

# Marco Costantini

## 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.

54  
papers

2,345  
citations

24  
h-index

48  
g-index

56  
ext. papers

2,933  
ext. citations

7.8  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
54	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Low-Viscosity Bioink. <i>Advanced Materials</i> , <b>2016</b> , 28, 677-84	24	530
53	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers in vitro and in vivo. <i>Biomaterials</i> , <b>2017</b> , 131, 98-110	15.6	184
52	A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 13532	4.9	164
51	3D bioprinting of BM-MSCs-loaded ECM biomimetic hydrogels for in vitro neocartilage formation. <i>Biofabrication</i> , <b>2016</b> , 8, 035002	10.5	157
50	3D Bioprinting in Skeletal Muscle Tissue Engineering. <i>Small</i> , <b>2019</b> , 15, e1805530	11	113
49	Morphological comparison of PVA scaffolds obtained by gas foaming and microfluidic foaming techniques. <i>Langmuir</i> , <b>2013</b> , 29, 82-91	4	79
48	3D bioprinting of hydrogel constructs with cell and material gradients for the regeneration of full-thickness chondral defect using a microfluidic printing head. <i>Biofabrication</i> , <b>2019</b> , 11, 044101	10.5	72
47	Highly ordered and tunable polyHIPEs by using microfluidics. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2290-2300	7.3	72
46	PLA short sub-micron fiber reinforcement of 3D bioprinted alginate constructs for cartilage regeneration. <i>Biofabrication</i> , <b>2017</b> , 9, 044105	10.5	62
45	Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2017</b> , 78, 1277-1299	8.3	59
44	Extrusion and Microfluidic-based Bioprinting to Fabricate Biomimetic Tissues and Organs. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1901044	6.8	57
43	Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801218	10.1	56
42	Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 668-77	8.3	56
41	Rapid prototyping of chitosan-coated alginate scaffolds through the use of a 3D fiber deposition technique. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 6779-6791	7.3	55
40	Polysaccharide based scaffolds obtained by freezing the external phase of gas-in-liquid foams. <i>Soft Matter</i> , <b>2010</b> , 6, 5213	3.6	55
39	3D bioprinted hydrogel model incorporating β-tricalcium phosphate for calcified cartilage tissue engineering. <i>Biofabrication</i> , <b>2019</b> , 11, 035016	10.5	50
38	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 23660-71	9.5	50

37	3D-Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7620-7625	16.4	49
36	Co-axial wet-spinning in 3D bioprinting: state of the art and future perspective of microfluidic integration. <i>Biofabrication</i> , <b>2018</b> , 11, 012001	10.5	48
35	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 22	5.8	42
34	Combination of biochemical and mechanical cues for tendon tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , <b>2017</b> , 21, 2711-2719	5.6	28
33	3D Printing of Thermoresponsive Polyisocyanide (PIC) Hydrogels as Bioink and Fugitive Material for Tissue Engineering. <i>Polymers</i> , <b>2018</b> , 10,	4.5	28
32	Synthesis and characterization of a novel poly(vinyl alcohol) 3D platform for the evaluation of hepatocytes response to drug administration. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 3083-3098	7.3	26
31	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1612, 369-380	1.4	24
30	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800874	15.6	19
29	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines. <i>Small Methods</i> , <b>2021</b> , 5, 2100402	12.8	17
28	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 112005	8.3	16
27	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. <i>Materials Science and Engineering C</i> , <b>2021</b> , 122, 111896	8.3	15
26	Gas foaming technologies for 3D scaffold engineering <b>2018</b> , 127-149		14
25	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , <b>2021</b> , 124, 112057	8.3	14
24	Translational Application of Microfluidics and Bioprinting for Stem Cell-Based Cartilage Repair. <i>Stem Cells International</i> , <b>2018</b> , 2018, 6594841	5	12
23	Anomalous Debye-like dielectric relaxation of water in micro-sized confined polymeric systems. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20153-60	3.6	11
22	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 7608-7632	7.3	10
21	Hydrogel-Based Fiber Biofabrication Techniques for Skeletal Muscle Tissue Engineering.. <i>ACS Biomaterials Science and Engineering</i> , <b>2022</b> ,	5.5	9
20	Biofabricating murine and human myo-substitutes for rapid volumetric muscle loss restoration. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e12778	12	9

19	Electrospinning and microfluidics <b>2018</b> , 139-155		8
18	organized neovascularization induced by 3D bioprinted endothelial-derived extracellular vesicles. <i>Biofabrication</i> , <b>2021</b> , 13,	10.5	8
17	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 641-674	4.7	8
16	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 5077-5092	4.1	7
15	Tumor Extracellular Matrix Stiffness Promptly Modulates the Phenotype and Gene Expression of Infiltrating T Lymphocytes. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	7
14	Designing a 3D printed human derived artificial myo-structure for anal sphincter defects in anorectal malformations and adult secondary damage. <i>Materials Today Communications</i> , <b>2018</b> , 15, 120-125	2.5	6
13	Recent advances in tissue engineering and anticancer modalities with photosynthetic microorganisms as potent oxygen generators. <i>Biomedical Engineering Advances</i> , <b>2021</b> , 1, 100005		6
12	3D-Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7702-7707	3.6	4
11	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications.. <i>Materials</i> , <b>2022</b> , 15,	3.5	4
10	Extrusion 3D printing with Pectin-based ink formulations: Recent trends in tissue engineering and food manufacturing. <i>Biomedical Engineering Advances</i> , <b>2021</b> , 2, 100018		4
9	Skeletal Muscle-Derived Human Mesenchymal Stem Cells: Influence of Different Culture Conditions on Proliferative and Myogenic Capabilities. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 553198	4.6	4
8	3D printing of biphasic inks: beyond single-scale architectural control. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 12489-12508	7.1	4
7	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 732130	5.8	4
6	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (Adv. Funct. Mater. 20/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870133	15.6	3
5	Photocurable Biopolymers for Coaxial Bioprinting. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2147, 45-54	1.4	2
4	Chapter 9:3D Tissue Modelling of Skeletal Muscle Tissue. <i>Biomaterials Science Series</i> , <b>2019</b> , 184-215	0.6	2
3	Alginate-based tissue-specific bioinks for multi-material 3D-bioprinting of pancreatic islets and blood vessels: A step towards vascularized pancreas grafts. <i>Bioprinting</i> , <b>2021</b> , 24, e00163	7	2
2	Aligned Cell-Laden Yarns: Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns (Adv. Healthcare Mater. 7/2019). <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, 1970025	10.1	0

- 1 Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines (Small Methods 9/2021). *Small Methods*, **2021**, 5, 2170044 12.8