

Luiz Bertassoni

List of Publications by Year in descending order

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34
papers

3,990
citations

331670

21
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

6173
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioprinting of Complex Multicellular Organs with Advanced Functionality—Recent Progress and Challenges Ahead. <i>Advanced Materials</i> , 2022, 34, e2101321.	21.0	31
2	Oral mucosa equivalents, prevascularization approaches, and potential applications. <i>Connective Tissue Research</i> , 2022, 63, 514-529.	2.3	6
3	Bone-on-a-Chip: Microfluidic Technologies and Microphysiologic Models of Bone Tissue. <i>Advanced Functional Materials</i> , 2021, 31, 2006796.	14.9	49
4	Prevascularized hydrogels with mature vascular networks promote the regeneration of critical-size calvarial bone defects in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 219-231.	2.7	18
5	BoneMA—synthesis and characterization of a methacrylated bone-derived hydrogel for bioprinting of in-vitro vascularized tissue constructs. <i>Biofabrication</i> , 2021, 13, 035031.	7.1	21
6	A dual-ink 3D printing strategy to engineer pre-vascularized bone scaffolds in-vitro. <i>Materials Science and Engineering C</i> , 2021, 123, 111976.	7.3	27
7	Biomaterial and Biofilm Interactions with the Pulp-Dentin Complex-on-a-Chip. <i>Journal of Dental Research</i> , 2021, 100, 1136-1143.	5.2	26
8	Interface between Materials and Oral Biology. <i>Journal of Dental Research</i> , 2021, 100, 1009-1010.	5.2	9
9	Nanoscale mineralization of cell-laden methacrylated gelatin hydrogels using calcium carbonate - calcium citrate core-shell microparticles. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9583-9593.	5.8	4
10	The tooth on-a-chip: a microphysiologic model system mimicking the biologic interface of the tooth with biomaterials. <i>Lab on A Chip</i> , 2020, 20, 405-413.	6.0	50
11	Micropatterned hydrogels and cell alignment enhance the odontogenic potential of stem cells from apical papilla in-vitro. <i>Dental Materials</i> , 2020, 36, 88-96.	3.5	30
12	Equivalence of human and bovine dentin matrix molecules for dental pulp regeneration: proteomic analysis and biological function. <i>Archives of Oral Biology</i> , 2020, 119, 104888.	1.8	8
13	3D Printing of Microgel-Loaded Modular Microcages as Instructive Scaffolds for Tissue Engineering. <i>Advanced Materials</i> , 2020, 32, e2001736.	21.0	42
14	Progress and Challenges in Microengineering the Dental Pulp Vascular Microenvironment. <i>Journal of Endodontics</i> , 2020, 46, S90-S100.	3.1	19
15	Engineering pericyte-supported microvascular capillaries in cell-laden hydrogels using stem cells from the bone marrow, dental pulp and dental apical papilla. <i>Scientific Reports</i> , 2020, 10, 21579.	3.3	24
16	Bioinspired reconfiguration of 3D printed microfluidic hydrogels via automated manipulation of magnetic inks. <i>Lab on A Chip</i> , 2020, 20, 1713-1719.	6.0	7
17	Rapid fabrication of vascularized and innervated cell-laden bone models with biomimetic intrafibrillar collagen mineralization. <i>Nature Communications</i> , 2019, 10, 3520.	12.8	124
18	The influence of osteopontin-guided collagen intrafibrillar mineralization on pericyte differentiation and vascularization of engineered bone scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1522-1532.	3.4	19

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19	Photopolymerization of cell-laden gelatin methacryloyl hydrogels using a dental curing light for regenerative dentistry. <i>Dental Materials</i> , 2018, 34, 389-399.	3.5	154
20	A dentin-derived hydrogel bioink for 3D bioprinting of cell laden scaffolds for regenerative dentistry. <i>Biofabrication</i> , 2018, 10, 024101.	7.1	135
21	Engineering Microvascular Networks in LED Light-Cured Cell-Laden Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2563-2570.	5.2	41
22	Dentin on the nanoscale: Hierarchical organization, mechanical behavior and bioinspired engineering. <i>Dental Materials</i> , 2017, 33, 637-649.	3.5	69
23	A Novel Strategy to Engineer Pre-Vascularized Full-Length Dental Pulp-like Tissue Constructs. <i>Scientific Reports</i> , 2017, 7, 3323.	3.3	98
24	Biomaterials for Craniofacial Bone Regeneration. <i>Dental Clinics of North America</i> , 2017, 61, 835-856.	1.8	94
25	Immunolocalization and distribution of proteoglycans in carious dentine. <i>Australian Dental Journal</i> , 2016, 61, 288-297.	1.5	13
26	Three-Dimensional Bioprinting for Regenerative Dentistry and Craniofacial Tissue Engineering. <i>Journal of Dental Research</i> , 2015, 94, 143S-152S.	5.2	180
27	Engineering Pre-vascularized Scaffolds for Bone Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2015, 881, 79-94.	1.6	90
28	Preface: engineering mineralized and load-bearing tissues: progress and challenges. <i>Advances in Experimental Medicine and Biology</i> , 2015, 881, v-vii.	1.6	5
29	The contribution of proteoglycans to the mechanical behavior of mineralized tissues. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 38, 91-104.	3.1	41
30	25th Anniversary Article: Rational Design and Applications of Hydrogels in Regenerative Medicine. <i>Advanced Materials</i> , 2014, 26, 85-124.	21.0	1,103
31	Direct-write bioprinting of cell-laden methacrylated gelatin hydrogels. <i>Biofabrication</i> , 2014, 6, 024105.	7.1	528
32	Hydrogel bioprinted microchannel networks for vascularization of tissue engineering constructs. <i>Lab on A Chip</i> , 2014, 14, 2202-2211.	6.0	759
33	The dentin organic matrix "limitations of restorative dentistry hidden on the nanometer scale. <i>Acta Biomaterialia</i> , 2012, 8, 2419-2433.	8.3	163
34	Challenges and Perspectives on the Use of Pericytes in Tissue Engineering. <i>Current Tissue Microenvironment Reports</i> , 0, , .	3.2	0