

Jordan Miller

List of Publications by Citations

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Version: 2024-04-20

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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.

48
papers

5,244
citations

28
h-index

52
g-index

52
ext. papers

6,010
ext. citations

9.8
avg, IF

5.7
L-index

#	Paper	IF	Citations
48	Rapid casting of patterned vascular networks for perfusable engineered three-dimensional tissues. <i>Nature Materials</i> , 2012 , 11, 768-74	27	1402
47	Multivascular networks and functional intravascular topologies within biocompatible hydrogels. <i>Science</i> , 2019 , 364, 458-464	33.3	557
46	Measurement of mechanical tractions exerted by cells in three-dimensional matrices. <i>Nature Methods</i> , 2010 , 7, 969-71	21.6	444
45	Three-Dimensional Biochemical and Biomechanical Patterning of Hydrogels for Guiding Cell Behavior. <i>Advanced Materials</i> , 2006 , 18, 2679-2684	24	369
44	Bioresponsive mesoporous silica nanoparticles for triggered drug release. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19582-5	16.4	303
43	Multidimensional traction force microscopy reveals out-of-plane rotational moments about focal adhesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 881-6	11.5	198
42	Geometric control of vascular networks to enhance engineered tissue integration and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7586-91	11.5	197
41	Protease-activated quantum dot probes. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 1317-21	3.4	194
40	Bioactive hydrogels made from step-growth derived PEG-peptide macromers. <i>Biomaterials</i> , 2010 , 31, 3736-43	15.6	187
39	Multilayer microfluidic PEGDA hydrogels. <i>Biomaterials</i> , 2010 , 31, 5491-7	15.6	176
38	The billion cell construct: will three-dimensional printing get us there?. <i>PLoS Biology</i> , 2014 , 12, e1001882	9.7	99
37	3D bioprinting: improving in vitro models of metastasis with heterogeneous tumor microenvironments. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 3-14	4.1	98
36	3D-printed fluidic networks as vasculature for engineered tissue. <i>Lab on A Chip</i> , 2016 , 16, 2025-43	7.2	93
35	Poly(ethylene glycol) hydrogels conjugated with a collagenase-sensitive fluorogenic substrate to visualize collagenase activity during three-dimensional cell migration. <i>Biomaterials</i> , 2007 , 28, 3163-70	15.6	89
34	Tissue vascularization through 3D printing: Will technology bring us flow?. <i>Developmental Dynamics</i> , 2015 , 244, 629-40	2.9	87
33	Laser Scanning Lithography for Surface Micropatterning on Hydrogels. <i>Advanced Materials</i> , 2005 , 17, 2939-2942	24	83
32	Proteolytically degradable hydrogels with a fluorogenic substrate for studies of cellular proteolytic activity and migration. <i>Biotechnology Progress</i> , 2005 , 21, 1736-41	2.8	58

31	Open-Source Selective Laser Sintering (OpenSLS) of Nylon and Biocompatible Polycaprolactone. <i>PLoS ONE</i> , 2016 , 11, e0147399	3.7	54
30	Degradable hydrogels derived from PEG-diacrylamide for hepatic tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3331-8	5.4	49
29	In Vivo Anastomosis and Perfusion of a Three-Dimensionally-Printed Construct Containing Microchannel Networks. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 1-7	2.9	49
28	Laser-scanning lithography (LSL) for the soft lithographic patterning of cell-adhesive self-assembled monolayers. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 1060-8	4.9	47
27	Generation of model tissues with dendritic vascular networks via sacrificial laser-sintered carbohydrate templates. <i>Nature Biomedical Engineering</i> , 2020 , 4, 916-932	19	42
26	Tissue-engineered, hydrogel-based endothelial progenitor cell therapy robustly revascularizes ischemic myocardium and preserves ventricular function. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 1090-7; discussion 1097-8	1.5	36
25	Open-source three-dimensional printing of biodegradable polymer scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4326-35	5.4	35
24	Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography. <i>Advanced Functional Materials</i> , 2011 , 21, 2876-2888	15.6	33
23	Tubulogenesis of co-cultured human iPS-derived endothelial cells and human mesenchymal stem cells in fibrin and gelatin methacrylate gels. <i>Biomaterials Science</i> , 2017 , 5, 1652-1660	7.4	30
22	Decreased cell adhesion promotes angiogenesis in a Pyk2-dependent manner. <i>Experimental Cell Research</i> , 2011 , 317, 1860-71	4.2	30
21	Progress in three-dimensional bioprinting. <i>MRS Bulletin</i> , 2017 , 42, 557-562	3.2	28
20	Development, characterization, and applications of multi-material stereolithography bioprinting. <i>Scientific Reports</i> , 2021 , 11, 3171	4.9	27
19	Elucidating the role of graft compliance mismatch on intimal hyperplasia using an ex vivo organ culture model. <i>Acta Biomaterialia</i> , 2019 , 89, 84-94	10.8	22
18	Disturbed flow disrupts the blood-brain barrier in a 3D bifurcation model. <i>Biofabrication</i> , 2020 , 12, 025020.5	20.5	20
17	Three dimensional model for surgical planning in resection of thoracic tumors. <i>International Journal of Surgery Case Reports</i> , 2015 , 16, 127-9	0.8	19
16	Ultrahigh-throughput Generation and Characterization of Cellular Aggregates in Laser-ablated Microwells of Poly(dimethylsiloxane). <i>RSC Advances</i> , 2016 , 6, 8980-8991	3.7	18
15	A novel ex vivo tumor system identifies Src-mediated invasion and metastasis in mesenchymal tumor cells in non-small cell lung cancer. <i>Scientific Reports</i> , 2019 , 9, 4819	4.9	14
14	Engineering Escherichia coli for light-activated cytolysis of mammalian cells. <i>ACS Synthetic Biology</i> , 2014 , 3, 944-8	5.7	11

13	Thermofluidic heat exchangers for actuation of transcription in artificial tissues. <i>Science Advances</i> , 2020 , 6,	14.3	10
12	Perfusion and endothelialization of engineered tissues with patterned vascular networks. <i>Nature Protocols</i> , 2021 , 16, 3089-3113	18.8	7
11	Bioinks for Three-Dimensional Printing in Regenerative Medicine 2019 , 805-830		3
10	Contextual cues from cancer cells govern cancer-associated fibroblast heterogeneity. <i>Cell Reports</i> , 2021 , 35, 109009	10.6	3
9	Projection-based stereolithography for direct 3D printing of heterogeneous ultrasound phantoms. <i>PLoS ONE</i> , 2021 , 16, e0260737	3.7	2
8	Micropatterning: Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography (Adv. Funct. Mater. 15/2011). <i>Advanced Functional Materials</i> , 2011 , 21, 2798-2798	15.6	1
7	Blood Flow Within Bioengineered 3D Printed Vascular Constructs Using the Porcine Model. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 629313	5.4	1
6	Vascular Networks Within 3D Printed and Engineered Tissues 2018 , 79-105		1
5	3D Printing and Patterning Vasculature in Engineered Tissues 2015 , 171-189		
4	Rapid Prototyping of Hydrogels to Guide Tissue Formation 2008 , 49-65		
3	Vascular Networks Within 3D Printed and Engineered Tissues 2017 , 1-27		
2	Rapid fabrication of hydrogel micropatterns by projection stereolithography for studying self-organized developmental patterning. <i>PLoS ONE</i> , 2021 , 16, e0245634	3.7	
1	3D Printing and Patterning Vasculature in Engineered Tissues 2015 , 267-285		