

# Antonio Boccaccio

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Geometry Design Optimization of Functionally Graded Scaffolds for Bone Tissue Engineering: A Mechanobiological Approach. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146935	3.7	62
61	A Mechanobiology-based Algorithm to Optimize the Microstructure Geometry of Bone Tissue Scaffolds. <i>International Journal of Biological Sciences</i> , <b>2016</b> , 12, 1-17	11.2	58
60	Tissue differentiation and bone regeneration in an osteotomized mandible: a computational analysis of the latency period. <i>Medical and Biological Engineering and Computing</i> , <b>2008</b> , 46, 283-98	3.1	55
59	Numerical/experimental analysis of the stress field around miniscrews for orthodontic anchorage. <i>European Journal of Orthodontics</i> , <b>2009</b> , 31, 12-20	3.3	52
58	Nanoscale characterization of the biomechanical hardening of bovine zona pellucida. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 2871-82	4.1	44
57	The influence of expansion rates on mandibular distraction osteogenesis: a computational analysis. <i>Annals of Biomedical Engineering</i> , <b>2007</b> , 35, 1940-60	4.7	40
56	Comparison of the mechanobiological performance of bone tissue scaffolds based on different unit cell geometries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 83, 28-45	4.1	30
55	A hybrid characterization framework to determine the visco-hyperelastic properties of a porcine zona pellucida. <i>Interface Focus</i> , <b>2014</b> , 4, 20130066	3.9	29
54	Mechanical behavior of an osteotomized mandible with distraction orthodontic devices. <i>Journal of Biomechanics</i> , <b>2006</b> , 39, 2907-18	2.9	28
53	Recent Advances in Endocrine, Metabolic and Immune Disorders: Mesenchymal Stem Cells (MSCs) and Engineered Scaffolds. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , <b>2018</b> , 18, 466-469	2.2	27
52	Comparison of different orthodontic devices for mandibular symphyseal distraction osteogenesis: a finite element study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2008</b> , 134, 260-9	2.1	26
51	A mechano-regulation model of fracture repair in vertebral bodies. <i>Journal of Orthopaedic Research</i> , <b>2011</b> , 29, 433-43	3.8	24
50	Unveiling the technological trends of augmented reality: A patent analysis. <i>Computers in Industry</i> , <b>2020</b> , 118, 103221	11.6	22
49	Rhombicuboctahedron unit cell based scaffolds for bone regeneration: geometry optimization with a mechanobiology - driven algorithm. <i>Materials Science and Engineering C</i> , <b>2018</b> , 83, 51-66	8.3	21
48	Effect of the residual stress on soft sample nanoindentation. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 133704	3.4	21
47	Effect of AFM probe geometry on visco-hyperelastic characterization of soft materials. <i>Nanotechnology</i> , <b>2015</b> , 26, 325701	3.4	20
46	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. <i>Journal of Cultural Heritage</i> , <b>2018</b> , 32, 186-197	2.9	18

45	Effect of different irrigating solutions and endodontic sealers on bond strength of the dentin-post interface with and without defects. <i>International Journal of Medical Sciences</i> , <b>2012</b> , 9, 642-54	3.7	18
44	AUTOMATIC ERGONOMIC POSTURAL RISK MONITORING ON THE FACTORY SHOPFLOOR -THE ERGOSENTINEL TOOL. <i>Procedia Manufacturing</i> , <b>2020</b> , 42, 97-103	1.5	17
43	Application of Plasmons to the Determination of Surface Profile and Contact Strain Distribution. <i>Strain</i> , <b>2010</b> , 46, 307-323	1.7	15
42	Mechanobiological Approach to Design and Optimize Bone Tissue Scaffolds 3D Printed with Fused Deposition Modeling: A Feasibility Study. <i>Materials</i> , <b>2020</b> , 13,	3.5	14
41	Structural Response of Polyethylene Foam-Based Sandwich Panels Subjected to Edgewise Compression. <i>Materials</i> , <b>2013</b> , 6, 4545-4564	3.5	14
40	Nanoindentation characterisation of human colorectal cancer cells considering cell geometry, surface roughness and hyperelastic constitutive behaviour. <i>Nanotechnology</i> , <b>2017</b> , 28, 045703	3.4	13
39	A model of tissue differentiation and bone remodelling in fractured vertebrae treated with minimally invasive percutaneous fixation. <i>Medical and Biological Engineering and Computing</i> , <b>2012</b> , 50, 947-59	3.1	13
38	Optimal Load for Bone Tissue Scaffolds with an Assigned Geometry. <i>International Journal of Medical Sciences</i> , <b>2018</b> , 15, 16-22	3.7	13
37	High Precision Contouring with Moiré and Related Methods: A Review. <i>Strain</i> , <b>2011</b> , 47, 43-64	1.7	11
36	Irregular Load Adapted Scaffold Optimization: A Computational Framework Based on Mechanobiological Criteria. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 5392-5411	5.5	10
35	Quantitative Analysis of Defects at the Dentin-Post Space in Endodontically Treated Teeth. <i>Materials</i> , <b>2015</b> , 8, 3268-3283	3.5	10
34	Analysis of the performance of different orthodontic devices for mandibular symphyseal distraction osteogenesis. <i>European Journal of Orthodontics</i> , <b>2011</b> , 33, 113-20	3.3	10
33	EFFECTS OF AGING ON THE LATENCY PERIOD IN MANDIBULAR DISTRACTION OSTEOGENESIS: A COMPUTATIONAL MECHANOBIOLOGICAL ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2008</b> , 08, 203-225	0.7	10
32	Roughness Analysis on Composite Materials (Microfilled, Nanofilled and Silorane) After Different Finishing and Polishing Procedures. <i>Open Dentistry Journal</i> , <b>2015</b> , 9, 357-67	0.8	10
31	Design of a Projective AR Workbench for Manual Working Stations. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 358-367	0.9	9
30	A comparison of shear bond strength of ceramic and resin denture teeth on different acrylic resin bases. <i>Open Dentistry Journal</i> , <b>2014</b> , 8, 241-50	0.8	8
29	Friction forces during sliding of various brackets for malaligned teeth: an in vitro study. <i>Scientific World Journal, The</i> , <b>2013</b> , 2013, 871423	2.2	8
28	Analysis of the performance of a standardized method for the polishing of methacrylic resins. <i>Open Dentistry Journal</i> , <b>2009</b> , 3, 233-40	0.8	7

