

# Henrique de Amorim Almeida

## List of Publications by Year in descending order

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73  
papers

831  
citations

623188

14  
h-index

525886

27  
g-index

79  
all docs

79  
docs citations

79  
times ranked

989  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomanufacturing for tissue engineering: Present and future trends. <i>Virtual and Physical Prototyping</i> , 2009, 4, 203-216.	5.3	129
2	Virtual topological optimisation of scaffolds for rapid prototyping. <i>Medical Engineering and Physics</i> , 2010, 32, 775-782.	0.8	81
3	Design of tissue engineering scaffolds based on hyperbolic surfaces: Structural numerical evaluation. <i>Medical Engineering and Physics</i> , 2014, 36, 1033-1040.	0.8	71
4	Rapid prototyping and manufacturing for tissue engineering scaffolds. <i>International Journal of Computer Applications in Technology</i> , 2009, 36, 1.	0.3	60
5	Segmentation Algorithms for Thermal Images. <i>Procedia Technology</i> , 2014, 16, 1560-1569.	1.1	58
6	A study of 4D printing and functionally graded additive manufacturing. <i>Assembly Automation</i> , 2017, 37, 147-153.	1.0	44
7	Additive manufacturing techniques for scaffold-based cartilage tissue engineering. <i>Virtual and Physical Prototyping</i> , 2013, 8, 175-186.	5.3	33
8	Open Source Software for the Automatic Design of Scaffold Structures for Tissue Engineering Applications. <i>Procedia Technology</i> , 2014, 16, 1542-1547.	1.1	26
9	Sustainability in extrusion-based additive manufacturing technologies. <i>Progress in Additive Manufacturing</i> , 2016, 1, 65-78.	2.5	26
10	A review on the use of additive manufacturing to produce lower limb orthoses. <i>Progress in Additive Manufacturing</i> , 2020, 5, 85-94.	2.5	26
11	Using Augmented Reality in Patients with Autism: A Systematic Review. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019, , 454-463.	0.5	26
12	Topological Optimisation of Scaffolds for Tissue Engineering. <i>Procedia Engineering</i> , 2013, 59, 298-306.	1.2	21
13	Advanced Processes to Fabricate Scaffolds for Tissue Engineering. , 2008, , 149-170.		21
14	Numerical simulations of bioextruded polymer scaffolds for tissue engineering applications. <i>Polymer International</i> , 2013, 62, 1544-1552.	1.6	16
15	Production and Characterisation of PCL/ES Scaffolds for Bone Tissue Engineering. <i>Materials Today: Proceedings</i> , 2015, 2, 208-216.	0.9	16
16	Permeability Evaluation of Lay-down Patterns and Pore Size of Pcl Scaffolds. <i>Procedia Engineering</i> , 2013, 59, 255-262.	1.2	14
17	Structural optimisation for medical implants through additive manufacturing. <i>Progress in Additive Manufacturing</i> , 2020, 5, 95-110.	2.5	14
18	Sustainable Impact Evaluation of Support Structures in the Production of Extrusion-Based Parts. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , 7-30.	0.7	12

