

# Vitor M Correlo

## 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.

91  
papers

3,504  
citations

38  
h-index

57  
g-index

101  
ext. papers

4,085  
ext. citations

6.7  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
91	Cork: properties, capabilities and applications. <i>International Materials Reviews</i> , <b>2005</b> , 50, 345-365	16.1	392
90	Properties of melt processed chitosan and aliphatic polyester blends. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 403, 57-68	5.3	197
89	Organ-on-chip models of cancer metastasis for future personalized medicine: From chip to the patient. <i>Biomaterials</i> , <b>2017</b> , 149, 98-115	15.6	112
88	Osteogenic differentiation of human bone marrow mesenchymal stem cells seeded on melt based chitosan scaffolds for bone tissue engineering applications. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2067-73	6.9	109
87	Chitosan/polyester-based scaffolds for cartilage tissue engineering: assessment of extracellular matrix formation. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 1149-57	10.8	107
86	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. <i>Pharmacology &amp; Therapeutics</i> , <b>2018</b> , 184, 201-211	13.9	90
85	Nanoparticulate bioactive-glass-reinforced gellan-gum hydrogels for bone-tissue engineering. <i>Materials Science and Engineering C</i> , <b>2014</b> , 43, 27-36	8.3	89
84	Water absorption and degradation characteristics of chitosan-based polyesters and hydroxyapatite composites. <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 354-63	5.5	86
83	Melt-based compression-molded scaffolds from chitosan-polyester blends and composites: Morphology and mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 489-504	5.4	80
82	Evaluating Biomaterial- and Microfluidic-Based 3D Tumor Models. <i>Trends in Biotechnology</i> , <b>2015</b> , 33, 667-678	15.7	77
81	Polyhydroxybutyrate-co-hydroxyvalerate structures loaded with adipose stem cells promote skin healing with reduced scarring. <i>Acta Biomaterialia</i> , <b>2015</b> , 17, 170-81	10.8	74
80	In vitro degradation and in vivo biocompatibility of chitosan/poly(butylene succinate) fiber mesh scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2014</b> , 29, 137-151	2	72
79	Could 3D models of cancer enhance drug screening?. <i>Biomaterials</i> , <b>2020</b> , 232, 119744	15.6	72
78	Gellan gum-hyaluronic acid spongy-like hydrogels and cells from adipose tissue synergize promoting neoskin vascularization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19668-79	9.5	69
77	Novel cork/polymer composites reinforced with short natural coconut fibres: Effect of fibre loading and coupling agent addition. <i>Composites Science and Technology</i> , <b>2013</b> , 78, 56-62	8.6	69
76	Chondrogenic differentiation of human bone marrow mesenchymal stem cells in chitosan-based scaffolds using a flow-perfusion bioreactor. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2011</b> , 5, 722-32	4.4	67
75	Engineering cell-adhesive gellan gum spongy-like hydrogels for regenerative medicine purposes. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4787-4797	10.8	64

74	Adhesion, Proliferation, and Osteogenic Differentiation of a Mouse Mesenchymal Stem Cell Line (BMC9) Seeded on Novel Melt-Based Chitosan/Polyester 3D Porous Scaffolds. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1049-1057	3.9	64
73	Skin-Integrated Wearable Systems and Implantable Biosensors: A Comprehensive Review. <i>Biosensors</i> , <b>2020</b> , 10,	5.9	60
72	Chitosan-poly(butylene succinate) scaffolds and human bone marrow stromal cells induce bone repair in a mouse calvaria model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6, 21-8	4.4	58
71	Hydrogel-Based Strategies to Advance Therapies for Chronic Skin Wounds. <i>Annual Review of Biomedical Engineering</i> , <b>2019</b> , 21, 145-169	12	57
70	Hydroxyapatite Reinforced Chitosan and Polyester Blends for Biomedical Applications. <i>Macromolecular Materials and Engineering</i> , <b>2005</b> , 290, 1157-1165	3.9	57
69	New biotextiles for tissue engineering: development, characterization and in vitro cellular viability. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8167-81	10.8	55
68	Cork based composites using polyolefin as matrix: Morphology and mechanical performance. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 2310-2318	8.6	54
67	3D biosensors in advanced medical diagnostics of high mortality diseases. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 130, 20-39	11.8	54
66	Migration of "bioabsorbable" screws in ACL repair. How much do we know? A systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2013</b> , 21, 986-94	5.5	51
65	Melanin nanoparticles as a promising tool for biomedical applications a review. <i>Acta Biomaterialia</i> , <b>2020</b> , 105, 26-43	10.8	50
64	Neovascularization Induced by the Hyaluronic Acid-Based Spongy-Like Hydrogels Degradation Products. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33464-33474	9.5	47
63	Electric Phenomenon: A Disregarded Tool in Tissue Engineering and Regenerative Medicine. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 24-49	15.1	47
62	Properties of new cork polymer composites: Advantages and drawbacks as compared with commercially available fibreboard materials. <i>Composite Structures</i> , <b>2011</b> , 93, 3120-3120	5.3	46
61	Assessment of the suitability of chitosan/polybutylene succinate scaffolds seeded with mouse mesenchymal progenitor cells for a cartilage tissue engineering approach. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1651-61	3.9	45
60	Development and characterization of a PHB-HV-based 3D scaffold for a tissue engineering and cell-therapy combinatorial approach for spinal cord injury regeneration. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1576-92	5.5	42
59	Osteogenic differentiation of two distinct subpopulations of human adipose-derived stem cells: an in vitro and in vivo study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6, 1-11	4.4	42
58	Stem Cell-Containing Hyaluronic Acid-Based Spongy Hydrogels for Integrated Diabetic Wound Healing. <i>Journal of Investigative Dermatology</i> , <b>2017</b> , 137, 1541-1551	4.3	40
57	Cork polymer biocomposites: Mechanical, structural and thermal properties. <i>Materials and Design</i> , <b>2015</b> , 82, 282-289	8.1	40

