Antonio Boccaccio

List of Publications by Year in Descending Order

62 papers	895 citations	18 h-index	28 g-index
65 ext. papers	1,089 ext. citations	2.9 avg, IF	4.3 L-index

#	Paper	IF	Citations
62	Mixed Reality in STEM Didactics: Case Study of Assembly Drawings of Complex Machines. *Lecture Notes in Mechanical Engineering*, **2022**, 157-164	0.4	
61	Cinematic Virtual Reality as a Rehabilitative Tool in Subjects Affected by Schizophrenia. *Lecture Notes in Mechanical Engineering*, **2022**, 149-156	0.4	
60	A Coarse-Grained Lattice Spring Model to Characterize Nanoindented Stem Cells. *Lecture Notes in Mechanical Engineering*, **2022**, 623-629	0.4	1
59	Design of a Mixed Reality Application for STEM Distance Education Laboratories. *Computers*, **2022**, 11, 50	1.9	1
58	Sailing Data Visualization in Augmented Reality: Systematic Review, Issues, and Perspectives. *Marine Technology Society Journal*, **2021**, 55, 64-80	0.5	1
57	Augmented reality for maritime navigation data visualisation: a systematic review, issues and perspectives. *Journal of Navigation*, **2021**, 74, 1073-1090	2.3	7
56	Geometry optimization of scaffolds for bone tissue engineering **2021**, 277-301		
55	Coarse-grained elastic network modelling: A fast and stable numerical tool to characterize mesenchymal stem cells subjected to AFM nanoindentation measurements. *Materials Science and Engineering C*, **2021**, 121, 111860	8.3	3
54	Nanoindentation of Mesenchymal Stem Cells using Atomic Force Microscopy: Effect of Adhesive Cell-Substrate Structures. *Nanotechnology*, **2021**,	3.4	2
53	A Body Tracking-Based Low-Cost Solution for Monitoring WorkersU Hygiene Best Practices during Pandemics. *Sensors*, **2020**, 20,	3.8	3
52	Unveiling the technological trends of augmented reality: A patent analysis. *Computers in Industry*, **2020**, 118, 103221	11.6	22
51	Towards Next Generation Technical Documentation in Augmented Reality Using a Context-Aware Information Manager. *Applied Sciences (Switzerland)*, **2020**, 10, 780	2.6	2
50	Mechanobiological Approach to Design and Optimize Bone Tissue Scaffolds 3D Printed with Fused Deposition Modeling: A Feasibility Study. *Materials*, **2020**, 13,	3.5	14
49	Effect of Cell Shape on Nanoindentation Measurements. *Lecture Notes in Mechanical Engineering*, **2020**, 37-44	0.4	1
48	An Algorithm to Optimize the Micro-Geometrical Dimensions of Scaffolds with Spherical Pores. *Materials*, **2020**, 13,	3.5	2
47	AUTOMATIC ERGONOMIC POSTURAL RISK MONITORING ON THE FACTORY SHOPFLOOR -THE ERGOSENTINEL TOOL. *Procedia Manufacturing*, **2020**, 42, 97-103	1.5	17
46	Irregular Load Adapted Scaffold Optimization: A Computational Framework Based on Mechanobiological Criteria. *ACS Biomaterials Science and Engineering*, **2019**, 5, 5392-5411	5.5	10

45	A neural network-based software to recognise blepharospasm symptoms and to measure eye closure time. *Computers in Biology and Medicine*, **2019**, 112, 103376	7	4
44	A User-Centered Framework for Designing Midair Gesture Interfaces. *IEEE Transactions on Human-Machine Systems*, **2019**, 49, 421-429	4.1	6
43	Exploiting Augmented Reality to Enhance Piping and Instrumentation Diagrams for Information Retrieval Tasks in Industry 4.0 Maintenance. *Lecture Notes in Computer Science*, **2019**, 170-180	0.9	5
42	Comparison of the mechanobiological performance of bone tissue scaffolds based on different unit cell geometries. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 83, 28-45	4.1	30
41	Enhancing user engagement through the user centric design of a mid-air gesture-based interface for the navigation of virtual-tours in cultural heritage expositions. *Journal of Cultural Heritage*, **2018**, 32, 186-197	2.9	18
40	Rhombicuboctahedron unit cell based scaffolds for bone regeneration: geometry optimization with a mechanobiology - driven algorithm. *Materials Science and Engineering C*, **2018**, 83, 51-66	8.3	21
39	Recent Advances in Endocrine, Metabolic and Immune Disorders: Mesenchymal Stem Cells (MSCs) and Engineered Scaffolds. *Endocrine, Metabolic and Immune Disorders - Drug Targets*, **2018**, 18, 466-469	2.2	27
38	A Computational Approach to the Design of Scaffolds for Bone Tissue Engineering. *Lecture Notes in Bioengineering*, **2018**, 111-117	0.8	2
37	Optimal Load for Bone Tissue Scaffolds with an Assigned Geometry. *International Journal of Medical Sciences*, **2018**, 15, 16-22	3.7	13
36	Nanoindentation characterisation of human colorectal cancer cells considering cell geometry, surface roughness and hyperelastic constitutive behaviour. *Nanotechnology*, **2017**, 28, 045703	3.4	13
35	TIME-AVERAGE HOLOGRAPHY TO ANALYZE DYNAMIC BEHAVIOR OF SKIN TISSUES UNDER DIFFERENT CONDITIONS. *Journal of Mechanics in Medicine and Biology*, **2017**, 17, 1750020	0.7	
34	Magic Mirror Interface for Augmented Reality Maintenance **2016**,		2
33	Determination of Cardiac Wall Deformations from MRI Images. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 69-83	0.3	
32	A Deeper Look Into Immature Porcine Zona Pellucida Visco-hyperelasticity. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 85-89	0.3	1
31	An Optical System to Monitor the Displacement Field of Glass-fibre Posts Subjected to Thermal Loading. *Open Dentistry Journal*, **2016**, 10, 610-618	0.8	2
30	Geometry Design Optimization of Functionally Graded Scaffolds for Bone Tissue Engineering: A Mechanobiological Approach. *PLoS ONE*, **2016**, 11, e0146935	3.7	62
29	A Mechanobiology-based Algorithm to Optimize the Microstructure Geometry of Bone Tissue Scaffolds. *International Journal of Biological Sciences*, **2016**, 12, 1-17	11.2	58
28	Design of a Projective AR Workbench for Manual Working Stations. *Lecture Notes in Computer Science*, **2016**, 358-367	0.9	9

