Liliang Ouyang

List of Publications by Citations

42 papers	2,588 citations	22 h-index	48 g-index
48 ext. papers	3,242 ext. citations	9 avg, IF	5.6 L-index

#	Paper	IF	Citations
42	Effect of bioink properties on printability and cell viability for 3D bioplotting of embryonic stem cells. *Biofabrication*, **2016**, 8, 035020	10.5	400
41	3D Printing of Shear-Thinning Hyaluronic Acid Hydrogels with Secondary Cross-Linking. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1743-1751	5.5	365
40	Three-dimensional printing of Hela cells for cervical tumor model in vitro. *Biofabrication*, **2014**, 6, 035001	10.5	321
39	A Generalizable Strategy for the 3D Bioprinting of Hydrogels from Nonviscous Photo-crosslinkable Inks. *Advanced Materials*, **2017**, 29, 1604983	24	310
38	The influence of printing parameters on cell survival rate and printability in microextrusion-based 3D cell printing technology. *Biofabrication*, **2015**, 7, 045002	10.5	181
37	Three-dimensional in vitro cancer models: a short review. *Biofabrication*, **2014**, 6, 022001	10.5	101
36	Three-dimensional bioprinting of embryonic stem cells directs highly uniform embryoid body formation. *Biofabrication*, **2015**, 7, 044101	10.5	96
35	Alginate and alginate/gelatin microspheres for human adipose-derived stem cell encapsulation and differentiation. *Biofabrication*, **2012**, 4, 025007	10.5	95
34	3D printing of HEK 293FT cell-laden hydrogel into macroporous constructs with high cell viability and normal biological functions. *Biofabrication*, **2015**, 7, 015010	10.5	77
33	In Vitro Angiogenesis of 3D Tissue Engineered Adipose Tissue. *Journal of Bioactive and Compatible Polymers*, **2009**, 24, 5-24	2	72
32	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. *Science Advances*, **2020**, 6,	14.3	56
31	Void-free 3D Bioprinting for In-situ Endothelialization and Microfluidic Perfusion. *Advanced Functional Materials*, **2020**, 30, 1908349	15.6	50
30	Mechanical characterization of bioprinted in vitro soft tissue models. *Biofabrication*, **2013**, 5, 045010	10.5	49
29	3D printing of photocurable poly(glycerol sebacate) elastomers. *Biofabrication*, **2016**, 8, 045004	10.5	46
28	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. *Trends in Biotechnology*, **2021**, 39, 150-164	15.1	37
27	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. *Advanced Materials*, **2019**, 31, e1900291	24	36
26	Biomimetic injectable HUVEC-adipocytes/collagen/alginate microsphere co-cultures for adipose tissue engineering. *Biotechnology and Bioengineering*, **2013**, 110, 1430-43	4.9	35

25	Norbornene-modified poly(glycerol sebacate) as a photocurable and biodegradable elastomer. *Polymer Chemistry*, **2017**, 8, 5091-5099	4.9	31
24	Assembling Living Building Blocks to Engineer Complex Tissues. *Advanced Functional Materials*, **2020**, 30, 1909009	15.6	31
23	3D printing human induced pluripotent stem cells with novel hydroxypropyl chitin bioink: scalable expansion and uniform aggregation. *Biofabrication*, **2018**, 10, 044101	10.5	30
22	Facile Biofabrication of Heterogeneous Multilayer Tubular Hydrogels by Fast Diffusion-Induced Gelation. *ACS Applied Materials & Interfaces*, **2018**, 10, 12424-12430	9.5	28
21	Bioprinting of Stem Cells: Interplay of Bioprinting Process, Bioinks, and Stem Cell Properties. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3108-3124	5.5	23
20	Engineering-derived approaches for iPSC preparation, expansion, differentiation and applications. *Biofabrication*, **2017**, 9, 032001	10.5	16
19	Stem Cells: Hepatic Differentiation of Human Embryonic Stem Cells as Microscaled Multilayered Colonies Leading to Enhanced Homogeneity and Maturation (Small 21/2014). *Small*, **2014**, 10, 4310-4310	11	16
18	An integrated cell printing system for the construction of heterogeneous tissue models. *Acta Biomaterialia*, **2019**, 95, 245-257	10.8	14
17	Biomaterial-assisted scalable cell production for cell therapy. *Biomaterials*, **2020**, 230, 119627	15.6	12
16	Modeling on Microdroplet Formation for Cell Printing Based on Alternating Viscous-Inertial Force Jetting. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2017**, 139,	3.3	9
15	Optimizing Bifurcated Channels within an Anisotropic Scaffold for Engineering Vascularized Oriented Tissues. *Advanced Healthcare Materials*, **2020**, 9, e2000782	10.1	9
14	Responsive biomaterials for 3D bioprinting: A review. *Materials Today*, **2022**,	21.8	8
13	Review of emerging nanotechnology in bone regeneration: progress, challenges, and perspectives. *Nanoscale*, **2021**, 13, 10266-10280	7.7	8
12	Three-Dimensional Printing of Hydrogel Scaffolds with Hierarchical Structure for Scalable Stem Cell Culture. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2995-3004	5.5	5
11	3D Bioprinting of Multifunctional Dynamic Nanocomposite Bioinks Incorporating Cu-Doped Mesoporous Bioactive Glass Nanoparticles for Bone Tissue Engineering.. *Small*, **2022**, e2104996	11	5
10	Study on Microextrusion-based 3D Bioprinting and Bioink Crosslinking Mechanisms. *Springer Theses* , **2019**,	0.1	4
9	Review on biofabrication and applications of heterogeneous tumor models. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 2101-2120	4.4	2
8	Tunable Microgel-Templated Porogel (MTP) Bioink for 3D Bioprinting Applications.. *Advanced Healthcare Materials*, **2022**, e2200027	10.1	2

7	3D Bioprinting of Thermal-Sensitive Bioink. *Springer Theses*, **2019**, 63-80	0.1	1
6	3D Bioprinting and Bioink: Background. *Springer Theses*, **2019**, 7-23	0.1	1
5	Biological Characterization and Applications. *Springer Theses*, **2019**, 105-125	0.1	1
4	Roadmap for Additive Manufacturing: Toward Intellectualization and Industrialization **2022**, 1, 100014		1
3	Advances in 3D Bioprinting **2022**, 1, 100011		0
2	3D Bioprinting of Non-viscous Bioink. *Springer Theses*, **2019**, 81-104	0.1	
1	3D Bioprinting of Shear-Thinning Self-assembly Bioink. *Springer Theses*, **2019**, 43-61	0.1	