

Marco Costantini

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,570
citations

172457

29
h-index

182427

51
g-index

56
all docs

56
docs citations

56
times ranked

4558
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Low-Viscosity Bioink. <i>Advanced Materials</i> , 2016, 28, 677-684.	21.0	677
2	A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , 2018, 8, 13532.	3.3	268
3	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers <i>in vitro</i> and <i>in vivo</i> . <i>Biomaterials</i> , 2017, 131, 98-110.	11.4	252
4	3D bioprinting of BM-MSCs-loaded ECM biomimetic hydrogels for <i>in vitro</i> neocartilage formation. <i>Biofabrication</i> , 2016, 8, 035002.	7.1	211
5	3D Bioprinting in Skeletal Muscle Tissue Engineering. <i>Small</i> , 2019, 15, e1805530.	10.0	192
6	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> , 2019, 11, 044101.	7.1	120
7	Extrusion and Microfluidic-Based Bioprinting to Fabricate Biomimetic Tissues and Organs. <i>Advanced Materials Technologies</i> , 2020, 5, 1901044.	5.8	110
8	Morphological Comparison of PVA Scaffolds Obtained by Gas Foaming and Microfluidic Foaming Techniques. <i>Langmuir</i> , 2013, 29, 82-91.	3.5	92
9	PLA short sub-micron fiber reinforcement of 3D bioprinted alginate constructs for cartilage regeneration. <i>Biofabrication</i> , 2017, 9, 044105.	7.1	88
10	Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801218.	7.6	84
11	Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2017, 78, 1277-1299.	7.3	82
12	3D bioprinted hydrogel model incorporating β -tricalcium phosphate for calcified cartilage tissue engineering. <i>Biofabrication</i> , 2019, 11, 035016.	7.1	82
13	Highly ordered and tunable polyHIPEs by using microfluidics. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2290.	5.8	80
14	Co-axial wet-spinning in 3D bioprinting: state of the art and future perspective of microfluidic integration. <i>Biofabrication</i> , 2019, 11, 012001.	7.1	75
15	3D-Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7620-7625.	13.8	73
16	Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. <i>Materials Science and Engineering C</i> , 2016, 62, 668-677.	7.3	70
17	Rapid prototyping of chitosan-coated alginate scaffolds through the use of a 3D fiber deposition technique. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6779-6791.	5.8	69
18	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7608-7632.	5.8	65

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19	Polysaccharide based scaffolds obtained by freezing the external phase of gas-in-liquid foams. <i>Soft Matter</i> , 2010, 6, 5213.	2.7	60
20	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 22.	4.1	60
21	Hydrogel-Based Fiber Biofabrication Techniques for Skeletal Muscle Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 379-405.	5.2	57
22	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23660-23671.	8.0	55
23	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 122, 111896.	7.3	46
24	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines. <i>Small Methods</i> , 2021, 5, 2100402.	8.6	45
25	3D Printing of Thermoresponsive Polyisocyanide (PIC) Hydrogels as Bioink and Fugitive Material for Tissue Engineering. <i>Polymers</i> , 2018, 10, 555.	4.5	38
26	Combination of biochemical and mechanical cues for tendon tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 2711-2719.	3.6	35
27	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , 2021, 124, 112057.	7.3	35
28	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. <i>Advanced Functional Materials</i> , 2018, 28, 1800874.	14.9	32
29	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> , 2013, 1, 3083.	5.8	31
30	Biofabricating murine and human myo substitutes for rapid volumetric muscle loss restoration. <i>EMBO Molecular Medicine</i> , 2021, 13, e12778.	6.9	29
31	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , 2021, 123, 112005.	7.3	29
32	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications. <i>Materials</i> , 2022, 15, 337.	2.9	29
33	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs. <i>Methods in Molecular Biology</i> , 2017, 1612, 369-380.	0.9	28
34	Tumor Extracellular Matrix Stiffness Promptly Modulates the Phenotype and Gene Expression of Infiltrating T Lymphocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5862.	4.1	25
35	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> , 2021, 24, e00163.	5.8	25
36	Gas foaming technologies for 3D scaffold engineering. , 2018, , 127-149.		23

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37	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. <i>Bio-Design and Manufacturing</i> , 2021, 4, 641-674.	7.7	22
38	Extrusion 3D printing with Pectin-based ink formulations: Recent trends in tissue engineering and food manufacturing. <i>Biomedical Engineering Advances</i> , 2021, 2, 100018.	3.8	22
39	In vivo organized neovascularization induced by 3D bioprinted endothelial-derived extracellular vesicles. <i>Biofabrication</i> , 2021, 13, 035014.	7.1	21
40	Translational Application of Microfluidics and Bioprinting for Stem Cell-Based Cartilage Repair. <i>Stem Cells International</i> , 2018, 2018, 1-14.	2.5	19
41	Skeletal Muscle-Derived Human Mesenchymal Stem Cells: Influence of Different Culture Conditions on Proliferative and Myogenic Capabilities. <i>Frontiers in Physiology</i> , 2020, 11, 553198.	2.8	16
42	Anomalous Debye-like dielectric relaxation of water in micro-sized confined polymeric systems. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20153.	2.8	14
43	3D printing of biphasic inks: beyond single-scale architectural control. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12489-12508.	5.5	14
44	Electrospinning and microfluidics. , 2018, , 139-155.		12
45	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects. <i>ACS Applied Bio Materials</i> , 2019, 2, 5077-5092.	4.6	12
46	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 732130.	4.1	11
47	Recent advances in tissue engineering and anticancer modalities with photosynthetic microorganisms as potent oxygen generators. <i>Biomedical Engineering Advances</i> , 2021, 1, 100005.	3.8	10
48	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> , 2018, 15, 120-123.	1.9	7
49	3D Printing of Functionally Graded Porous Materials Using On-Demand Reconfigurable Microfluidics. <i>Angewandte Chemie</i> , 2019, 131, 7702-7707.	2.0	6
50	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (<i>Adv. Funct. Mater.</i> 20/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870133.	14.9	4
51	3D Tissue Modelling of Skeletal Muscle Tissue. <i>Biomaterials Science Series</i> , 2019, , 184-215.	0.2	4
52	Photocurable Biopolymers for Coaxial Bioprinting. <i>Methods in Molecular Biology</i> , 2021, 2147, 45-54.	0.9	3
53	Aligned Cell-Laden Yarns: Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns (<i>Adv. Healthcare Mater.</i> 7/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970025.	7.6	1
54	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines (Small) <i>Tj ETQq0,0,0 rgBT /O</i> <i>Overlock 1</i>	8.6	0