Yong He

List of Publications by Year in Descending Order

140 papers	4,850 citations	39 h-index	64 g-index
150 ext. papers	6,212 ext. citations	6.4 avg, IF	6.3 L-index

#	Paper	IF	Citations
140	Large Scale Tissues Bioprinting **2022**, 257-280		
139	3D Printing of In Vitro Models **2022**, 311-337		
138	Direct Ink Writing for 3D Bioprinting Applications **2022**, 113-147		
137	Bioprinting Approaches of Hydrogel Microgel **2022**, 179-212		
136	3D Printing of Vascular Chips **2022**, 281-309		
135	3D Bioprinting, A Powerful Tool for 3D Cells Assembling **2022**, 1-10		
134	Representative 3D Bioprinting Approaches **2022**, 11-45		
133	Microfiber-Based Organoids Bioprinting for In Vitro Model **2022**, 237-256		
132	Printability during projection-based 3D bioprinting.. *Bioactive Materials*, **2022**, 11, 254-267	16.7	6
131	Integration of three-dimensional printing and microfluidics **2022**, 385-406		0
130	Balancing the customization and standardization: exploration and layout surrounding the regulation of the growing field of 3D-printed medical devices in China.. *Bio-Design and Manufacturing*, **2022**, 1-27	4.7	1
129	Establishment and optimization of temperature compensation model for benzoic acid detection based on terahertz metamaterial. *Infrared Physics and Technology*, **2022**, 104101	2.7	0
128	Coaxial 3 D Bioprinting **2022**, 69-88		
127	Biomedical Applications of Microgels **2022**, 213-235		
126	3D Cell Culture□an It Be As Popular as 2D Cell Culture?. *Advanced NanoBiomed Research*, **2021**, 1, 2000066	6.6	2
125	A flexible porous chiral auxetic tracheal stent with ciliated epithelium. *Acta Biomaterialia*, **2021**, 124, 153-165	10.8	9
124	Research on Enhanced Detection of Benzoic Acid Additives in Liquid Food Based on Terahertz Metamaterial Devices. *Sensors*, **2021**, 21,	3.8	1

123	Fabrication of multi-scale and tunable auxetic scaffolds for tissue engineering. *Materials and Design* , **2021**, 197, 109277	8.1	15
122	Modeling the printability of photocuring and strength adjustable hydrogel bioink during projection-based 3D bioprinting. *Biofabrication*, **2021**, 13,	10.5	19
121	3D printed high-resolution scaffold with hydrogel microfibers for providing excellent biocompatibility. *Journal of Biomaterials Applications*, **2021**, 35, 633-642	2.9	0
120	Lightweight 3D bioprinting with point by point photocuring. *Bioactive Materials*, **2021**, 6, 1402-1412	16.7	7
119	Facile 3D cell culture protocol based on photocurable hydrogels. *Bio-Design and Manufacturing*, **2021**, 4, 149-153	4.7	6
118	Recyclable conductive nanoclay for direct in situ printing flexible electronics. *Materials Horizons*, **2021**, 8, 2006-2017	14.4	15
117	Biodegradable intramedullary nail (BIN) with high-strength bioceramics for bone fracture. *Journal of Materials Chemistry B*, **2021**, 9, 969-982	7.3	1
116	Self-sintering liquid metal ink with LAPONITE for flexible electronics. *Journal of Materials Chemistry C*, **2021**, 9, 3070-3080	7.1	8
115	Peripheral Nerve Regeneration with 3D Printed Bionic Scaffolds Loading Neural Crest Stem Cell Derived Schwann Cell Progenitors. *Advanced Functional Materials*, **2021**, 31, 2010215	15.6	6
114	3D Printing of Physical Organ Models: Recent Developments and Challenges. *Advanced Science*, **2021**, 8, e2101394	13.6	15
113	Directly coaxial 3D bioprinting of large-scale vascularized tissue constructs. *Biofabrication*, **2020**, 12, 035014	10.5	45
112	Axial-Circular Magnetic Levitation: A Three-Dimensional Density Measurement and Manipulation Approach. *Analytical Chemistry*, **2020**, 92, 6925-6931	7.8	13
111	Grafting of 3D Bioprinting to In Vitro Drug Screening: A Review. *Advanced Healthcare Materials*, **2020**, 9, e1901773	10.1	36
110	4D Printing of High-Performance Thermal-Responsive Liquid Metal Elastomers Driven by Embedded Microliquid Chambers. *ACS Applied Materials & Interfaces*, **2020**, 12, 12068-12074	9.5	22
109	Sacrificial microgel-laden bioink-enabled 3D bioprinting of mesoscale pore networks. *Bio-Design and Manufacturing*, **2020**, 3, 30-39	4.7	32
108	Cell-modified bioprinted microspheres for vascular regeneration. *Materials Science and Engineering C*, **2020**, 112, 110896	8.3	5
107	On the Investigation of Surface Integrity of Ti6Al4V ELI Using Si-Mixed Electric Discharge Machining. *Materials*, **2020**, 13,	3.5	32
106	3D printing of gelatin methacrylate-based nerve guidance conduits with multiple channels. *Materials and Design*, **2020**, 192, 108757	8.1	39

