

# Carlos Mota

## 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.

71 papers	1,915 citations	24 h-index	43 g-index
79 ext. papers	2,441 ext. citations	8.6 avg, IF	5.09 L-index

#	Paper	IF	Citations
71	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 384-402	15.1	309
70	Additive manufacturing techniques for the production of tissue engineering constructs. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 174-90	4.4	226
69	Thiol-Ene Alginate Hydrogels as Versatile Bioinks for Bioprinting. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3390-3400	4.09	103
68	Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. <i>Biomedical Microdevices</i> , <b>2012</b> , 14, 1115-27	3.7	100
67	Bioprinting: From Tissue and Organ Development to Models. <i>Chemical Reviews</i> , <b>2020</b> , 120, 10547-10607	68.1	86
66	Direct Writing Electrospinning of Scaffolds with Multidimensional Fiber Architecture for Hierarchical Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38187-38200	9.5	68
65	Additive manufacturing of star poly( $\epsilon$ -caprolactone) wet-spun scaffolds for bone tissue engineering applications. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2013</b> , 28, 320-340	2	54
64	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. <i>Biofabrication</i> , <b>2015</b> , 7, 025005	10.5	51
63	Bioprinting Vasculature: Materials, Cells and Emergent Techniques. <i>Materials</i> , <b>2019</b> , 12,	3.5	50
62	Melt electrospinning writing of three-dimensional star poly( $\epsilon$ -caprolactone) scaffolds. <i>Polymer International</i> , <b>2013</b> , 62, 893-900	3.3	47
61	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. <i>Biofabrication</i> , <b>2016</b> , 8, 045007	10.5	47
60	Flexible Yttrium-Stabilized Zirconia Nanofibers Offer Bioactive Cues for Osteogenic Differentiation of Human Mesenchymal Stromal Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 5789-99	16.7	45
59	Dual-Scale Polymeric Constructs as Scaffolds for Tissue Engineering. <i>Materials</i> , <b>2011</b> , 4, 527-542	3.5	45
58	Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1753-63	10.1	44
57	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , <b>2018</b> , 4,	4.2	44
56	Design, fabrication and characterization of composite piezoelectric ultrafine fibers for cochlear stimulation. <i>Materials and Design</i> , <b>2017</b> , 122, 206-219	8.1	42
55	Additive manufacturing of poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] scaffolds for engineered bone development. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 175-186	4.4	41

54	Surface energy and stiffness discrete gradients in additive manufactured scaffolds for osteochondral regeneration. <i>Biofabrication</i> , <b>2016</b> , 8, 015014	10.5	36
53	Ciprofloxacin-loaded polymeric nanoparticles incorporated electrospun fibers for drug delivery in tissue engineering applications. <i>Drug Delivery and Translational Research</i> , <b>2020</b> , 10, 706-720	6.2	33
52	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. <i>Biomatter</i> , <b>2014</b> , 4, e955386		32
51	Fibrous star poly(ε-caprolactone) melt-electrospun scaffolds for wound healing applications. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2013</b> , 28, 492-507	2	31
50	Acrylic Acid Plasma Coated 3D Scaffolds for Cartilage tissue engineering applications. <i>Scientific Reports</i> , <b>2018</b> , 8, 3830	4.9	28
49	Additive manufactured polymeric 3D scaffolds with tailored surface topography influence mesenchymal stromal cells activity. <i>Biofabrication</i> , <b>2016</b> , 8, 025012	10.5	27
48	Improving cell distribution on 3D additive manufactured scaffolds through engineered seeding media density and viscosity. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 183-195	10.8	23
47	Tailored star poly(ε-caprolactone) wet-spun scaffolds for in vivo regeneration of long bone critical size defects. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2016</b> , 31, 15-30	2	23
46	Tissue engineering of the tympanic membrane using electrospun PEOT/PBT copolymer scaffolds: A morphological in vitro study. <i>Hearing, Balance and Communication</i> , <b>2015</b> , 13, 133-147	0.7	21
45	Patterning Vasculature: The Role of Biofabrication to Achieve an Integrated Multicellular Ecosystem. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1694-1709	5.5	21
44	3D additive manufactured composite scaffolds with antibiotic-loaded lamellar fillers for bone infection prevention and tissue regeneration. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1073-1082	16.7	18
43	A novel method for engineering autologous non-thrombogenic in situ tissue-engineered blood vessels for arteriovenous grafting. <i>Biomaterials</i> , <b>2020</b> , 229, 119577	15.6	16
42	A hybrid additive manufacturing platform to create bulk and surface composition gradients on scaffolds for tissue regeneration. <i>Nature Communications</i> , <b>2021</b> , 12, 500	17.4	12
41	Scaffold-free and label-free biofabrication technology using levitational assembly in a high magnetic field. <i>Biofabrication</i> , <b>2020</b> , 12, 045022	10.5	11
40	Glucose gradients influence zonal matrix deposition in 3D cartilage constructs. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 3270-8	3.9	9
39	Microfluidic bioprinting towards a renal in vitro model. <i>Bioprinting</i> , <b>2020</b> , 20, e00108	7	9
38	Cell spheroids as a versatile research platform: formation mechanisms, high throughput production, characterization and applications. <i>Biofabrication</i> , <b>2021</b> ,	10.5	9
37	Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds. <i>Small</i> , <b>2020</b> , 16, e2002258	11	7

