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	Cell sedimentation during 3D bioprinting: a mini review. Bio-Design and Manufacturing, 2022, 5, 617-626.	7.7	15
2	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
3	Guided cell migration on a graded micropillar substrate. Bio-Design and Manufacturing, 2020, 3, 60-70.	7.7	20
4	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
5	Sedimentation study of bioink containing living cells. Journal of Applied Physics, 2019, 125, .	2.5	30
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	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
8	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
9	Evaluation of bioink printability for bioprinting applications. Applied Physics Reviews, 2018, 5, .	11.3	129
10	Study of Pinch-Off Locations during Drop-on-Demand Inkjet Printing of Viscoelastic Alginate Solutions. Langmuir, 2017, 33, 5037-5045.	3.5	32
11	Effects of living cells on the bioink printability during laser printing. Biomicrofluidics, 2017, 11, 034120.	2.4	41
12	Study of gelatin as an effective energy absorbing layer for laser bioprinting. Biofabrication, 2017, 9, 024103.	7.1	50
13	Ligament flow during drop-on-demand inkjet printing of bioink containing living cells. Journal of Applied Physics, 2017, 121, .	2.5	25
14	Printing-induced cell injury evaluation during laser printing of 3T3 mouse fibroblasts. Biofabrication, 2017, 9, 025038.	7.1	36
15	Study of Impingement Types and Printing Quality during Laser Printing of Viscoelastic Alginate Solutions. Langmuir, 2016, 32, 3004-3014.	3.5	49
16	Identification of optimal printing conditions for laser printing of alginate tubular constructs. Journal of Manufacturing Processes, 2015, 20, 450-455.	5.9	35
17	Bubble Formation Modeling During Laser Direct Writing of Glycerol Solutions. Journal of Micro and Nano-Manufacturing, 2015, 3, .	0.7	17
18	Freeform drop-on-demand laser printing of 3D alginate and cellular constructs. Biofabrication, 2015, 7, 045011.	7.1	138

#	Article	IF	Citations
19	Time-Resolved Imaging Study of Jetting Dynamics during Laser Printing of Viscoelastic Alginate Solutions. Langmuir, 2015, 31, 6447-6456.	3.5	76
20	Freeform inkjet printing of cellular structures with bifurcations. Biotechnology and Bioengineering, 2015, 112, 1047-1055.	3.3	276
21	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
22	Predictive compensation-enabled horizontal inkjet printing of alginate tubular constructs. Manufacturing Letters, 2013, 1, 28-32.	2.2	37