56	Gellan gum-hydroxyapatite composite spongy-like hydrogels for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 479-490	5.4	39
55	Custom-tailored tissue engineered polycaprolactone scaffolds for total disc replacement. <i>Biofabrication</i> , <b>2015</b> , 7, 015008	10.5	39
54	Biodegradable nanofibers-reinforced microfibrinous composite scaffolds for bone tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 3599-609	3.9	39
53	Polypropylene-based cork/polymer composites: Processing parameters and properties. <i>Composites Part B: Engineering</i> , <b>2014</b> , 66, 210-223	10	37
52	Mechanical Property of Hydrogels and the Presence of Adipose Stem Cells in Tumor Stroma Affect Spheroid Formation in the 3D Osteosarcoma Model. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14548-14559	9.5	34
51	Human skin cell fractions fail to self-organize within a gellan gum/hyaluronic acid matrix but positively influence early wound healing. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 1369-78	3.9	33
50	Conditioned medium as a strategy for human stem cells chondrogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 714-23	4.4	30
49	Anti-Cancer Drug Validation: the Contribution of Tissue Engineered Models. <i>Stem Cell Reviews and Reports</i> , <b>2017</b> , 13, 347-363	6.4	27
48	Development of an injectable PHBV microparticles-GG hydrogel hybrid system for regenerative medicine. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 478, 398-408	6.5	26
47	Micro/nano replication and 3D assembling techniques for scaffold fabrication. <i>Materials Science and Engineering C</i> , <b>2014</b> , 42, 615-21	8.3	25
46	Gellan Gum Hydrogels with Enzyme-Sensitive Biodegradation and Endothelial Cell Biorecognition Sites. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1700686	10.1	24
45	Human serum is a suitable supplement for the osteogenic differentiation of human adipose-derived stem cells seeded on poly-3-hydroxybutyrate-co-3-hydroxyvalerate scaffolds. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 277-89	3.9	24
44	Novel melt-processable chitosan-polybutylene succinate fibre scaffolds for cartilage tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2011</b> , 22, 773-88	3.5	24
43	Synthesis and Characterization of Electroactive Gellan Gum Spongy-Like Hydrogels for Skeletal Muscle Tissue Engineering Applications. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 968-979	3.9	22
42	Simple and facile preparation of recombinant human bone morphogenetic protein-2 immobilized titanium implant via initiated chemical vapor deposition technique to promote osteogenesis for bone tissue engineering application. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 949-958	8.3	21
41	Bioceramics for Osteochondral Tissue Engineering and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1058, 53-75	3.6	21
40	Poly(hydroxybutyrate-co-hydroxyvalerate) bilayer skin tissue engineering constructs with improved epidermal rearrangement. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 977-90	5.5	20
39	Development of label-free plasmonic Au-TiO thin film immunosensor devices. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 424-432	8.3	19