36	Dimensionality changes actin network through lamin A/C and zyxin. <i>Biomaterials</i> , <b>2020</b> , 240, 119854	15.6	7
35	3D fiber deposited polymeric scaffolds for external auditory canal wall. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 63	4.5	7
34	Tuning Cell Behavior on 3D Scaffolds Fabricated by Atmospheric Plasma-Assisted Additive Manufacturing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3631-3644	9.5	7
33	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> , <b>2020</b> , 21,	6.3	6
32	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> , <b>2021</b> , 119, 111472	8.3	6
31	Bioprinting of kidney in vitro models: cells, biomaterials, and manufacturing techniques. <i>Essays in Biochemistry</i> , <b>2021</b> , 65, 587-602	7.6	6
30	Chitin Nanofibril Application in Tympanic Membrane Scaffolds to Modulate Inflammatory and Immune Response. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	6
29	Osteochondral Regeneration: Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration (Adv. Healthcare Mater. 14/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1832-1832	10.1	4
28	Mimicking the Human Tympanic Membrane: The Significance of Scaffold Geometry. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002082	10.1	4
27	Additive Manufactured Scaffolds for Bone Tissue Engineering: Physical Characterization of Thermoplastic Composites with Functional Fillers. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3788-3799	4.3	4
26	Additive Manufacturing Using Melt Extruded Thermoplastics for Tissue Engineering. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2147, 75-99	1.4	4
25	High Throughput Screening with Biofabrication Platforms <b>2015</b> , 187-213		3
24	A hybrid additive manufacturing platform to create bulk and surface composition gradients on scaffolds for tissue regeneration		3
23	Decellularization of porcine heart tissue to obtain extracellular matrix based hydrogels. <i>Methods in Cell Biology</i> , <b>2020</b> , 157, 3-21	1.8	3
22	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> , <b>2021</b> , 22,	6.3	3
21	Applications of bioresorbable polymers in skin and eardrum <b>2017</b> , 423-444		2
20	3D culture platform of human iPSCs-derived nociceptors for peripheral nerve modeling and tissue innervation. <i>Biofabrication</i> , <b>2021</b> , 14,	10.5	2
19	Additive manufactured scaffolds for bone tissue engineering: physical characterization of thermoplastic composites with functional fillers		2

18	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> , <b>2019</b> , 30, 61	4.5	1
17	Biofabrication: From Additive Manufacturing to Bioprinting <b>2019</b> , 41-41		1
16	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> , <b>2022</b> , 112685	8.3	1
15	3D Additive Manufactured Composite Scaffolds with Antibiotic-loaded Lamellar Fillers for Bone Infection Prevention and Tissue Regeneration		1
14	Bioartificial Sponges for Auricular Cartilage Engineering. <i>Lecture Notes in Bioengineering</i> , <b>2020</b> , 191-209	0.8	1
13	Ear Tissue Engineering <b>2019</b> , 270-285		1
12	Mimicking the Human Tympanic Membrane: the Significance of Geometry		1
11	Effect of reduced graphene oxide (rGO) compaction degree and concentration on rGO-polymer composites printability and cell interactions		1
10	Size Effects in Finite Element Modelling of 3D Printed Bone Scaffolds Using Hydroxyapatite PEOT/PBT Composites. <i>Mathematics</i> , <b>2021</b> , 9, 1746	2.3	1
9	Effect of Highly Loaded Nanohydroxyapatite Composite Scaffolds Prepared via Melt Extrusion Additive Manufacturing on the Osteogenic Differentiation of Human Mesenchymal Stromal Cells		1
8	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> , <b>2022</b> , 108414	4.2	1
7	Photo-enzymatic dityrosine crosslinking for bioprinting. <i>Polymer</i> , <b>2022</b> , 124941	3.9	1
6	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> , <b>2021</b> , 36, 3914	2.5	0
5	Effect of the reduced graphene oxide (rGO) compaction degree and concentration on rGO-polymer composite printability and cell interactions. <i>Nanoscale</i> , <b>2021</b> , 13, 14382-14398	7.7	0
4	Regenerative therapies for tympanic membrane. <i>Progress in Materials Science</i> , <b>2022</b> , 127, 100942	42.2	0
3	Effect of high content nanohydroxyapatite composite scaffolds prepared via melt extrusion additive manufacturing on the osteogenic differentiation of human mesenchymal stromal cells <b>2022</b> , 212833		0
2	pH Monitoring: Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds (Small 34/2020). <i>Small</i> , <b>2020</b> , 16, 2070187	11	
1	Bioinspired Development of an In Vitro Engineered Fracture Callus for the Treatment of Critical Long Bone Defects. <i>Advanced Functional Materials</i> , 2104159	15.6	