105	A Review of 3D Printing Technologies for Soft Polymer Materials. *Advanced Functional Materials*, **2020**, 30, 2000187	15.6	148
104	Bioprinting of novel 3D tumor array chip for drug screening. *Bio-Design and Manufacturing*, **2020**, 3, 175-188	4.7	16
103	Curved profiles machining of Ti6Al4V alloy through WEDM: investigations on geometrical errors. *Journal of Materials Research and Technology*, **2020**, 9, 16186-16201	5.5	14
102	GDF5-GelMA injectable microspheres laden with adipose-derived stem cells for disc degeneration repair. *Biofabrication*, **2020**,	10.5	15
101	Micro/nanofabrication of brittle hydrogels using 3D printed soft ultrafine fiber molds for damage-free demolding. *Biofabrication*, **2020**, 12, 025015	10.5	18
100	Synchronous 3D Bioprinting of Large-Scale Cell-Laden Constructs with Nutrient Networks. *Advanced Healthcare Materials*, **2020**, 9, e1901142	10.1	30
99	Development of 3D bioprinting: From printing methods to biomedical applications. *Asian Journal of Pharmaceutical Sciences*, **2020**, 15, 529-557	9	102
98	Metastasis-on-a-chip mimicking the progression of kidney cancer in the liver for predicting treatment efficacy. *Theranostics*, **2020**, 10, 300-311	12.1	35
97	Optimization of quantitative detection model for benzoic acid in wheat flour based on CARS variable selection and THz spectroscopy. *Journal of Food Measurement and Characterization*, **2020**, 14, 2549-2558	2.8	13
96	Coaxial 3D bioprinting of organ prototyps from nutrients delivery to vascularization. *Journal of Zhejiang University: Science A*, **2020**, 21, 859-875	2.1	4
95	Self-Adaptive All-In-One Delivery Chip for Rapid Skin Nerves Regeneration by Endogenous Mesenchymal Stem Cells. *Advanced Functional Materials*, **2020**, 30, 2001751	15.6	18
94	3D printing of high-strength chitosan hydrogel scaffolds without any organic solvents. *Biomaterials Science*, **2020**, 8, 5020-5028	7.4	28
93	Hydrogels: The Next Generation Body Materials for Microfluidic Chips?. *Small*, **2020**, 16, e2003797	11	22
92	3D printed multi-scale scaffolds with ultrafine fibers for providing excellent biocompatibility. *Materials Science and Engineering C*, **2020**, 107, 110269	8.3	24
91	All-Printed Flexible and Stretchable Electronics with Pressing or Freezing Activatable Liquid-Metal–Silicone Inks. *Advanced Functional Materials*, **2020**, 30, 1906683	15.6	92
90	Fabrication of heterogeneous scaffolds using melt electrospinning writing: Design and optimization. *Materials and Design*, **2020**, 185, 108274	8.1	27
89	Construction of multi-scale vascular chips and modelling of the interaction between tumours and blood vessels. *Materials Horizons*, **2020**, 7, 82-92	14.4	29
88	A bioartificial liver support system integrated with a DLM/GelMA-based bioengineered whole liver for prevention of hepatic encephalopathy via enhanced ammonia reduction. *Biomaterials Science*, **2020**, 8, 2814-2824	7.4	10

