Vitor M Correlo

List of Publications by Year in Descending Order

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	Recent approaches towards bone tissue engineering. *Bone*, **2022**, 154, 116256	4.7	8
90	Micropatterned gellan gum-based hydrogels tailored with laminin-derived peptides for skeletal muscle tissue engineering. *Biomaterials*, **2021**, 279, 121217	15.6	3
89	Micropatterned Silk-Fibroin/Eumelanin Composite Films for Bioelectronic Applications. *ACS Biomaterials Science and Engineering*, **2021**, 7, 2466-2474	5.5	5
88	adipoSIGHT in Therapeutic Response: Consequences in Osteosarcoma Treatment. *Bioengineering*, **2021**, 8,	5.3	2
87	Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. *Advanced Biology*, **2021**, 5, e2101019		4
86	Current nanotechnology advances in diagnostic biosensors. *Medical Devices & Sensors*, **2021**, 4, e10156	1.6	1
85	An Outlook on Implantable Biosensors for Personalized Medicine. *Engineering*, **2021**, 7, 1696-1696	9.7	4
84	Influence of gellan gum-hydroxyapatite spongy-like hydrogels on human osteoblasts under long-term osteogenic differentiation conditions. *Materials Science and Engineering C*, **2021**, 129, 112413	8.3	2
83	Tumor-Stroma Interactions Alter the Sensitivity of Drug in Breast Cancer. *Frontiers in Materials*, **2020**, 7,	4	3
82	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	
81	Improved vascularisation but inefficient in vivo bone regeneration of adipose stem cells and poly-3-hydroxybutyrate-co-3-hydroxyvalerate scaffolds in xeno-free conditions. *Materials Science and Engineering C*, **2020**, 107, 110301	8.3	5
80	Gene expression changes are associated with severe bone loss and deficient fracture callus formation in rats with complete spinal cord injury. *Spinal Cord*, **2020**, 58, 365-376	2.7	2
79	Could 3D models of cancer enhance drug screening?. *Biomaterials*, **2020**, 232, 119744	15.6	72
78	Silk fibroin promotes mineralization of gellan gum hydrogels. *International Journal of Biological Macromolecules*, **2020**, 153, 1328-1334	7.9	15
77	Melanin nanoparticles as a promising tool for biomedical applications□ a review. *Acta Biomaterialia*, **2020**, 105, 26-43	10.8	50
76	Skin-Integrated Wearable Systems and Implantable Biosensors: A Comprehensive Review. *Biosensors*, **2020**, 10,	5.9	60
75	A SERS-based 3D nanobiosensor: towards cell metabolite monitoring. *Materials Advances*, **2020**, 1, 1613-1621	3.9	2

