

Riccardo Levato

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.

57 papers	2,286 citations	22 h-index	47 g-index
67 ext. papers	3,110 ext. citations	8.9 avg, IF	5.41 L-index

#	Paper	IF	Citations
57	Biofabrication of tissue constructs by 3D bioprinting of cell-laden microcarriers. <i>Biofabrication</i> , 2014 , 6, 035020	10.5	256
56	Printability and Shape Fidelity of Bioinks in 3D Bioprinting. <i>Chemical Reviews</i> , 2020 , 120, 11028-11055	68.1	178
55	The bio in the ink: cartilage regeneration with bioprintable hydrogels and articular cartilage-derived progenitor cells. <i>Acta Biomaterialia</i> , 2017 , 61, 41-53	10.8	176
54	Assessing bioink shape fidelity to aid material development in 3D bioprinting. <i>Biofabrication</i> , 2017 , 10, 014102	10.5	153
53	From Shape to Function: The Next Step in Bioprinting. <i>Advanced Materials</i> , 2020 , 32, e1906423	24	145
52	Volumetric Bioprinting of Complex Living-Tissue Constructs within Seconds. <i>Advanced Materials</i> , 2019 , 31, e1904209	24	144
51	Disassembling bacterial extracellular matrix with DNase-coated nanoparticles to enhance antibiotic delivery in biofilm infections. <i>Journal of Controlled Release</i> , 2015 , 209, 150-8	11.7	140
50	Bio-resin for high resolution lithography-based biofabrication of complex cell-laden constructs. <i>Biofabrication</i> , 2018 , 10, 034101	10.5	135
49	Double printing of hyaluronic acid/poly(glycidol) hybrid hydrogels with poly(ϵ -caprolactone) for MSC chondrogenesis. <i>Biofabrication</i> , 2017 , 9, 044108	10.5	89
48	A Stimuli-Responsive Nanocomposite for 3D Anisotropic Cell-Guidance and Magnetic Soft Robotics. <i>Advanced Functional Materials</i> , 2019 , 29, 1804647	15.6	77
47	Development of a thermosensitive HAMA-containing bio-ink for the fabrication of composite cartilage repair constructs. <i>Biofabrication</i> , 2017 , 9, 015026	10.5	64
46	Three-Dimensional Bioprinting and Its Potential in the Field of Articular Cartilage Regeneration. <i>Cartilage</i> , 2017 , 8, 327-340	3	64
45	Hydrogel-based reinforcement of 3D bioprinted constructs. <i>Biofabrication</i> , 2016 , 8, 035004	10.5	63
44	Combining multi-scale 3D printing technologies to engineer reinforced hydrogel-ceramic interfaces. <i>Biofabrication</i> , 2020 , 12, 025014	10.5	52
43	Rapid Photocrosslinking of Silk Hydrogels with High Cell Density and Enhanced Shape Fidelity. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901667	10.1	45
42	Bio-ink development for three-dimensional bioprinting of hetero-cellular cartilage constructs. <i>Connective Tissue Research</i> , 2020 , 61, 137-151	3.3	41
41	Role of ECM/peptide coatings on SDF-1 β -triggered mesenchymal stromal cell migration from microcarriers for cell therapy. <i>Acta Biomaterialia</i> , 2015 , 18, 59-67	10.8	35

40	Layer-by-layer bioassembly of cellularized polylactic acid porous membranes for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 78	4.5	29
39	From intricate to integrated: Biofabrication of articulating joints. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2089-2097	3.8	27
38	One-Step Photoactivation of a Dual-Functionalized Bioink as Cell Carrier and Cartilage-Binding Glue for Chondral Regeneration. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901792	10.1	25
37	Modular bioink for 3D printing of biocompatible hydrogels: sol-gel polymerization of hybrid peptides and polymers. <i>RSC Advances</i> , 2017 , 7, 12231-12235	3.7	24
36	5.14 Biofabrication in Tissue Engineering 2017 , 236-266		22
35	Progenitor cells in auricular cartilage demonstrate cartilage-forming capacity in 3D hydrogel culture. <i>European Cells and Materials</i> , 2018 , 35, 132-150	4.3	21
34	Mimicking the Articular Joint with In Vitro Models. <i>Trends in Biotechnology</i> , 2019 , 37, 1063-1077	15.1	20
33	Preparation of biodegradable polylactide microparticles via a biocompatible procedure. <i>Macromolecular Bioscience</i> , 2012 , 12, 557-66	5.5	20
32	Modular polylactic acid microparticle-based scaffolds prepared via microfluidic emulsion/solvent displacement process: fabrication, characterization, and in vitro mesenchymal stem cells interaction study. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 720-32	5.4	20
31	Ex vivo model unravelling cell distribution effect in hydrogels for cartilage repair. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 65-76	4.3	19
30	Collagen Microfibers Induce Blood Capillary Orientation and Open Vascular Lumen. <i>Advanced Biology</i> , 2020 , 4, e2000038	3.5	16
29	Bioprinting Neural Systems to Model Central Nervous System Diseases. <i>Advanced Functional Materials</i> , 2020 , 30, 1910250	15.6	15
28	Hydrogel-Based Bioinks for Cell Electrowriting of Well-Organized Living Structures with Micrometer-Scale Resolution. <i>Biomacromolecules</i> , 2021 , 22, 855-866	6.9	15
27	Orthotopic Bone Regeneration within 3D Printed Bioceramic Scaffolds with Region-Dependent Porosity Gradients in an Equine Model. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901807	10.1	14
26	Volumetric Bioprinting of Organoids and Optically Tuned Hydrogels to Build Liver-Like Metabolic Biofactories.. <i>Advanced Materials</i> , 2022 , e2110054	24	14
25	A Multifunctional Nanocomposite Hydrogel for Endoscopic Tracking and Manipulation. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900105	6	12
24	A composite hydrogel-3D printed thermoplast osteochondral anchor as example for a zonal approach to cartilage repair: in vivo performance in a long-term equine model. <i>Biofabrication</i> , 2020 , 12, 035028	10.5	11
23	Polylactic acid organogel as versatile scaffolding technique. <i>Polymer</i> , 2017 , 113, 81-91	3.9	9