87	Multimaterial 3D Printing of Highly Stretchable Silicone Elastomers. *ACS Applied Materials & Interfaces*, **2019**, 11, 23573-23583	9.5	79
86	3D printing of complex GelMA-based scaffolds with nanoclay. *Biofabrication*, **2019**, 11, 035006	10.5	95
85	Bioprinting of Cell-Laden Microfiber: Can It Become a Standard Product?. *Advanced Healthcare Materials*, **2019**, 8, e1900014	10.1	31
84	Engineering three-dimensional microenvironments towards in vitro disease models of the central nervous system. *Biofabrication*, **2019**, 11, 032003	10.5	22
83	Variable bead width of material extrusion-based additive manufacturing. *Journal of Zhejiang University: Science A*, **2019**, 20, 73-82	2.1	3
82	Structure-induced cell growth by 3D printing of heterogeneous scaffolds with ultrafine fibers. *Materials and Design*, **2019**, 181, 108092	8.1	49
81	3D biofabrication of microfiber-laden minispheroids: a facile 3D cell co-culturing system. *Biomaterials Science*, **2019**, 8, 109-117	7.4	12
80	Rapid assembling organ prototypes with controllable cell-laden multi-scale sheets. *Bio-Design and Manufacturing*, **2019**, 2, 1-9	4.7	16
79	Extracellular recordings of bionic engineered cardiac tissue based on a porous scaffold and microelectrode arrays. *Analytical Methods*, **2019**, 11, 5872-5879	3.2	9
78	Protocols of 3D Bioprinting of Gelatin Methacryloyl Hydrogel Based Bioinks. *Journal of Visualized Experiments*, **2019**,	1.6	7
77	Electro-Assisted Bioprinting of Low-Concentration GelMA Microdroplets. *Small*, **2019**, 15, e1804216	11	55
76	Graft protection of the liver by hypothermic machine perfusion involves recovery of graft regeneration in rats. *Journal of International Medical Research*, **2019**, 47, 427-437	1.4	2
75	3D printed Lego-like modular microfluidic devices based on capillary driving. *Biofabrication*, **2018**, 10, 035001	10.5	47
74	Partial Inhibition of HO-1 Attenuates HMP-Induced Hepatic Regeneration against Liver Injury in Rats. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 9108483	6.7	6
73	Fabrication of electrospun nanofibrous scaffolds with 3D controllable geometric shapes. *Materials and Design*, **2018**, 157, 159-169	8.1	48
72	Research on the electrospun foaming process to fabricate three-dimensional tissue engineering scaffolds. *Journal of Applied Polymer Science*, **2018**, 135, 46898	2.9	16
71	Airflow-Assisted 3D Bioprinting of Human Heterogeneous Microspheroidal Organoids with Microfluidic Nozzle. *Small*, **2018**, 14, e1802630	11	51
70	Three-Dimensional Printed Wearable Sensors with Liquid Metals for Detecting the Pose of Snakelike Soft Robots. *ACS Applied Materials & Interfaces*, **2018**, 10, 23208-23217	9.5	67

