Marco Costantini

List of Publications by Year in Descending Order

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	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications.. *Materials*, **2022**, 15,	3.5	4
53	Hydrogel-Based Fiber Biofabrication Techniques for Skeletal Muscle Tissue Engineering.. *ACS Biomaterials Science and Engineering*, **2022**,	5.5	9
52	Extrusion 3D printing with Pectin-based ink formulations: Recent trends in tissue engineering and food manufacturing. *Biomedical Engineering Advances*, **2021**, 2, 100018		4
51	Photocurable Biopolymers for Coaxial Bioprinting. *Methods in Molecular Biology*, **2021**, 2147, 45-54	1.4	2
50	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. *Materials Science and Engineering C*, **2021**, 122, 111896	8.3	15
49	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. *Materials Science and Engineering C*, **2021**, 123, 112005	8.3	16
48	organized neovascularization induced by 3D bioprinted endothelial-derived extracellular vesicles. *Biofabrication*, **2021**, 13,	10.5	8
47	Recent advances in bioprinting technologies for engineering cardiac tissue. *Materials Science and Engineering C*, **2021**, 124, 112057	8.3	14
46	Tumor Extracellular Matrix Stiffness Promptly Modulates the Phenotype and Gene Expression of Infiltrating T Lymphocytes. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	7
45	Recent advances in tissue engineering and anticancer modalities with photosynthetic microorganisms as potent oxygen generators. *Biomedical Engineering Advances*, **2021**, 1, 100005		6
44	3D printing of biphasic inks: beyond single-scale architectural control. *Journal of Materials Chemistry C*, **2021**, 9, 12489-12508	7.1	4
43	4D printing in biomedical applications: emerging trends and technologies. *Journal of Materials Chemistry B*, **2021**, 9, 7608-7632	7.3	10
42	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. *Bio-Design and Manufacturing*, **2021**, 4, 641-674	4.7	8
41	Biofabricating murine and human myo-substitutes for rapid volumetric muscle loss restoration. *EMBO Molecular Medicine*, **2021**, 13, e12778	12	9
40	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines. *Small Methods*, **2021**, 5, 2100402	12.8	17
39	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines (Small Methods 9/2021). *Small Methods*, **2021**, 5, 2170044	12.8	
38	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 732130	5.8	4

37	Alginate-based tissue-specific bioinks for multi-material 3D-bioprinting of pancreatic islets and blood vessels: A step towards vascularized pancreas grafts. *Bioprinting*, **2021**, 24, e00163	7	2
36	Extrusion and Microfluidic-based Bioprinting to Fabricate Biomimetic Tissues and Organs. *Advanced Materials Technologies*, **2020**, 5, 1901044	6.8	57
35	Skeletal Muscle-Derived Human Mesenchymal Stem Cells: Influence of Different Culture Conditions on Proliferative and Myogenic Capabilities. *Frontiers in Physiology*, **2020**, 11, 553198	4.6	4
34	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects.. *ACS Applied Bio Materials*, **2019**, 2, 5077-5092	4.1	7
33	3D bioprinting of hydrogel constructs with cell and material gradients for the regeneration of full-thickness chondral defect using a microfluidic printing head. *Biofabrication*, **2019**, 11, 044101	10.5	72
32	3D Bioprinting in Skeletal Muscle Tissue Engineering. *Small*, **2019**, 15, e1805530	11	113
31	3D-Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. *Angewandte Chemie - International Edition*, **2019**, 58, 7620-7625	16.4	49
30	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). *Advanced Healthcare Materials*, **2019**, 8, 1970025	10.1	0
29	3D-Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. *Angewandte Chemie*, **2019**, 131, 7702-7707	3.6	4
28	3D bioprinted hydrogel model incorporating [illegible]tricalcium phosphate for calcified cartilage tissue engineering. *Biofabrication*, **2019**, 11, 035016	10.5	50
27	Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns. *Advanced Healthcare Materials*, **2019**, 8, e1801218	10.1	56
26	Chapter 9:3D Tissue Modelling of Skeletal Muscle Tissue. *Biomaterials Science Series*, **2019**, 184-215	0.6	2
25	Designing a 3D printed human derived artificial myo-structure for anal sphincter defects in anorectal malformations and adult secondary damage. *Materials Today Communications*, **2018**, 15, 120-123	2.5	6
24	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. *Advanced Functional Materials*, **2018**, 28, 1800874	15.6	19
23	Gas foaming technologies for 3D scaffold engineering **2018**, 127-149		14
22	3D Printing of Thermoresponsive Polyisocyanide (PIC) Hydrogels as Bioink and Fugitive Material for Tissue Engineering. *Polymers*, **2018**, 10,	4.5	28
21	Electrospinning and microfluidics **2018**, 139-155		8
20	Co-axial wet-spinning in 3D bioprinting: state of the art and future perspective of microfluidic integration. *Biofabrication*, **2018**, 11, 012001	10.5	48

19	A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes. *Scientific Reports*, **2018**, 8, 13532	4.9	164
18	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (Adv. Funct. Mater. 20/2018). *Advanced Functional Materials*, **2018**, 28, 1870133	15.6	3
17	Translational Application of Microfluidics and Bioprinting for Stem Cell-Based Cartilage Repair. *Stem Cells International*, **2018**, 2018, 6594841	5	12
16	Combination of biochemical and mechanical cues for tendon tissue engineering. *Journal of Cellular and Molecular Medicine*, **2017**, 21, 2711-2719	5.6	28
15	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs. *Methods in Molecular Biology*, **2017**, 1612, 369-380	1.4	24
14	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers in vitro and in vivo. *Biomaterials*, **2017**, 131, 98-110	15.6	184
13	Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. *Materials Science and Engineering C*, **2017**, 78, 1277-1299	8.3	59
12	PLA short sub-micron fiber reinforcement of 3D bioprinted alginate constructs for cartilage regeneration. *Biofabrication*, **2017**, 9, 044105	10.5	62
11	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. *Frontiers in Bioengineering and Biotechnology*, **2017**, 5, 22	5.8	42
10	3D bioprinting of BM-MSCs-loaded ECM biomimetic hydrogels for in vitro neocartilage formation. *Biofabrication*, **2016**, 8, 035002	10.5	157
9	Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. *Materials Science and Engineering C*, **2016**, 62, 668-77	8.3	56
8	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Low-Viscosity Bioink. *Advanced Materials*, **2016**, 28, 677-84	24	530
7	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. *ACS Applied Materials & Interfaces*, **2015**, 7, 23660-71	9.5	50
6	Highly ordered and tunable polyHIPEs by using microfluidics. *Journal of Materials Chemistry B*, **2014**, 2, 2290-2300	7.3	72
5	Rapid prototyping of chitosan-coated alginate scaffolds through the use of a 3D fiber deposition technique. *Journal of Materials Chemistry B*, **2014**, 2, 6779-6791	7.3	55
4	Anomalous Debye-like dielectric relaxation of water in micro-sized confined polymeric systems. *Physical Chemistry Chemical Physics*, **2013**, 15, 20153-60	3.6	11
3	Synthesis and characterization of a novel poly(vinyl alcohol) 3D platform for the evaluation of hepatocytes' response to drug administration. *Journal of Materials Chemistry B*, **2013**, 1, 3083-3098	7.3	26
2	Morphological comparison of PVA scaffolds obtained by gas foaming and microfluidic foaming techniques. *Langmuir*, **2013**, 29, 82-91	4	79

1	Polysaccharide based scaffolds obtained by freezing the external phase of gas-in-liquid foams. *Soft Matter*, **2010**, 6, 5213	3.6	55