27	Augmented reality for maritime navigation data visualisation: a systematic review, issues and perspectives. <i>Journal of Navigation</i> , <b>2021</b> , 74, 1073-1090	2.3	7
26	A User-Centered Framework for Designing Midair Gesture Interfaces. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2019</b> , 49, 421-429	4.1	6
25	A novel moiré-based optical scanning head for high-precision contouring. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 80, 47-63	3.2	5
24	Exploiting Augmented Reality to Enhance Piping and Instrumentation Diagrams for Information Retrieval Tasks in Industry 4.0 Maintenance. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 170-180	0.9	5
23	A neural network-based software to recognise blepharospasm symptoms and to measure eye closure time. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 112, 103376	7	4
22	A Body Tracking-Based Low-Cost Solution for Monitoring Workers' Hygiene Best Practices during Pandemics. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
21	Measurements of Deflection and Residual Stress in Thin Films Utilizing Coherent Light Reflection/Projection Moiré Interferometry. <i>Experimental Mechanics</i> , <b>2013</b> , 53, 977-987	2.6	3
20	EVALUATION AND MINIMIZATION OF GEOMETRIC RECONSTRUCTION ERRORS IN FEM MODELS GENERATED FROM CT-SCAN IMAGES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2009</b> , 09, 301-327	0.7	3
19	Coarse-grained elastic network modelling: A fast and stable numerical tool to characterize mesenchymal stem cells subjected to AFM nanoindentation measurements. <i>Materials Science and Engineering C</i> , <b>2021</b> , 121, 111860	8.3	3
18	Towards Next Generation Technical Documentation in Augmented Reality Using a Context-Aware Information Manager. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 780	2.6	2
17	Magic Mirror Interface for Augmented Reality Maintenance <b>2016</b> ,		2
16	A novel design of ventricular assist device: an in vitro feasibility study. <i>Minimally Invasive Therapy and Allied Technologies</i> , <b>2012</b> , 21, 377-87	2.1	2
15	A Computational Approach to the Design of Scaffolds for Bone Tissue Engineering. <i>Lecture Notes in Bioengineering</i> , <b>2018</b> , 111-117	0.8	2
14	An Optical System to Monitor the Displacement Field of Glass-fibre Posts Subjected to Thermal Loading. <i>Open Dentistry Journal</i> , <b>2016</b> , 10, 610-618	0.8	2
13	An Algorithm to Optimize the Micro-Geometrical Dimensions of Scaffolds with Spherical Pores. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
12	Nanoindentation of Mesenchymal Stem Cells using Atomic Force Microscopy: Effect of Adhesive Cell-Substrate Structures. <i>Nanotechnology</i> , <b>2021</b> ,	3.4	2
11	A Deeper Look Into Immature Porcine Zona Pellucida Visco-hyperelasticity. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 85-89	0.3	1
10	<b>2011</b> ,		1

9	A Coarse-Grained Lattice Spring Model to Characterize Nanoindented Stem Cells. <i>Lecture Notes in Mechanical Engineering</i> , <b>2022</b> , 623-629	0.4	1
8	Effect of Cell Shape on Nanoindentation Measurements. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 37-44	0.4	1
7	Sailing Data Visualization in Augmented Reality: Systematic Review, Issues, and Perspectives. <i>Marine Technology Society Journal</i> , <b>2021</b> , 55, 64-80	0.5	1
6	Design of a Mixed Reality Application for STEM Distance Education Laboratories. <i>Computers</i> , <b>2022</b> , 11, 50	1.9	1
5	Determination of Cardiac Wall Deformations from MRI Images. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 69-83	0.3	
4	TIME-AVERAGE HOLOGRAPHY TO ANALYZE DYNAMIC BEHAVIOR OF SKIN TISSUES UNDER DIFFERENT CONDITIONS. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2017</b> , 17, 1750020	0.7	
3	Mixed Reality in STEM Didactics: Case Study of Assembly Drawings of Complex Machines. <i>Lecture Notes in Mechanical Engineering</i> , <b>2022</b> , 157-164	0.4	
2	Cinematic Virtual Reality as a Rehabilitative Tool in Subjects Affected by Schizophrenia. <i>Lecture Notes in Mechanical Engineering</i> , <b>2022</b> , 149-156	0.4	
1	Geometry optimization of scaffolds for bone tissue engineering <b>2021</b> , 277-301		