

Tommaso Ingrassia

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

377
citations

759233

12
h-index

888059

17
g-index

45
all docs

45
docs citations

45
times ranked

242
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element analysis of two total knee joint prostheses. <i>International Journal on Interactive Design and Manufacturing</i> , 2013, 7, 91-101.	2.2	31
2	VirDe: a new virtual reality design approach. <i>International Journal on Interactive Design and Manufacturing</i> , 2009, 3, 1-11.	2.2	24
3	Optimal positioning of the humeral component in the reverse shoulder prosthesis. <i>Musculoskeletal Surgery</i> , 2014, 98, 135-142.	1.5	23
4	Biomechanical analysis of the humeral tray positioning in reverse shoulder arthroplasty design. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 651-661.	2.2	22
5	A comparison of simplex and simulated annealing for optimization of a new rear underrun protective device. <i>Engineering With Computers</i> , 2013, 29, 345-358.	6.1	17
6	Process parameters influence in additive manufacturing. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 261-270.	0.4	17
7	Virtual simulation of an osseointegrated trans-humeral prosthesis: A falling scenario. <i>Injury</i> , 2018, 49, 784-791.	1.7	17
8	Fluid-structure interaction of downwind sails: a new computational method. <i>Journal of Marine Science and Technology</i> , 2019, 24, 86-97.	2.9	17
9	A multi-technique simultaneous approach for the design of a sailing yacht. <i>International Journal on Interactive Design and Manufacturing</i> , 2017, 11, 19-30.	2.2	16
10	A new method to evaluate the influence of the glenosphere positioning on stability and range of motion of a reverse shoulder prosthesis. <i>Injury</i> , 2019, 50, S12-S17.	1.7	15
11	Influence of the metaphysis positioning in a new reverse shoulder prosthesis. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 469-478.	0.4	15
12	Mechanical behavior of a sandwich with corrugated GRP core: numerical modeling and experimental validation. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 317-326.	0.9	14
13	Contact between the components of a knee prosthesis: numerical and experimental study. <i>Frattura Ed Integrita Strutturale</i> , 2012, 6, 56-68.	0.9	13
14	Numerical study of the components positioning influence on the stability of a reverse shoulder prosthesis. <i>International Journal on Interactive Design and Manufacturing</i> , 2014, 8, 187-197.	2.2	13
15	Virtual prototyping of a new intramedullary nail for tibial fractures. <i>International Journal on Interactive Design and Manufacturing</i> , 2013, 7, 159-169.	2.2	12
16	A new design approach to the use of composite materials for heavy transport vehicles. <i>International Journal of Vehicle Design</i> , 2007, 44, 311.	0.3	11
17	A new design approach for customised medical devices realized by additive manufacturing. <i>International Journal on Interactive Design and Manufacturing</i> , 2020, 14, 1171-1178.	2.2	11
18	Numerical simulations on periprosthetic bone remodeling: a systematic review. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 204, 106072.	4.7	10

#	ARTICLE	IF	CITATIONS
19	Influence of sutures configuration on the strength of tendon-patch joints for rotator cuff tears treatment. <i>Injury</i> , 2019, 50, S18-S23.	1.7	9
20	Additively manufactured textiles and parametric modelling by generative algorithms in orthopaedic applications. <i>Rapid Prototyping Journal</i> , 2020, 26, 827-834.	3.2	9
21	Thermal stress analysis of different full and ventilated disc brakes. <i>Frattura Ed Integrita Strutturale</i> , 2016, , .	0.9	8
22	Solar sail elastic displacement effects on interplanetary trajectories. <i>Acta Astronautica</i> , 2013, 82, 263-272.	3.2	7
23	Influence of the Screw Positioning on the Stability of Locking Plate for Proximal Tibial Fractures: A Numerical Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4941.	2.5	7
24	On the Left Ventricular Remodeling of Patients with Stenotic Aortic Valve: A Statistical Shape Analysis. <i>Bioengineering</i> , 2021, 8, 66.	3.5	6
25	Parametric Hull Design with Rational BÃ©zier Curves and Estimation of Performances. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 360.	2.6	5
26	Design of a new high energy rear underrun protective device. <i>WIT Transactions on the Built Environment</i> , 2008, , .	0.0	5
27	Analysis of different geometrical features to achieve close-to-bone stiffness material properties in medical device: A feasibility numerical study. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106875.	4.7	5
28	Biomechanical Analysis of Two Types of Osseointegrated Transfemoral Prosthesis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8263.	2.5	4
29	Assessment of paradoxical anterior translation in a CR total knee prosthesis coupling dynamic RSA and FE techniques. <i>Journal of Experimental Orthopaedics</i> , 2021, 8, 50.	1.8	3
30	Redesign of a Reverse Shoulder Prosthesis: Kinematic and Mechanical Study. <i>Applied Mechanics and Materials</i> , 2014, 670-671, 847-851.	0.2	2
31	Advances on mechanics, design engineering and manufacturing. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 1155-1156.	2.2	2
32	New Customized Elbow Orthosis Made by Additive Manufacturing. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 473-483.	0.4	2
33	Improving the Downwind Sail Design Process by Means of a Novel FSI Approach. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 624.	2.6	1
34	Design of a Low Cost 3D Printable Single-Component Compliant Mechanism for FWMAVâ€™s Wing Actuation. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 39-49.	0.4	1
35	Behaviour of a speargun with a novel muzzle Comportamento di un fucile subacqueo con testata innovativa. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 132-142.	0.9	0
36	A New ESO-Based Method to Find the Optimal Topology of Structures Subject to Multiple Load Conditions. <i>Applied Mechanics and Materials</i> , 0, 670-671, 902-906.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Influence of the evolutionary optimization parameters on the optimal topology. Lecture Notes in Mechanical Engineering, 2017, , 15-24.	0.4	0
38	Two different posterior-stabilized mobile-bearing TKA designs: navigator evaluation of intraoperative kinematic differences. Musculoskeletal Surgery, 2021, 105, 173-181.	1.5	0
39	Generative Design for Additively Manufactured Textiles in Orthopaedic Applications. Lecture Notes in Mechanical Engineering, 2021, , 241-248.	0.4	0
40	2D size, position and shape definition of defects by B-scan image analysis. Frattura Ed Integrita Strutturale, 2016, , .	0.9	0
41	A New Approach to Evaluate the Biomechanical Characteristics of Osseointegrated Dental Implants. Lecture Notes in Mechanical Engineering, 2020, , 801-811.	0.4	0
42	CAD Modeling for Evaluating LVOT Obstruction in Transcatheter Mitral Valve Replacement. Lecture Notes in Mechanical Engineering, 2020, , 776-787.	0.4	0