#	ARTICLE	IF	CITATIONS
19	Computer Simulation and Optimisation of Tissue Engineering Scaffolds: Mechanical and Vascular Behaviour. , 2008, , .		10
20	Additive Manufacturing in Jewellery Design. , 2012, , .		9
21	Structural and Vascular Analysis of Tissue Engineering Scaffolds, Part 2: Topology Optimisation. Methods in Molecular Biology, 2012, 868, 209-236.	0.4	8
22	Structural and Vascular Analysis of Tissue Engineering Scaffolds, Part 1: Numerical Fluid Analysis. Methods in Molecular Biology, 2012, 868, 183-207.	0.4	8
23	Biofabrication of Hydrogel Constructs. Advances in Predictive, Preventive and Personalised Medicine, 2013, , 225-254.	0.6	7
24	Computer modelling and simulation of a bioreactor for tissue engineering. International Journal of Computer Integrated Manufacturing, 2014, 27, 946-959.	2.9	7
25	Additive Manufacturing Systems for Medical Applications: Case Studies. , 2019, , 187-209.		7
26	Industry 4.0 for fashion products â€“ Case studies using 3D technology. IOP Conference Series: Materials Science and Engineering, 2021, 1031, 012039.	0.3	7
27	Optimization of shoe sole design according to individual feet pressure maps. Computers in Industry, 2021, 125, 103375.	5.7	7
28	Biomimetic Boundary-Based Scaffold Design for Tissue Engineering Applications. Methods in Molecular Biology, 2021, 2147, 3-18.	0.4	7
29	BodyShifter â€“ Software to Determine and Optimize an Individual's Somatotype. Procedia Technology, 2014, 16, 1456-1461.	1.1	6
30	Tensile and Shear Stress Evaluation of Schwartz Surfaces for Scaffold Design. Procedia Engineering, 2015, 110, 167-174.	1.2	6
31	Perfusion Bioreactor Fluid Flow Optimization. Procedia Technology, 2014, 16, 1238-1247.	1.1	5
32	Design of scaffolds with computer assistance. WIT Transactions on Biomedicine and Health, 2007, , .	0.0	5
33	Computational technologies in tissue engineering. WIT Transactions on Biomedicine and Health, 2013, , .	0.0	5
34	A Decision Tool for Green Manufacturing While Utilizing Additive Process. , 2012, , .		3
35	Numerical Simulation of Polymeric Extruded Scaffolds Under Compression. Procedia CIRP, 2013, 5, 236-241.	1.0	3
36	Combined Elastic and Shear Stress Solicitations for Topological Optimisation of Micro-CT Based Scaffolds. Procedia Engineering, 2015, 110, 159-166.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Innovative Developments in Virtual and Physical Prototyping. , 0, , .		3
38	Expectations of Additive Manufacturing for the Decade 2020â€“2030. Lecture Notes in Mechanical Engineering, 2020, , 10-19.	0.3	3
39	PCL/Eggshell Scaffolds for Bone Regeneration. , 2014, , .		2
40	Sustainability Based on Biomimetic Design Models. Environmental Footprints and Eco-design of Products and Processes, 2016, , 65-84.	0.7	2
41	Industry 4.0 for Sustainable Production in Footwear Industry. , 2021, , 699-707.		2
42	Evaluating the impact of glass and PET packaging for bottled water. , 2013, , 345-350.		2
43	3D Printing: An Innovative Technology for Customised Shoe Manufacturing. Lecture Notes in Mechanical Engineering, 2020, , 171-180.	0.3	2
44	Anthropometrics and Ergonomics in Pregnant Women. Lecture Notes in Computational Vision and Biomechanics, 2018, , 97-108.	0.5	1
45	Sustainable Water Package: Technical Analysis Versus Consumer Perception. , 2021, , 859-873.		1
46	Mathematical Modeling of 3D Tissue Engineering Constructs. , 2017, , 1-30.		1
47	Integrated strategy for sustainable product development. , 2011, , 807-812.		1
48	Biofabrication of three-dimensional scaffolds of polycaprolactone with eggshell powder for bone regeneration. , 2013, , 171-176.		1
49	The Role of Ultrasound Imaging of Musculotendinous Structures in the Elderly Population. Lecture Notes in Computational Vision and Biomechanics, 2018, , 27-38.	0.5	1
50	Developing lasts with removable toe parts for customized footwear. Communications in Development and Assembling of Textile Products, 2022, 3, 28-41.	0.3	1
51	The Use of Schwartz Geometries for Scaffold Design in Tissue Engineering Applications. , 2010, , .		0
52	CELL MECHANOBIOLOGY DESIGN OF SCAFFOLDS BASED ON HYPERBOLIC SURFACES. Journal of Biomechanics, 2012, 45, S663.	0.9	0
53	Topological Shear Stress Optimisation of Micro-CT Based Scaffolds. , 2014, , .		0
54	Medical devices: from design to production. Advances in Mechanical Engineering, 2017, 9, 168781401772989.	0.8	0

#	ARTICLE	IF	CITATIONS
55	Mathematical Modeling of 3D Tissue Engineering Constructs. , 2018, , 223-252.		0
56	Impact of additive technologies in the health sector for 2030. , 2019, , .		0
57	Current and Future Trends of 3D Food Printing. , 2021, , 258-267.		0
58	The use of periodic minimal surfaces for scaffolds design. , 2009, , .		0
59	External breast radiotherapy treatment planning verification using advanced anthropomorphic phantoms. , 2011, , 355-358.		0
60	In vitro method for test and measure the accuracy of implant impression. , 2011, , 343-346.		0
61	Comparison of bone remodeling algorithms for hip implants. , 2011, , 725-729.		0
62	Evaluation of different fitting algorithms using CMM and white fringe projection systems. , 2011, , 263-271.		0
63	Rapid construction with functionally graded designs. , 2013, , 545-550.		0
64	Nano CAD design of scaffolds based on triple periodic surfaces. , 2013, , 497-502.		0
65	Overview on additive manufacturing techniques for scaffold-based cartilage tissue engineering. , 2013, , 127-136.		0
66	Micro-CT based topological optimisation scheme for the design of scaffolds. , 2013, , 577-582.		0
67	Numerical Calculations in Tissue Engineering. , 2014, , .		0
68	Relationship between implant primary stability (torque and ISQ) and bone density assessed by CBCTâ€™clinical trial. , 2014, , 141-146.		0
69	Fracture resistance of single-tooth implant-supported. , 2014, , 147-152.		0
70	Permeability Evaluation of Flow Behaviors Within Perfusion Bioreactors. Mechanisms and Machine Science, 2015, , 761-768.	0.3	0
71	Layer Thickness Evaluation Between Medical Imaging and Additive Manufacturing. Lecture Notes in Computational Vision and Biomechanics, 2019, , 693-701.	0.5	0
72	AM Tooling for the Mouldmaking Industry. Lecture Notes in Mechanical Engineering, 2020, , 162-170.	0.3	0

#	ARTICLE	IF	CITATIONS
73	Additive Technologies in the Medical Field for 2030. Lecture Notes in Mechanical Engineering, 2020, , 20-27.	0.3	0