38	Electroactive Gellan Gum/Polyaniline Spongy-Like Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 1779-1787	5.5	17
37	Lactoferrin-Hydroxyapatite Containing Spongy-Like Hydrogels for Bone Tissue Engineering. <i>Materials</i> , <b>2019</b> , 12,	3.5	17
36	Melt processing of chitosan-based fibers and fiber-mesh scaffolds for the engineering of connective tissues. <i>Macromolecular Bioscience</i> , <b>2010</b> , 10, 1495-504	5.5	17
35	Bottom-up approach to construct microfabricated multi-layer scaffolds for bone tissue engineering. <i>Biomedical Microdevices</i> , <b>2014</b> , 16, 69-78	3.7	16
34	Cork: properties, capabilities and applications. <i>International Materials Reviews</i> , <b>2008</b> , 53, 256-256	16.1	15
33	Silk fibroin promotes mineralization of gellan gum hydrogels. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 153, 1328-1334	7.9	15
32	Natural based eumelanin nanoparticles functionalization and preliminary evaluation as carrier for gentamicin. <i>Reactive and Functional Polymers</i> , <b>2017</b> , 114, 38-48	4.6	13
31	Redox activity of melanin from the ink sac of <i>Sepia officinalis</i> by means of colorimetric oxidative assay. <i>Natural Product Research</i> , <b>2016</b> , 30, 982-6	2.3	12
30	Eumelanin-releasing spongy-like hydrogels for skin re-epithelialization purposes. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 12, 025010	3.5	12
29	Differentiation of osteoclast precursors on gellan gum-based spongy-like hydrogels for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2018</b> , 13, 035012	3.5	12
28	Adhesion, proliferation, and osteogenic differentiation of a mouse mesenchymal stem cell line (BMC9) seeded on novel melt-based chitosan/polyester 3D porous scaffolds. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1049-57	3.9	12
27	Osteogenic properties of starch poly( $\epsilon$ -aprolactone) (SPCL) fiber meshes loaded with osteoblast-like cells in a rat critical-sized cranial defect. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3059-65	5.4	9
26	Recent approaches towards bone tissue engineering. <i>Bone</i> , <b>2022</b> , 154, 116256	4.7	8
25	The Crosstalk between Tissue Engineering and Pharmaceutical Biotechnology: Recent Advances and Future Directions. <i>Current Pharmaceutical Biotechnology</i> , <b>2015</b> , 16, 1012-23	2.6	8
24	Effect of Melanomal Proteins on <i>Sepia</i> Melanin Assembly. <i>Journal of Macromolecular Science - Physics</i> , <b>2015</b> , 54, 1532-1540	1.4	7
23	Influence of scaffold composition over in vitro osteogenic differentiation of hBMSCs and in vivo inflammatory response. <i>Journal of Biomaterials Applications</i> , <b>2014</b> , 28, 1430-42	2.9	7
22	Eumelanin Nanoparticle-Incorporated Polyvinyl Alcohol Nanofibrous Composite as an Electroconductive Scaffold for Skeletal Muscle Tissue Engineering.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1893-1905	4.1	7
21	Epidermis recreation in spongy-like hydrogels. <i>Materials Today</i> , <b>2015</b> , 18, 468-469	21.8	5

20	Clinical Trials and Management of Osteochondral Lesions. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1058, 391-413	3.6	5
19	Natural Origin Materials for Bone Tissue Engineering: Properties, Processing, and Performance <b>2019</b> , 535-558		5
18	Improved vascularisation but inefficient in vivo bone regeneration of adipose stem cells and poly-3-hydroxybutyrate-co-3-hydroxyvalerate scaffolds in xeno-free conditions. <i>Materials Science and Engineering C</i> , <b>2020</b> , 107, 110301	8.3	5
17	Micropatterned Silk-Fibroin/Eumelanin Composite Films for Bioelectronic Applications. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 2466-2474	5.5	5
16	Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. <i>Advanced Biology</i> , <b>2021</b> , 5, e2101019		4
15	An Outlook on Implantable Biosensors for Personalized Medicine. <i>Engineering</i> , <b>2021</b> , 7, 1696-1696	9.7	4
14	Tumor-Stroma Interactions Alter the Sensitivity of Drug in Breast Cancer. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	3
13	Micropatterned gellan gum-based hydrogels tailored with laminin-derived peptides for skeletal muscle tissue engineering. <i>Biomaterials</i> , <b>2021</b> , 279, 121217	15.6	3
12	Electro-responsive controlled drug delivery from melanin nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 588, 119773	6.5	3
11	Natural Fibres as Reinforcement Strategy on Cork-Polymer Composites. <i>Materials Science Forum</i> , <b>2012</b> , 730-732, 373-378	0.4	2
10	Gene expression changes are associated with severe bone loss and deficient fracture callus formation in rats with complete spinal cord injury. <i>Spinal Cord</i> , <b>2020</b> , 58, 365-376	2.7	2
9	A SERS-based 3D nanobiosensor: towards cell metabolite monitoring. <i>Materials Advances</i> , <b>2020</b> , 1, 1613-1621	3.621	2
8	adipoSIGHT in Therapeutic Response: Consequences in Osteosarcoma Treatment. <i>Bioengineering</i> , <b>2021</b> , 8,	5.3	2
7	Electroactive polyamide/cotton fabrics for biomedical applications. <i>Organic Electronics</i> , <b>2020</b> , 77, 105401	3.5	2
6	Influence of gellan gum-hydroxyapatite spongy-like hydrogels on human osteoblasts under long-term osteogenic differentiation conditions. <i>Materials Science and Engineering C</i> , <b>2021</b> , 129, 112413	8.3	2
5	Recent Developments on Chitosan Applications in Regenerative Medicine <b>2016</b> , 221-243		1
4	Current nanotechnology advances in diagnostic biosensors. <i>Medical Devices &amp; Sensors</i> , <b>2021</b> , 4, e10156	1.6	1
3	Processing of Biomedical Devices for Tissue Engineering and Regenerative Medicine Applications <b>2016</b> , 475-493		

- 2      Microfluidic Devices and Three Dimensional-Printing Strategies for in vitro Models of Bone.  
*Advances in Experimental Medicine and Biology*, **2020**, 1230, 1-14      3.6
- 1      Forecast cancer: the importance of biomimetic 3D in vitro models in cancer drug testing/discovery  
and therapy. *In Vitro Models*,1