74	Electro-responsive controlled drug delivery from melanin nanoparticles. *International Journal of Pharmaceutics*, **2020**, 588, 119773	6.5	3
73	Electroactive polyamide/cotton fabrics for biomedical applications. *Organic Electronics*, **2020**, 77, 105401	3.5	2
72	Electric Phenomenon: A Disregarded Tool in Tissue Engineering and Regenerative Medicine. *Trends in Biotechnology*, **2020**, 38, 24-49	15.1	47
71	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. *Materials Science and Engineering C*, **2019**, 100, 949-958	8.3	21
70	Hydrogel-Based Strategies to Advance Therapies for Chronic Skin Wounds. *Annual Review of Biomedical Engineering*, **2019**, 21, 145-169	12	57
69	Development of label-free plasmonic Au-TiO thin film immunosensor devices. *Materials Science and Engineering C*, **2019**, 100, 424-432	8.3	19
68	Mechanical Property of Hydrogels and the Presence of Adipose Stem Cells in Tumor Stroma Affect Spheroid Formation in the 3D Osteosarcoma Model. *ACS Applied Materials & Interfaces*, **2019**, 11, 14548-14559	9.5	34
67	Natural Origin Materials for Bone Tissue Engineering: Properties, Processing, and Performance **2019**, 535-558		5
66	Lactoferrin-Hydroxyapatite Containing Spongy-Like Hydrogels for Bone Tissue Engineering. *Materials*, **2019**, 12,	3.5	17
65	3D biosensors in advanced medical diagnostics of high mortality diseases. *Biosensors and Bioelectronics*, **2019**, 130, 20-39	11.8	54
64	Bioceramics for Osteochondral Tissue Engineering and Regeneration. *Advances in Experimental Medicine and Biology*, **2018**, 1058, 53-75	3.6	21
63	Electroactive Gellan Gum/Polyaniline Spongy-Like Hydrogels. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1779-1787	5.5	17
62	Differentiation of osteoclast precursors on gellan gum-based spongy-like hydrogels for bone tissue engineering. *Biomedical Materials (Bristol)*, **2018**, 13, 035012	3.5	12
61	Gellan Gum Hydrogels with Enzyme-Sensitive Biodegradation and Endothelial Cell Biorecognition Sites. *Advanced Healthcare Materials*, **2018**, 7, 1700686	10.1	24
60	Clinical Trials and Management of Osteochondral Lesions. *Advances in Experimental Medicine and Biology*, **2018**, 1058, 391-413	3.6	5
59	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. *Pharmacology & Therapeutics*, **2018**, 184, 201-211	13.9	90
58	Gellan gum-hydroxyapatite composite spongy-like hydrogels for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 479-490	5.4	39
57	Eumelanin Nanoparticle-Incorporated Polyvinyl Alcohol Nanofibrous Composite as an Electroconductive Scaffold for Skeletal Muscle Tissue Engineering.. *ACS Applied Bio Materials*, **2018**, 1, 1893-1905	4.1	7

56	Natural based eumelanin nanoparticles functionalization and preliminary evaluation as carrier for gentamicin. *Reactive and Functional Polymers*, **2017**, 114, 38-48	4.6	13
55	Anti-Cancer Drug Validation: the Contribution of Tissue Engineered Models. *Stem Cell Reviews and Reports*, **2017**, 13, 347-363	6.4	27
54	Synthesis and Characterization of Electroactive Gellan Gum Spongy-Like Hydrogels for Skeletal Muscle Tissue Engineering Applications. *Tissue Engineering - Part A*, **2017**, 23, 968-979	3.9	22
53	Stem Cell-Containing Hyaluronic Acid-Based Spongy Hydrogels for Integrated Diabetic Wound Healing. *Journal of Investigative Dermatology*, **2017**, 137, 1541-1551	4.3	40
52	Eumelanin-releasing spongy-like hydrogels for skin re-epithelialization purposes. *Biomedical Materials (Bristol)*, **2017**, 12, 025010	3.5	12
51	Organ-on-chip models of cancer metastasis for future personalized medicine: From chip to the patient. *Biomaterials*, **2017**, 149, 98-115	15.6	112
50	Redox activity of melanin from the ink sac of Sepia officinalis by means of colorimetric oxidative assay. *Natural Product Research*, **2016**, 30, 982-6	2.3	12
49	Recent Developments on Chitosan Applications in Regenerative Medicine **2016**, 221-243		1
48	Neovascularization Induced by the Hyaluronic Acid-Based Spongy-Like Hydrogels Degradation Products. *ACS Applied Materials & Interfaces*, **2016**, 8, 33464-33474	9.5	47
47	Processing of Biomedical Devices for Tissue Engineering and Regenerative Medicine Applications **2016**, 475-493		
46	Epidermis recreation in spongy-like hydrogels. *Materials Today*, **2015**, 18, 468-469	21.8	5
45	Evaluating Biomaterial- and Microfluidic-Based 3D Tumor Models. *Trends in Biotechnology*, **2015**, 33, 667-678	15.8	77
44	Effect of Melanomal Proteins on Sepia Melanin Assembly. *Journal of Macromolecular Science - Physics*, **2015**, 54, 1532-1540	1.4	7
43	Development of an injectable PHBV microparticles-GG hydrogel hybrid system for regenerative medicine. *International Journal of Pharmaceutics*, **2015**, 478, 398-408	6.5	26
42	Conditioned medium as a strategy for human stem cells chondrogenic differentiation. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 714-23	4.4	30
41	Cork□polymer biocomposites: Mechanical, structural and thermal properties. *Materials and Design*, **2015**, 82, 282-289	8.1	40
40	Polyhydroxybutyrate-co-hydroxyvalerate structures loaded with adipose stem cells promote skin healing with reduced scarring. *Acta Biomaterialia*, **2015**, 17, 170-81	10.8	74
39	Custom-tailored tissue engineered polycaprolactone scaffolds for total disc replacement. *Biofabrication*, **2015**, 7, 015008	10.5	39

