

Bhushan P Mahadik

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

824
citations

687335

13
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677123

22
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26
all docs

26
docs citations

26
times ranked

1257
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printed cellulose based product applications. <i>Materials Chemistry Frontiers</i> , 2022, 6, 254-279.	5.9	25
2	Sustained released of bioactive mesenchymal stromal cellâ€derived extracellular vesicles from 3Dâ€printed gelatin methacrylate hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1190-1198.	4.0	26
3	Human Mesenchymal Stem Cellâ€Derived Miniature Joint System for Disease Modeling and Drug Testing. <i>Advanced Science</i> , 2022, 9, e2105909.	11.2	22
4	Fabrication of centimeter-sized 3D constructs with patterned endothelial cells through assembly of cell-laden microbeads as a potential bone graft. <i>Acta Biomaterialia</i> , 2021, 121, 204-213.	8.3	11
5	Mechanisms of angiogenic incompetence in Hutchinsonâ€Gilford progeria via downregulation of endothelial NOS. <i>Aging Cell</i> , 2021, 20, e13388.	6.7	11
6	3D printing technologies for <i>in vitro</i> vaccine testing platforms and vaccine delivery systems against infectious diseases. <i>Essays in Biochemistry</i> , 2021, 65, 519-531.	4.7	2
7	Hydrogels Containing Gradients in Vascular Density Reveal Doseâ€Dependent Role of Angiocrine Cues on Stem Cell Behavior. <i>Advanced Functional Materials</i> , 2021, 31, 2101541.	14.9	5
8	Dual Extrusion Patterning Drives Tissue Development Aesthetics and Shape Retention in 3D Printed Nippleâ€Areola Constructs. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101249.	7.6	8
9	Long-Term Sustained Drug Delivery via 3D Printed Masks for the Development of a Heparin-Loaded Interlayer in Vascular Tissue Engineering Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50812-50822.	8.0	13
10	Hybrid 3D Printing of Synthetic and Cellâ€Laden Bioinks for Shape Retaining Soft Tissue Grafts. <i>Advanced Functional Materials</i> , 2020, 30, 1907145.	14.9	50
11	Vascularization in tissue engineering: fundamentals and state-of-art. <i>Progress in Biomedical Engineering</i> , 2020, 2, 012002.	4.9	77
12	Engineered Liver Tissue Culture in an In Vitro Tubular Perfusion System. <i>Tissue Engineering - Part A</i> , 2020, 26, 1369-1377.	3.1	0
13	Overview of Tissue Engineering Concepts and Applications. , 2020, , 1289-1316.		4
14	Programmable Culture Substrates: 4D Selfâ€Morphing Culture Substrate for Modulating Cell Differentiation (<i>Adv. Sci.</i> 5/2020). <i>Advanced Science</i> , 2020, 7, 2070034.	11.2	2
15	4D Selfâ€Morphing Culture Substrate for Modulating Cell Differentiation. <i>Advanced Science</i> , 2020, 7, 1902403.	11.2	46
16	Addressing present pitfalls in 3D printing for tissue engineering to enhance future potential. <i>APL Bioengineering</i> , 2020, 4, 010901.	6.2	28
17	Current and Future Perspectives on Skin Tissue Engineering: Key Features of Biomedical Research, Translational Assessment, and Clinical Application. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801471.	7.6	131
18	A computational model of feedback-mediated hematopoietic stem cell differentiation in vitro. <i>PLoS ONE</i> , 2019, 14, e0212502.	2.5	13

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19	Regulating dynamic signaling between hematopoietic stem cells and niche cells via a hydrogel matrix. <i>Biomaterials</i> , 2017, 125, 54-64.	11.4	53
20	Spatially graded hydrogels for preclinical testing of glioblastoma anticancer therapeutics. <i>MRS Communications</i> , 2017, 7, 442-449.	1.8	22
21	Engineering the hematopoietic stem cell niche: <i>Frontiers in biomaterial science. Biotechnology Journal</i> , 2015, 10, 1529-1545.	3.5	81
22	The use of covalently immobilized stem cell factor to selectively affect hematopoietic stem cell activity within a gelatin hydrogel. <i>Biomaterials</i> , 2015, 67, 297-307.	11.4	94
23	Microfluidic Generation of Gradient Hydrogels to Modulate Hematopoietic Stem Cell Culture Environment. <i>Advanced Healthcare Materials</i> , 2014, 3, 449-458.	7.6	94
24	Cell-Laden Hydrogels in Integrated Microfluidic Devices for Long-Term Cell Culture and Tubulogenesis Assays. <i>Small</i> , 2013, 9, 3076-3081.	10.0	4