

Carlos Mota

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,986
citations

186265

28
h-index

168389

53
g-index

79
all docs

79
docs citations

79
times ranked

3903
citing authors

#	ARTICLE	IF	CITATIONS
1	3D culture platform of human iPSCs-derived nociceptors for peripheral nerve modeling and tissue innervation. <i>Biofabrication</i> , 2022, 14, 014105.	7.1	12
2	Development of a device useful to reproducibly produce large quantities of viable and uniform stem cell spheroids with controlled diameters. <i>Materials Science and Engineering C</i> , 2022, 135, 112685.	7.3	8
3	Static systems to obtain 3D spheroid cell models: a cost analysis comparing the implementation of four types of microwell array inserts. <i>Biochemical Engineering Journal</i> , 2022, 182, 108414.	3.6	2
4	Cholecalciferol as Bioactive Plasticizer of High Molecular Weight Poly(D,L-Lactic Acid) Scaffolds for Bone Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 335-350.	2.1	3
5	Regenerative therapies for tympanic membrane. <i>Progress in Materials Science</i> , 2022, 127, 100942.	32.8	11
6	Effect of high content nanohydroxyapatite composite scaffolds prepared via melt extrusion additive manufacturing on the osteogenic differentiation of human mesenchymal stromal cells. , 2022, 137, 212833.		8
7	Photo-enzymatic dityrosine crosslinking for bioprinting. <i>Polymer</i> , 2022, , 124941.	3.8	3
8	Fabrication of a mimetic vascular graft using melt spinning with tailorable fiber parameters. , 2022, 139, 212972.		7
9	Development of an In Vitro Biomimetic Peripheral Neurovascular Platform. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31567-31585.	8.0	4
10	Controllable four axis extrusion-based additive manufacturing system for the fabrication of tubular scaffolds with tailorable mechanical properties. <i>Materials Science and Engineering C</i> , 2021, 119, 111472.	7.3	21
11	3D additive manufactured composite scaffolds with antibiotic-loaded lamellar fillers for bone infection prevention and tissue regeneration. <i>Bioactive Materials</i> , 2021, 6, 1073-1082.	15.6	40
12	Tuning Cell Behavior on 3D Scaffolds Fabricated by Atmospheric Plasma-Assisted Additive Manufacturing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3631-3644.	8.0	24
13	Effect of the reduced graphene oxide (rGO) compaction degree and concentration on rGO-polymer composite printability and cell interactions. <i>Nanoscale</i> , 2021, 13, 14382-14398.	5.6	3
14	A hybrid additive manufacturing platform to create bulk and surface composition gradients on scaffolds for tissue regeneration. <i>Nature Communications</i> , 2021, 12, 500.	12.8	35
15	Cell spheroids as a versatile research platform: formation mechanisms, high throughput production, characterization and applications. <i>Biofabrication</i> , 2021, 13, 032002.	7.1	52
16	Bioprinting Via a Dual-Gel Bioink Based on Poly(Vinyl Alcohol) and Solubilized Extracellular Matrix towards Cartilage Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3901.	4.1	27
17	Mimicking the Human Tympanic Membrane: The Significance of Scaffold Geometry. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002082.	7.6	12
18	Size Effects in Finite Element Modelling of 3D Printed Bone Scaffolds Using Hydroxyapatite PEOT/PBT Composites. <i>Mathematics</i> , 2021, 9, 1746.	2.2	1

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19	Additive Manufactured Scaffolds for Bone Tissue Engineering: Physical Characterization of Thermoplastic Composites with Functional Fillers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3788-3799.	4.4	17
20	Bioprinting of kidney <i>in vitro</i> models: cells, biomaterials, and manufacturing techniques. <i>Essays in Biochemistry</i> , 2021, 65, 587-602.	4.7	23
21	Bioinspired Development of an In Vitro Engineered Fracture Callus for the Treatment of Critical Long Bone Defects. <i>Advanced Functional Materials</i> , 2021, 31, 2104159.	14.9	4
22	Chitin Nanofibril Application in Tympanic Membrane Scaffolds to Modulate Inflammatory and Immune Response. <i>Pharmaceutics</i> , 2021, 13, 1440.	4.5	17
23	Additive Manufacturing Using Melt Extruded Thermoplastics for Tissue Engineering. <i>Methods in Molecular Biology</i> , 2021, 2147, 75-99.	0.9	12
24	Shaping and properties of thermoplastic scaffolds in tissue regeneration: The effect of thermal history on polymer crystallization, surface characteristics and cell fate. <i>Journal of Materials Research</i> , 2021, 36, 3914-3935.	2.6	15
25	Improving cell distribution on 3D additive manufactured scaffolds through engineered seeding media density and viscosity. <i>Acta Biomaterialia</i> , 2020, 101, 183-195.	8.3	48
26	A novel method for engineering autologous non-thrombogenic <i>in situ</i> tissue-engineered blood vessels for arteriovenous grafting. <i>Biomaterials</i> , 2020, 229, 119577.	11.4	21
27	Decellularization of porcine heart tissue to obtain extracellular matrix based hydrogels. <i>Methods in Cell Biology</i> , 2020, 157, 3-21.	1.1	7
28	Microfluidic bioprinting towards a renal <i>in vitro</i> model. <i>Bioprinting</i> , 2020, 20, e00108.	5.8	20
29	pH Monitoring: Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds (<i>Small</i> 34/2020). <i>Small</i> , 2020, 16, 2070187.	10.0	0
30	Bioprinting: From Tissue and Organ Development to <i>in Vitro</i> Models. <i>Chemical Reviews</i> , 2020, 120, 10547-10607.	47.7	185
31	Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds. <i>Small</i> , 2020, 16, e2002258.	10.0	14
32	Ciprofloxacin-loaded polymeric nanoparticles incorporated electrospun fibers for drug delivery in tissue engineering applications. <i>Drug Delivery and Translational Research</i> , 2020, 10, 706-720.	5.8	67
33	Dimensionality changes actin network through lamin A/C and zyxin. <i>Biomaterials</i> , 2020, 240, 119854.	11.4	15
34	Scaffold-free and label-free biofabrication technology using levitational assembly in a high magnetic field. <i>Biofabrication</i> , 2020, 12, 045022.	7.1	16
35	Bioartificial Sponges for Auricular Cartilage Engineering. <i>Lecture Notes in Bioengineering</i> , 2020, , 191-209.	0.4	1
36	SCREENED: A Multistage Model of Thyroid Gland Function for Screening Endocrine-Disrupting Chemicals in a Biologically Sex-Specific Manner. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3648.	4.1	15