38	The Crosstalk between Tissue Engineering and Pharmaceutical Biotechnology: Recent Advances and Future Directions. *Current Pharmaceutical Biotechnology*, **2015**, 16, 1012-23	2.6	8
37	Bottom-up approach to construct microfabricated multi-layer scaffolds for bone tissue engineering. *Biomedical Microdevices*, **2014**, 16, 69-78	3.7	16
36	Gellan gum-hyaluronic acid spongy-like hydrogels and cells from adipose tissue synergize promoting neoskin vascularization. *ACS Applied Materials & Interfaces*, **2014**, 6, 19668-79	9.5	69
35	Engineering cell-adhesive gellan gum spongy-like hydrogels for regenerative medicine purposes. *Acta Biomaterialia*, **2014**, 10, 4787-4797	10.8	64
34	Nanoparticulate bioactive-glass-reinforced gellan-gum hydrogels for bone-tissue engineering. *Materials Science and Engineering C*, **2014**, 43, 27-36	8.3	89
33	In vitro degradation and in vivo biocompatibility of chitosan–poly(butylene succinate) fiber mesh scaffolds. *Journal of Bioactive and Compatible Polymers*, **2014**, 29, 137-151	2	72
32	Influence of scaffold composition over in vitro osteogenic differentiation of hBMSCs and in vivo inflammatory response. *Journal of Biomaterials Applications*, **2014**, 28, 1430-42	2.9	7
31	Human skin cell fractions fail to self-organize within a gellan gum/hyaluronic acid matrix but positively influence early wound healing. *Tissue Engineering - Part A*, **2014**, 20, 1369-78	3.9	33
30	Micro/nano replication and 3D assembling techniques for scaffold fabrication. *Materials Science and Engineering C*, **2014**, 42, 615-21	8.3	25
29	Polypropylene-based cork–polymer composites: Processing parameters and properties. *Composites Part B: Engineering*, **2014**, 66, 210-223	10	37
28	Poly(hydroxybutyrate-co-hydroxyvalerate) bilayer skin tissue engineering constructs with improved epidermal rearrangement. *Macromolecular Bioscience*, **2014**, 14, 977-90	5.5	20
27	Novel cork–polymer composites reinforced with short natural coconut fibres: Effect of fibre loading and coupling agent addition. *Composites Science and Technology*, **2013**, 78, 56-62	8.6	69
26	Migration of "bioabsorbable" screws in ACL repair. How much do we know? A systematic review. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2013**, 21, 986-94	5.5	51
25	Osteogenic properties of starch poly(ε-caprolactone) (SPCL) fiber meshes loaded with osteoblast-like cells in a rat critical-sized cranial defect. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3059-65	5.4	9
24	Development and characterization of a PHB-HV-based 3D scaffold for a tissue engineering and cell-therapy combinatorial approach for spinal cord injury regeneration. *Macromolecular Bioscience*, **2013**, 13, 1576-92	5.5	42
23	Human serum is a suitable supplement for the osteogenic differentiation of human adipose-derived stem cells seeded on poly-3-hydroxibutyrate-co-3-hydroxyvalerate scaffolds. *Tissue Engineering - Part A*, **2013**, 19, 277-89	3.9	24
22	New biotextiles for tissue engineering: development, characterization and in vitro cellular viability. *Acta Biomaterialia*, **2013**, 9, 8167-81	10.8	55
21	Osteogenic differentiation of two distinct subpopulations of human adipose-derived stem cells: an in vitro and in vivo study. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 1-11	4.4	42

