Francesca Cosmi

List of Publications by Year in descending order

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Version: 2024-02-01

50 papers	724 citations	687220 13 h-index	580701 25 g-index
50 all docs	50 docs citations	50 times ranked	548 citing authors

#	Article	IF	Citations
1	Validation of an in-house-designed tensile testing machine for the mechanical characterization of 3D-printed specimens. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1840-1850.	1.1	1
2	Experimental characterization and validation by FEM analyses of a 3D-printed support. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012009.	0.3	3
3	A mechanical characterization of SLA 3D-printed specimens for low-budget applications. Materials Today: Proceedings, 2020, 32, 194-201.	0.9	24
4	Bone fracture risk: Density and microarchitecture qualification. Materials Today: Proceedings, 2020, 32, 93-97.	0.9	0
5	Morphological and structural bone alterations in a rare disease. Materials Today: Proceedings, 2019, 12, 246-251.	0.9	2
6	BESTESTÂ®: a new diagnostic opportunity for bone structure evaluation in oncology. Breast, 2019, 44, S128-S129.	0.9	0
7	Bone Structure Evaluation : Perspectives In Oncology. Materials Today: Proceedings, 2019, 7, 455-462.	0.9	2
8	3D-printed ankle-foot orthosis: a design method. Materials Today: Proceedings, 2019, 12, 252-261.	0.9	36
9	Abstract P1-03-08: New diagnostic tools for bone health assessment: Perspectives in medical oncology. , 2019, , .		0
10	Osteoporosis risk factors and bone microstructure evaluation: a population breakdown. Materials Today: Proceedings, 2018, 5, 26772-26777.	0.9	3
11	The Bone Structure Index and the requirements for its evaluation with a hand-held x-ray imaging system. Materials Today: Proceedings, 2018, 5, 26667-26672.	0.9	2
12	Mechanical characterization of 3D-printed objects. Materials Today: Proceedings, 2018, 5, 26739-26746.	0.9	13
13	Morphological and structural evaluation of trabecular bone in early and late stage of osteoarthritis. Materials Today: Proceedings, 2017, 4, 5779-5784.	0.9	2
14	Preliminary Design of an x-ray Imaging System for the Bone Structure Index Evaluation. Materials Today: Proceedings, 2016, 3, 947-952.	0.9	7
15	Threshold Identification for Microâ€Tomographic Damage Characterisation in a Shortâ€Fibreâ€Reinforced Polymer. Strain, 2015, 51, 171-179.	1.4	10
16	A mesoscale study of the degradation of bone structural properties in modeled microgravity conditions. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 44, 61-70.	1.5	14
17	Evaluation of the structural quality of bone in a case of progressive osteoporosis complicating a Complex Regional Pain Syndrome (CRPS) of the upper limb. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 517-528.	1.5	8
18	Analisys of the fatigue properties of different specimens of a 10% by weight short glass fibre reinforced polyamide 6.6. Polymer Testing, 2014, 40, 149-155.	2.3	5

