Zhengyi Zhang

List of Publications by Year
in descending order

22 papers	1,146 citations	471509 17 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	1148 citing authors

#	Article	IF	Citations
1	Freeform inkjet printing of cellular structures with bifurcations. Biotechnology and Bioengineering, 2015, 112, 1047-1055.	3.3	276
2	Freeform drop-on-demand laser printing of 3D alginate and cellular constructs. Biofabrication, 2015, 7, 045011.	7.1	138
3	Evaluation of bioink printability for bioprinting applications. Applied Physics Reviews, 2018, 5, .	11.3	129
4	Time-Resolved Imaging Study of Jetting Dynamics during Laser Printing of Viscoelastic Alginate Solutions. Langmuir, 2015, 31, 6447-6456.	3.5	76
5	Study of gelatin as an effective energy absorbing layer for laser bioprinting. Biofabrication, 2017, 9, 024103.	7.1	50
6	Biofabrication of three-dimensional cellular structures based on gelatin methacrylateâ€“alginate interpenetrating network hydrogel. Journal of Biomaterials Applications, 2019, 33, 1105-1117.	2.4	50
7	Study of Impingement Types and Printing Quality during Laser Printing of Viscoelastic Alginate Solutions. Langmuir, 2016, 32, 3004-3014.	3.5	49
8	Freeform Vertical and Horizontal Fabrication of Alginate-Based Vascular-Like Tubular Constructs Using Inkjetting. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	2.2	46
9	Effects of living cells on the bioink printability during laser printing. Biomicrofluidics, 2017, 11, 034120.	2.4	41
10	Predictive compensation-enabled horizontal inkjet printing of alginate tubular constructs. Manufacturing Letters, 2013, 1, 28-32.	2.2	37
11	Printing-induced cell injury evaluation during laser printing of 3T3 mouse fibroblasts. Biofabrication, 2017, 9, 025038.	7.1	36
12	Identification of optimal printing conditions for laser printing of alginate tubular constructs. Journal of Manufacturing Processes, 2015, 20, 450-455.	5.9	35
13	Biofabrication of 3D cell-encapsulated tubular constructs using dynamic optical projection stereolithography. Journal of Materials Science: Materials in Medicine, 2019, 30, 36.	3.6	34
14	Study of Pinch-Off Locations during Drop-on-Demand Inkjet Printing of Viscoelastic Alginate Solutions. Langmuir, 2017, 33, 5037-5045.	3.5	32
15	Sedimentation study of bioink containing living cells. Journal of Applied Physics, 2019, 125, .	2.5	30
16	Ligament flow during drop-on-demand inkjet printing of bioink containing living cells. Journal of Applied Physics, 2017, 121, .	2.5	25
17	Guided cell migration on a graded micropillar substrate. Bio-Design and Manufacturing, 2020, 3, 60-70.	7.7	20
18	Bubble Formation Modeling During Laser Direct Writing of Glycerol Solutions. Journal of Micro and Nano-Manufacturing, 2015, 3, .	0.7	17

#	Article	IF	Citations
19	Cell sedimentation during 3D bioprinting: a mini review. Bio-Design and Manufacturing, 2022, 5, 617-626.	7.7	15
20	Deformation Compensation During Buoyancy-Enabled Inkjet Printing of Three-Dimensional Soft Tubular Structures. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	5
21	Phase Diagram of Pinch-off Behaviors During Drop-on-Demand Inkjetting of Alginate Solutions. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	5
22	Effect of topography parameters on cellular morphology during guided cell migration on a graded micropillar surface. Acta of Bioengineering and Biomechanics, 2021, 23, 147-157.	0.4	0