20	Chitosan-poly(butylene succinate) scaffolds and human bone marrow stromal cells induce bone repair in a mouse calvaria model. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 21-8	4.4	58
19	Natural Fibres as Reinforcement Strategy on Cork-Polymer Composites. *Materials Science Forum*, **2012**, 730-732, 373-378	0.4	2
18	Novel melt-processable chitosan-polybutylene succinate fibre scaffolds for cartilage tissue engineering. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 773-88	3.5	24
17	Properties of new cork–polymer composites: Advantages and drawbacks as compared with commercially available fibreboard materials. *Composite Structures*, **2011**, 93, 3120-3120	5.3	46
16	Chondrogenic differentiation of human bone marrow mesenchymal stem cells in chitosan-based scaffolds using a flow-perfusion bioreactor. *Journal of Tissue Engineering and Regenerative Medicine* , **2011**, 5, 722-32	4.4	67
15	Biodegradable nanofibers-reinforced microfibrous composite scaffolds for bone tissue engineering. *Tissue Engineering - Part A*, **2010**, 16, 3599-609	3.9	39
14	Cork based composites using polyolefins as matrix: Morphology and mechanical performance. *Composites Science and Technology*, **2010**, 70, 2310-2318	8.6	54
13	Melt processing of chitosan-based fibers and fiber-mesh scaffolds for the engineering of connective tissues. *Macromolecular Bioscience*, **2010**, 10, 1495-504	5.5	17
12	Chitosan/polyester-based scaffolds for cartilage tissue engineering: assessment of extracellular matrix formation. *Acta Biomaterialia*, **2010**, 6, 1149-57	10.8	107
11	Melt-based compression-molded scaffolds from chitosan-polyester blends and composites: Morphology and mechanical properties. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 489-504	5.4	80
10	Osteogenic differentiation of human bone marrow mesenchymal stem cells seeded on melt based chitosan scaffolds for bone tissue engineering applications. *Biomacromolecules*, **2009**, 10, 2067-73	6.9	109
9	Assessment of the suitability of chitosan/polybutylene succinate scaffolds seeded with mouse mesenchymal progenitor cells for a cartilage tissue engineering approach. *Tissue Engineering - Part A*, **2008**, 14, 1651-61	3.9	45
8	Cork: properties, capabilities and applications. *International Materials Reviews*, **2008**, 53, 256-256	16.1	15
7	Adhesion, Proliferation, and Osteogenic Differentiation of a Mouse Mesenchymal Stem Cell Line (BMC9) Seeded on Novel Melt-Based Chitosan/Polyester 3D Porous Scaffolds. *Tissue Engineering - Part A*, **2008**, 14, 1049-1057	3.9	64
6	Adhesion, proliferation, and osteogenic differentiation of a mouse mesenchymal stem cell line (BMC9) seeded on novel melt-based chitosan/polyester 3D porous scaffolds. *Tissue Engineering - Part A*, **2008**, 14, 1049-57	3.9	12
5	Water absorption and degradation characteristics of chitosan-based polyesters and hydroxyapatite composites. *Macromolecular Bioscience*, **2007**, 7, 354-63	5.5	86
4	Cork: properties, capabilities and applications. *International Materials Reviews*, **2005**, 50, 345-365	16.1	392
3	Properties of melt processed chitosan and aliphatic polyester blends. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 403, 57-68	5.3	197

2	Hydroxyapatite Reinforced Chitosan and Polyester Blends for Biomedical Applications. *Macromolecular Materials and Engineering*, **2005**, 290, 1157-1165	3.9	57
1	Forecast cancer: the importance of biomimetic 3D in vitro models in cancer drug testing/discovery and therapy. *In Vitro Models*,1		