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19	Micro-CT investigation on fatigue damage evolution in short fibre reinforced polymers. Composites Science and Technology, 2013, 79, 70-76.	3.8	78
20	Analysis of fibre orientation distribution in short fibre reinforced polymers: A comparison between optical and tomographic methods. Composites Science and Technology, 2012, 72, 2002-2008.	3.8	102
21	Local Anisotropy and Elastic Properties in a Short Glass Fibre Reinforced Polymer Composite. Strain, 2011, 47, 215-221.	1.4	9
22	Phase contrast micro-tomography and morphological analysis of a short carbon fibre reinforced polyamide. Composites Science and Technology, 2011, 71, 23-30.	3.8	46
23	Analysis of the dependence of the tensile behaviour of a short fibre reinforced polyamide upon fibre volume fraction, length and orientation. Procedia Engineering, 2011, 10, 2129-2134.	1.2	32
24	A micro-mechanical model of the elastic properties of a short fibre reinforced polyamide. Procedia Engineering, 2011, 10, 2135-2140.	1.2	9
25	An Application of the Cell Method to Multiaxial Fatigue Assessment of a Test Component under Different Criteria. Strain, 2010, 46, 148-158.	1.4	0
26	Combined Effect of Notches and Fibre Orientation on Fatigue Behaviour of Short Fibre Reinforced Polyamide. Strain, 2010, 46, 435-445.	1.4	29
27	The optimization of parts within complex assemblies. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 969-979.	1.1	0
28	Studio del danneggiamento mediante tomografia in luce del sincrotrone: impatto di un cono dâ€™ombra sulla qualitÃ finale delle ricostruzioni. Frattura Ed Integrita Strutturale, 2010, 4, 17-23.	0.5	0
29	Structural analysis of rat bone explants kept in vitro in simulated microgravity conditions. Journal of the Mechanical Behavior of Biomedical Materials, 2009, 2, 164-172.	1.5	18
30	Morphology-based prediction of elastic properties of trabecular bone samples. Acta of Bioengineering and Biomechanics, 2009, 11, 3-9.	0.2	1
31	Local anisotropy analysis of injection moulded fibre reinforced polymer composites. Composites Science and Technology, 2008, 68, 2574-2581.	3.8	118
32	Analisi dellâ€™anisotropia microstrutturale in materiali compositi rinforzati con fibre corte. Frattura Ed Integrita Strutturale, 2008, 2, 18-29.	0.5	0
33	Mechanical Behavior of One Internal Fixator (Oâ€™nil Plate and Screws System): A Finite Element Study and Clinical Experiences. Techniques in Orthopaedics, 2007, 22, 173-180.	0.1	8
34	Numerical and experimental structural analysis of trabecular architectures. Meccanica, 2007, 42, 85-93.	1.2	14
35	The application of the cell method in a clinical assessment of bone fracture risk. Acta of Bioengineering and Biomechanics, 2007, 9, 35-9.	0.2	20
36	A finite element method comparison of wear in two metal-on-metal total hip prostheses. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2006, 220, 871-879.	1.0	11

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37	Two-dimension estimate of effective properties of solid with random voids. Theoretical and Applied Fracture Mechanics, 2004, 42, 183-189.	2.1	7
38	Numerical modeling of porous materials' mechanical behavior with the cell method. , 2003, , 1915-1917.		1
39	Numerical modeling of porous materials' mechanical behavior with the cell method. , 2003, , 1915-1917.		1
40	Sintered Alloys Mechanical Properties Simulation with Cell Method. , 2002, , 809-816.		0
41	Clinical efficacy and tolerability of a steady dosage schedule of local nasal immunotherapy. Results of preseasonal treatment in grass pollen rhinitis. Annals of Allergy, Asthma and Immunology, 1999, 82, 47-51.	0.5	21
42	A New Telerobotic Application: Remote Laparoscopic Surgery Using Satellites and Optical Fiber Networks for Data Exchange. International Journal of Robotics Research, 1996, 15, 267-279.	5.8	25
43	Telerobotic surgery project for laparoscopy. Robotica, 1995, 13, 397-400.	1.3	8
44	Teleoperator response in a touch task with different display conditions. IEEE Transactions on Systems, Man, and Cybernetics, 1995, 25, 878-881.	0.9	12
45	<title>Telerobotics surgery in a transatlantic experiment: application in laparoscopy</title>. , 1993, , .		8
46	Realization of a prosthesis of the lower limb: Development of kinematics. Robotics and Computer-Integrated Manufacturing, 1991, 8, 137-142.	6.1	2
47	Evaluation of human control in telerobotics by means of EMG. , 0, , .		8
48	The first experiment in the world of robotic telesurgery for laparoscopy carried out by means of satellites networks and optical fibres networks on 7th July 1993. , 0, , .		2
49	Automation in dairy farms: a robotic milking system. , 0, , .		1
50	3D-printing for the precision assessment of a new medical device. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110036.	1.1	1