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37	Bioprinting Vasculature: Materials, Cells and Emergent Techniques. <i>Materials</i> , 2019, 12, 2701.	2.9	103
38	Multiwell three-dimensional systems enable in vivo screening of immune reactions to biomaterials: a new strategy toward translational biomaterial research. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 61.	3.6	3
39	Biofabrication: From Additive Manufacturing to Bioprinting. , 2019, , 41-41.		5
40	Ear Tissue Engineering. , 2019, , 270-285.		2
41	Acrylic Acid Plasma Coated 3D Scaffolds for Cartilage tissue engineering applications. <i>Scientific Reports</i> , 2018, 8, 3830.	3.3	44
42	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018, 36, 384-402.	9.3	465
43	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , 2018, 4, 85.	4.5	68
44	Thiol-ene Alginate Hydrogels as Versatile Bioinks for Bioprinting. <i>Biomacromolecules</i> , 2018, 19, 3390-3400.	5.4	146
45	3D fiber deposited polymeric scaffolds for external auditory canal wall. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 63.	3.6	8
46	Design, fabrication and characterization of composite piezoelectric ultrafine fibers for cochlear stimulation. <i>Materials and Design</i> , 2017, 122, 206-219.	7.0	57
47	Direct Writing Electrospinning of Scaffolds with Multidimensional Fiber Architecture for Hierarchical Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38187-38200.	8.0	97
48	Applications of bioresorbable polymers in skin and eardrum. , 2017, , 423-444.		3
49	Additive manufacturing of poly[(<i>R</i>)-3-hydroxybutyrate-co-(<i>R</i>)-3-hydroxyhexanoate] scaffolds for engineered bone development. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 175-186.	2.7	53
50	Patterning Vasculature: The Role of Biofabrication to Achieve an Integrated Multicellular Ecosystem. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1694-1709.	5.2	25
51	Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration. <i>Advanced Healthcare Materials</i> , 2016, 5, 1753-1763.	7.6	62
52	Additive manufactured polymeric 3D scaffolds with tailored surface topography influence mesenchymal stromal cells activity. <i>Biofabrication</i> , 2016, 8, 025012.	7.1	35
53	Tailored star poly(μ -caprolactone) wet-spun scaffolds for in vivo regeneration of long bone critical size defects. <i>Journal of Bioactive and Compatible Polymers</i> , 2016, 31, 15-30.	2.1	28
54	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. <i>Biofabrication</i> , 2016, 8, 045007.	7.1	63

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55	Osteochondral Regeneration: Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration (Adv. Healthcare Mater. 14/2016). Advanced Healthcare Materials, 2016, 5, 1832-1832.	7.6	4
56	Flexible Yttrium-Stabilized Zirconia Nanofibers Offer Bioactive Cues for Osteogenic Differentiation of Human Mesenchymal Stromal Cells. ACS Nano, 2016, 10, 5789-5799.	14.6	62
57	Surface energy and stiffness discrete gradients in additive manufactured scaffolds for osteochondral regeneration. Biofabrication, 2016, 8, 015014.	7.1	48
58	Tissue engineering of the tympanic membrane using electrospun PEOT/PBT copolymer scaffolds: A morphological in vitro study. Hearing, Balance and Communication, 2015, 13, 133-147.	0.4	25
59	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. Biofabrication, 2015, 7, 025005.	7.1	63
60	High Throughput Screening with Biofabrication Platforms. , 2015, , 187-213.		4
61	Additive manufacturing techniques for the production of tissue engineering constructs. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 174-190.	2.7	287
62	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. Biomatter, 2014, 4, e955386.	2.6	42
63	Glucose Gradients Influence Zonal Matrix Deposition in 3D Cartilage Constructs. Tissue Engineering - Part A, 2014, 20, 3270-3278.	3.1	10
64	Additive manufacturing of star poly(μ -caprolactone) wet-spun scaffolds for bone tissue engineering applications. Journal of Bioactive and Compatible Polymers, 2013, 28, 320-340.	2.1	66
65	Melt electrospinning writing of three-dimensional star poly(μ -caprolactone) scaffolds. Polymer International, 2013, 62, 893-900.	3.1	51
66	Fibrous star poly(μ -caprolactone) melt-electrospun scaffolds for wound healing applications. Journal of Bioactive and Compatible Polymers, 2013, 28, 492-507.	2.1	35
67	Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. Biomedical Microdevices, 2012, 14, 1115-1127.	2.8	118
68	Dual-Scale Polymeric Constructs as Scaffolds for Tissue Engineering. Materials, 2011, 4, 527-542.	2.9	57