risk assessment in football by video analysis of overstepping boundary line events. Sports Engineering, 2016, 19, 129-137.	0.5	5
70	Robust interactive design for ergonomics and safety: R-IDEaS procedure and applications. International Journal on Interactive Design and Manufacturing, 2019, 13, 1259-1268.	1.3	5
71	A model-based approach for the analysis of aircraft seating comfort. Work, 2021, 68, S251-S255.	0.6	5
72	Interactive Tools for Safety 4.0: Virtual Ergonomics and Serious Games in Tower Automotive. Advances in Intelligent Systems and Computing, 2019, , 270-280.	0.5	5

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73	Multi-wave light technology enabling closed-loop in-process quality control for automotive battery assembly with remote laser welding. , 2019, , .		5
74	A Top-Down Approach for Virtual Redesign and Ergonomic Optimization of an Agricultural Tractor's Driver Cab. , 2012, , .		4
75	Simulation of forest harvesting alternative processes and concept design ofan innovative skidding winch focused on productivity improvement. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2015, 39, 350-359.	0.8	4
76	â€~Federica's MOOC' (Massive Open Online Course): a blended course in engineering drawing at Federicc II. International Journal on Interactive Design and Manufacturing, 2019, 13, 1115-1128.	1.3	4
77	User-centered approach for design and development of industrial workplace. International Journal on Interactive Design and Manufacturing, 2021, 15, 121-123.	1.3	4
78	A Digital Pattern Approach to 3D CAD Modelling of Automotive Car Door Assembly by Using Directed Graphs. Mechanisms and Machine Science, 2017, , 175-185.	0.3	4
79	Robust Ergonomic Optimization of Car Packaging in Virtual Environment. Lecture Notes in Mechanical Engineering, 2017, , 1177-1186.	0.3	4
80	Innovative design for FAST divertor compatible with remote handling, electromagnetic and mechanical analyses. Fusion Engineering and Design, 2015, 98-99, 1465-1469.	1.0	3
81	Design of Additively Manufactured Lattice Structures for Tissue Regeneration. Materials Science Forum, 2018, 941, 2154-2159.	0.3	3
82	Biomechanicalâ \in "based torque reconstruction of the human shoulder joint in industrial tasks. , 2019, , .		3
83	Preliminary Requirements of a Soft Upper-Limb Exoskeleton for Industrial Overhead Tasks Based on Biomechanical Analysis. Lecture Notes in Networks and Systems, 2022, , 317-324.	0.5	3
84	Robust Ergonomic Virtual Design. , 2009, , 43-64.		3
85	A NEW INTERACTIVE RAILWAY VIRTUAL SIMULATOR FOR TESTING PREVENTIVE SAFETY. WIT Transactions on the Built Environment, 2018, , .	0.0	3
86	Requirements Engineering in Complex Systems Design. Lecture Notes in Mechanical Engineering, 2022, , 658-667.	0.3	3
87	Improving design validation of playground equipment in virtual reality. International Journal on Interactive Design and Manufacturing, 2013, 7, 191-201.	1.3	2
88	Window shape effect in a single bowden power window system. , 2017, , .		2
89	Some tools to control the technological innovation process. , 1995, , 412-415.		2

90 Improving the Robustness of Mechatronic Systems. , 2016, , 113-128.

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91	Functional or Nonfunctional Cusps Preservation for Molars Restored with Indirect Composite or Glass-Ceramic Onlays: 3D FEA Study. Polymers, 2021, 13, 3831.	2.0	2
92	Towards the Upscaling of Biomanufacturing Process Enhanced by Human-Robot Collaboration. Lecture Notes in Mechanical Engineering, 2022, , 615-622.	0.3	2
93	Design of Wearables for Biosignal Acquisition: A User Centered Approach for Concept Generation and Selection. Lecture Notes in Mechanical Engineering, 2022, , 818-826.	0.3	2
94	A Functional Approach to Optimal Dimensioning of Automotive Transmission Shafts. , 2012, , .		1
95	Object-oriented model validation for single bowden power window system development. , 2015, , .		1
96	Video-Analysis of Player's Kinematics in Running out of Boundaries in Association Football Fields. Procedia Engineering, 2016, 147, 234-239.	1.2	1
97	An autonomous and self-locating handling device for reverse engineering systems. , 2019, , .		1
98	Functional analyses to assess the effect of the curing process on the properties of light activated composites. Production Engineering, 2019, 13, 239-246.	1.1	1
99	Development of site–specific biomechanical indices for estimating injury risk in cycling. , 2020, , .		1
100	Understanding the Effect of Gloves on Hand-Arm Vibrations in Road Cycling. Proceedings (mdpi), 2020, 49, 70.	0.2	1
101	Comparison among different inertial-based algorithms for the automatic detection of temporal events in sprint tests: a preliminary study on elite athletes with intellectual impairment. , 2020, , .		1
102	Towards innovative road cycle gloves for low vibration transmission. International Journal on Interactive Design and Manufacturing, 2021, 15, 155-158.	1.3	1
103	Statistical Design for Innovation in Virtual Reality. , 2009, , 27-41.		1
104	Iterative and Participative Axiomatic Design Process to Improve Conceptual Design of Large-Scale Engineering Systems. Lecture Notes in Mechanical Engineering, 2020, , 492-505.	0.3	1
105	Loading stress distribution in posterior teeth restored by different core materials under fixed zirconia partial denture: A 3D-FEA study. American Journal of Dentistry, 2021, 34, 157-162.	0.1	1
106	Beyond robust design: an example of synergy between statistics and advanced engineering design. Asian Journal on Quality, 2002, 3, 13-28.	0.5	0
107	Improving Quality of Train Interiors Through a VR-Based Participative Design Approach. , 2012, , .		0
108	Collaborative Environments, Knowledge Creation and Knowledge Reuse for Railway Industries. , 2015, ,		0

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109	Concept Design, Virtual Prototyping and Ergonomic Analysis of an Innovative Skidding Winch Using a DES-TRIZ Approach. , 2015, , .		0
110	Towards Adaptive Switches through implementation of visual feedback in assistive devices. , 2019, , .		0
111	The IART System for Race Walking: Experience with World-Class Olympic Race Walkers. Proceedings (mdpi), 2020, 49, .	0.2	0
112	A graph-based approach and an interactive tool for preliminary digital prototyping. International Journal on Interactive Design and Manufacturing, 2021, 15, 125-127.	1.3	0
113	Virtual environments and prototyping for human health and safety. , 2011, , 103-112.		0
114	Developing a Graphical Interface for Pre-Posterior Bayesian Analysis. Contributions To Statistics, 1997, , 135-147.	0.2	0
115	A Statistical Approach to Simulate Instances of Archeological Findings Fragments. Journal of Automation, Mobile Robotics and Intelligent Systems, 0, , 46-64.	0.4	0
116	Mechanics–Based Virtual Prototyping of Robots with Deformable Bodies and Flexible Joints. Lecture Notes in Mechanical Engineering, 2020, , 444-457.	0.3	0
117	Optimization Design Strategy for Additive Manufacturing Process to Develop 3D Magnetic Nanocomposite Scaffolds. Lecture Notes in Mechanical Engineering, 2020, , 948-958.	0.3	0
118	A Preliminary Analysis of the Effects of Process Parameters on the Impact Resistance of 3D Printed PETG and HIPS. Lecture Notes in Mechanical Engineering, 2022, , 524-534.	0.3	0
119	A Digital Pattern Methodology supporting Railway Industries in Portfolio Management. , 0, , .		Ο