22	High-resolution lithographic biofabrication of hydrogels with complex microchannels from low-temperature-soluble gelatin bioresins. <i>Materials Today Bio</i> , 2021 , 12, 100162	9.9	9
21	Bone Morphogenetic Protein-9 Is a Potent Chondrogenic and Morphogenic Factor for Articular Cartilage Chondroprogenitors. <i>Stem Cells and Development</i> , 2020 , 29, 882-894	4.4	7
20	Platelet-Rich Plasma Does Not Inhibit Inflammation or Promote Regeneration in Human Osteoarthritic Chondrocytes Despite Increased Proliferation. <i>Cartilage</i> , 2020 , 1947603520961162	3	7
19	Importance of Timing of Platelet Lysate-Supplementation in Expanding or Redifferentiating Human Chondrocytes for Chondrogenesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 804	5.8	7
18	Biofabrication: Volumetric Bioprinting of Complex Living-Tissue Constructs within Seconds (Adv. Mater. 42/2019). <i>Advanced Materials</i> , 2019 , 31, 1970302	24	6
17	Endochondral Bone Regeneration by Non-autologous Mesenchymal Stem Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 651	5.8	6
16	Bioprinting of Human Liver-Derived Epithelial Organoids for Toxicity Studies. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100327	5.5	6
15	Fabrication of Decellularized Cartilage-derived Matrix Scaffolds. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	5
14	Fabrication of MSC-laden composites of hyaluronic acid hydrogels reinforced with MEW scaffolds for cartilage repair. <i>Biofabrication</i> , 2021 , 14,	10.5	5
13	Differential Production of Cartilage ECM in 3D Agarose Constructs by Equine Articular Cartilage Progenitor Cells and Mesenchymal Stromal Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
12	Impact of Endotoxins in Gelatine Hydrogels on Chondrogenic Differentiation and Inflammatory Cytokine Secretion In Vitro. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
11	Preparation and Characterization of New Biodegradable Films Made from Poly(L-Lactic Acid) and Chitosan Blends Using a Common Solvent. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 1121-1129	1.4	4
10	Biofabrication of a shape-stable auricular structure for the reconstruction of ear deformities. <i>Materials Today Bio</i> , 2021 , 9, 100094	9.9	3
9	A Multifunctional Nanocomposite Hydrogel for Endoscopic Tracking and Manipulation. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2070031	6	2
8	Biofabrication: From Additive Manufacturing to Bioprinting 2019 , 41-41		1
7	The clinical potential of articular cartilage-derived progenitor cells: a systematic review.. <i>Npj Regenerative Medicine</i> , 2022 , 7, 2	15.8	1
6	Impact of endotoxins in gelatine hydrogels on chondrogenic differentiation and inflammatory cytokine secretion in vitro		1
5	Regulation of Chondrocyte Differentiation by Changing Intercellular Distances Using Type II Collagen Microfibers. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5711-5719	5.5	1

4	Acceleration of Bone Regeneration Induced by a Soft-Callus Mimetic Material.. <i>Advanced Science</i> , 2021 , e2103284	13.6	1
3	Progenitor Cells in Healthy and Osteoarthritic Human Cartilage Have Extensive Culture Expansion Capacity while Retaining Chondrogenic Properties. <i>Cartilage</i> , 2021 , 19476035211059600	3	0
2	Biofunctionalization of polymeric surfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1745-8	0.9	
1	Response. <i>Cartilage</i> , 2021 , 1947603521989486	3	