

Changxue Xu

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,911
citations

304743

22
h-index

361022

35
g-index

38
all docs

38
docs citations

38
times ranked

2084
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaffold-free inkjet printing of three-dimensional zigzag cellular tubes. <i>Biotechnology and Bioengineering</i> , 2012, 109, 3152-3160.	3.3	310
2	Freeform inkjet printing of cellular structures with bifurcations. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1047-1055.	3.3	276
3	Digital light processing (DLP) 3D-printing technology and photoreactive polymers in fabrication of modified-release tablets. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 135, 60-67.	4.0	158
4	Study of Droplet Formation Process during Drop-on-Demand Inkjetting of Living Cell-Laden Bioink. <i>Langmuir</i> , 2014, 30, 9130-9138.	3.5	144
5	Evaluation of bioink printability for bioprinting applications. <i>Applied Physics Reviews</i> , 2018, 5, .	11.3	129
6	Multi-purposable filaments of HPMC for 3D printing of medications with tailored drug release and timed-absorption. <i>International Journal of Pharmaceutics</i> , 2018, 544, 285-296.	5.2	112
7	Effects of Irgacure 2959 and lithium phenyl-2,4,6-trimethylbenzoylphosphinate on cell viability, physical properties, and microstructure in 3D bioprinting of vascular-like constructs. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055021.	3.3	69
8	3D Printing Hierarchical Silver Nanowire Aerogel with Highly Compressive Resilience and Tensile Elongation through Tunable Poisson's Ratio. <i>Small</i> , 2017, 13, 1701756.	10.0	68
9	Predictive Modeling of Droplet Formation Processes in Inkjet-Based Bioprinting. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	56
10	Effects of Encapsulated Cells on the Physical-Mechanical Properties and Microstructure of Gelatin Methacrylate Hydrogels. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5061.	4.1	52
11	Biofabrication of three-dimensional cellular structures based on gelatin methacrylate-alginate interpenetrating network hydrogel. <i>Journal of Biomaterials Applications</i> , 2019, 33, 1105-1117.	2.4	50
12	Freeform Vertical and Horizontal Fabrication of Alginate-Based Vascular-Like Tubular Constructs Using Inkjetting. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014, 136, .	2.2	46
13	Effects of living cells on the bioink printability during laser printing. <i>Biomicrofluidics</i> , 2017, 11, 034120.	2.4	41
14	Predictive compensation-enabled horizontal inkjet printing of alginate tubular constructs. <i>Manufacturing Letters</i> , 2013, 1, 28-32.	2.2	37
15	Biofabrication of 3D cell-encapsulated tubular constructs using dynamic optical projection stereolithography. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 36.	3.6	34
16	Effects of fluid properties and laser fluence on jet formation during laser direct writing of glycerol solution. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	33
17	Study of Pinch-Off Locations during Drop-on-Demand Inkjet Printing of Viscoelastic Alginate Solutions. <i>Langmuir</i> , 2017, 33, 5037-5045.	3.5	32
18	Sedimentation study of bioink containing living cells. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	30

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19	Investigation of gelatin methacrylate working curves in dynamic optical projection stereolithography of vascular-like constructs. <i>European Polymer Journal</i> , 2020, 124, 109487.	5.4	30
20	Effects of printing conditions on cell distribution within microspheres during inkjet-based bioprinting. <i>AIP Advances</i> , 2019, 9, 095055.	1.3	26
21	Prediction of cell viability in dynamic optical projection stereolithography-based bioprinting using machine learning. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 995-1005.	7.3	26
22	Ligament flow during drop-on-demand inkjet printing of bioink containing living cells. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	25
23	Synthesis of long-chain fatty acid starch esters in aqueous medium and its characterization. <i>European Polymer Journal</i> , 2019, 119, 136-147.	5.4	21
24	Guided cell migration on a graded micropillar substrate. <i>Bio-Design and Manufacturing</i> , 2020, 3, 60-70.	7.7	20
25	Electric field-assisted droplet formation using piezoactuation-based drop-on-demand inkjet printing. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 115011.	2.6	16
26	Cell sedimentation during 3D bioprinting: a mini review. <i>Bio-Design and Manufacturing</i> , 2022, 5, 617-626.	7.7	15
27	An experimental evaluation of impact force on a fiber Bragg grating-based device for debris flow warning. <i>Landslides</i> , 2019, 16, 65-73.	5.4	10
28	Model test: Infrasonic features of porous soil masses as applied to landslide monitoring. <i>Engineering Geology</i> , 2020, 265, 105454.	6.3	9
29	Investigation and Characterization of Cell Aggregation During and After Inkjet-Based Bioprinting of Cell-Laden Bioink. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2022, 144, .	2.2	8
30	Effects of Corona Treatment on Cellular Attachment and Morphology on Polydimethylsiloxane Micropillar Substrates. <i>Jom</i> , 2022, 74, 3408-3418.	1.9	6
31	Deformation Compensation During Buoyancy-Enabled Inkjet Printing of Three-Dimensional Soft Tubular Structures. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	5
32	Phase Diagram of Pinch-off Behaviors During Drop-on-Demand Inkjetting of Alginate Solutions. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	2.2	5
33	Investigation of Cell Concentration Change and Cell Aggregation Due to Cell Sedimentation during Inkjet-Based Bioprinting of Cell-Laden Bioink. <i>Machines</i> , 2022, 10, 315.	2.2	5
34	Theoretical and experimental study on three-layered polymeric balloon catheter processing. <i>Polymer Engineering and Science</i> , 2020, 60, 3244-3257.	3.1	3
35	Predictive Modeling of Droplet Velocity and Size in Inkjet-Based Bioprinting. , 2018, , .		2
36	Effect of hyperbranched poly(trimellitic glyceride) paired with different metal ions on the physicochemical properties of starch. <i>Food Chemistry</i> , 2020, 311, 125899.	8.2	2

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37	Metallic Aerogels: 3D Printing Hierarchical Silver Nanowire Aerogel with Highly Compressive Resilience and Tensile Elongation through Tunable Poisson's Ratio (Small 38/2017). Small, 2017, 13, .	10.0	0
38	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