27	Effect of AFM probe geometry on visco-hyperelastic characterization of soft materials. *Nanotechnology*, **2015**, 26, 325701	3.4	20
26	A novel moiré-based optical scanning head for high-precision contouring. *International Journal of Advanced Manufacturing Technology*, **2015**, 80, 47-63	3.2	5
25	Quantitative Analysis of Defects at the Dentin-Post Space in Endodontically Treated Teeth. *Materials*, **2015**, 8, 3268-3283	3.5	10
24	Roughness Analysis on Composite Materials (Microfilled, Nanofilled and Silorane) After Different Finishing and Polishing Procedures. *Open Dentistry Journal*, **2015**, 9, 357-67	0.8	10
23	A comparison of shear bond strength of ceramic and resin denture teeth on different acrylic resin bases. *Open Dentistry Journal*, **2014**, 8, 241-50	0.8	8
22	A hybrid characterization framework to determine the visco-hyperelastic properties of a porcine zona pellucida. *Interface Focus*, **2014**, 4, 20130066	3.9	29
21	Measurements of Deflection and Residual Stress in Thin Films Utilizing Coherent Light Reflection/Projection Moiré Interferometry. *Experimental Mechanics*, **2013**, 53, 977-987	2.6	3
20	Structural Response of Polyethylene Foam-Based Sandwich Panels Subjected to Edgewise Compression. *Materials*, **2013**, 6, 4545-4564	3.5	14
19	Effect of the residual stress on soft sample nanoindentation. *Applied Physics Letters*, **2013**, 102, 133704	3.4	21
18	Friction forces during sliding of various brackets for malaligned teeth: an in vitro study. *Scientific World Journal, The*, **2013**, 2013, 871423	2.2	8
17	A model of tissue differentiation and bone remodelling in fractured vertebrae treated with minimally invasive percutaneous fixation. *Medical and Biological Engineering and Computing*, **2012**, 50, 947-59	3.1	13
16	Effect of different irrigating solutions and endodontic sealers on bond strength of the dentin-post interface with and without defects. *International Journal of Medical Sciences*, **2012**, 9, 642-54	3.7	18
15	Nanoscale characterization of the biomechanical hardening of bovine zona pellucida. *Journal of the Royal Society Interface*, **2012**, 9, 2871-82	4.1	44
14	A novel design of ventricular assist device: an in vitro feasibility study. *Minimally Invasive Therapy and Allied Technologies*, **2012**, 21, 377-87	2.1	2
13	High Precision Contouring with Moiré and Related Methods: A Review. *Strain*, **2011**, 47, 43-64	1.7	11
12	A mechano-regulation model of fracture repair in vertebral bodies. *Journal of Orthopaedic Research* , **2011**, 29, 433-43	3.8	24
11	**2011**,		1
10	Analysis of the performance of different orthodontic devices for mandibular symphyseal distraction osteogenesis. *European Journal of Orthodontics*, **2011**, 33, 113-20	3.3	10

9	Application of Plasmons to the Determination of Surface Profile and Contact Strain Distribution. *Strain*, **2010**, 46, 307-323	1.7	15
8	EVALUATION AND MINIMIZATION OF GEOMETRIC RECONSTRUCTION ERRORS IN FEM MODELS GENERATED FROM CT-SCAN IMAGES. *Journal of Mechanics in Medicine and Biology*, **2009**, 09, 301-327	0.7	3
7	Numerical/experimental analysis of the stress field around miniscrews for orthodontic anchorage. *European Journal of Orthodontics*, **2009**, 31, 12-20	3.3	52
6	Analysis of the performance of a standardized method for the polishing of methacrylic resins. *Open Dentistry Journal*, **2009**, 3, 233-40	0.8	7
5	EFFECTS OF AGING ON THE LATENCY PERIOD IN MANDIBULAR DISTRACTION OSTEOGENESIS: A COMPUTATIONAL MECHANOBIOLOGICAL ANALYSIS. *Journal of Mechanics in Medicine and Biology*, **2008**, 08, 203-225	0.7	10
4	Tissue differentiation and bone regeneration in an osteotomized mandible: a computational analysis of the latency period. *Medical and Biological Engineering and Computing*, **2008**, 46, 283-98	3.1	55
3	Comparison of different orthodontic devices for mandibular symphyseal distraction osteogenesis: a finite element study. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2008**, 134, 260-9	2.1	26
2	The influence of expansion rates on mandibular distraction osteogenesis: a computational analysis. *Annals of Biomedical Engineering*, **2007**, 35, 1940-60	4.7	40
1	Mechanical behavior of an osteotomized mandible with distraction orthodontic devices. *Journal of Biomechanics*, **2006**, 39, 2907-18	2.9	28