69	Optimal immunosuppressor induces stable gut microbiota after liver transplantation. *World Journal of Gastroenterology*, **2018**, 24, 3871-3883	5.6	13
68	Inclined layer printing for fused deposition modeling without assisted supporting structure. *Robotics and Computer-Integrated Manufacturing*, **2018**, 51, 1-13	9.2	28
67	Galectin-1-induced tolerogenic dendritic cells combined with apoptotic lymphocytes prolong liver allograft survival. *International Immunopharmacology*, **2018**, 65, 470-482	5.8	9
66	Fiber-Based Mini Tissue with Morphology-Controllable GelMA Microfibers. *Small*, **2018**, 14, e1802187	11	86
65	Vessel-on-a-chip with Hydrogel-based Microfluidics. *Small*, **2018**, 14, e1802368	11	81
64	Three-Dimensional Coprinting of Liquid Metals for Directly Fabricating Stretchable Electronics. *3D Printing and Additive Manufacturing*, **2018**, 5, 195-203	4	18
63	3D printing and coating to fabricate a hollow bullet-shaped implant with porous surface for controlled cytoxan release. *International Journal of Pharmaceutics*, **2018**, 552, 91-98	6.5	16
62	Single-Ring Magnetic Levitation Configuration for Object Manipulation and Density-Based Measurement. *Analytical Chemistry*, **2018**, 90, 9226-9233	7.8	48
61	3D Bioprinting of Vessel-like Structures with Multilevel Fluidic Channels. *ACS Biomaterials Science and Engineering*, **2017**, 3, 399-408	5.5	132
60	An optimization approach for path planning of high-quality and uniform additive manufacturing. *International Journal of Advanced Manufacturing Technology*, **2017**, 92, 651-662	3.2	24
59	From Microfluidic Paper-Based Analytical Devices to Paper-Based Biofluidics with Integrated Continuous Perfusion. *ACS Biomaterials Science and Engineering*, **2017**, 3, 601-607	5.5	14
58	Effect of microstructure evolution on chip formation and fracture during high-speed cutting of single phase metals. *International Journal of Advanced Manufacturing Technology*, **2017**, 91, 823-833	3.2	9
57	Fabrication of cerebral aneurysm simulator with a desktop 3D printer. *Scientific Reports*, **2017**, 7, 44301	4.9	29
56	Optimization of process planning for reducing material consumption in additive manufacturing. *Journal of Manufacturing Systems*, **2017**, 44, 65-78	9.1	38
55	Shrinkage in UV-Curable Coatings **2017**, 195-223		5
54	A non-retraction path planning approach for extrusion-based additive manufacturing. *Robotics and Computer-Integrated Manufacturing*, **2017**, 48, 132-144	9.2	48
53	Modeling and process planning for curved layer fused deposition. *International Journal of Advanced Manufacturing Technology*, **2017**, 91, 273-285	3.2	45
52	A novel path planning methodology for extrusion-based additive manufacturing of thin-walled parts. *International Journal of Computer Integrated Manufacturing*, **2017**, 30, 1301-1315	4.3	28

51	Bone regeneration in 3D printing bioactive ceramic scaffolds with improved tissue/material interface pore architecture in thin-wall bone defect. *Biofabrication*, **2017**, 9, 025003	10.5	97
50	3D robocasting magnesium-doped wollastonite/TCP bioceramic scaffolds with improved bone regeneration capacity in critical sized calvarial defects. *Journal of Materials Chemistry B*, **2017**, 5, 2941-2951	7.3	35
49	Printing@Clinic: From Medical Models to Organ Implants. *ACS Biomaterials Science and Engineering*, **2017**, 3, 3083-3097	5.5	16
48	Rapid Customization of 3D Integrated Microfluidic Chips via Modular Structure-Based Design. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2606-2616	5.5	20
47	Facial fabrication of paper-based flexible electronics with flash foam stamp lithography. *Microsystem Technologies*, **2017**, 23, 4419-4426	1.7	12
46	Fabrication of shape controllable alginate microparticles based on drop-on-demand jetting. *Journal of Sol-Gel Science and Technology*, **2016**, 77, 610-619	2.3	24
45	Simultaneous mechanical property and biodegradation improvement of wollastonite bioceramic through magnesium dilute doping. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 54, 60-71	4.1	48
44	3D Printing Surgical Implants at the clinic: A Experimental Study on Anterior Cruciate Ligament Reconstruction. *Scientific Reports*, **2016**, 6, 21704	4.9	71
43	Systematical Evaluation of Mechanically Strong 3D Printed Diluted magnesium Doping Wollastonite Scaffolds on Osteogenic Capacity in Rabbit Calvarial Defects. *Scientific Reports*, **2016**, 6, 34029	4.9	40
42	Research on the printability of hydrogels in 3D bioprinting. *Scientific Reports*, **2016**, 6, 29977	4.9	326
41	Process Planning for the Fuse Deposition Modeling of Ankle-Foot-Othoses. *Procedia CIRP*, **2016**, 42, 760-765	1.8	28
40	3D printing magnesium-doped wollastonite/β-TCP bioceramics scaffolds with high strength and adjustable degradation. *Journal of the European Ceramic Society*, **2016**, 36, 1495-1503	6	68
39	3D Printed Paper-Based Microfluidic Analytical Devices. *Micromachines*, **2016**, 7,	3.3	45
38	Developments of 3D Printing Microfluidics and Applications in Chemistry and Biology: a Review. *Electroanalysis*, **2016**, 28, 1658-1678	3	179
37	Nonlinear propagation of stress waves during high speed cutting. *Applied Physics Letters*, **2016**, 109, 191904	3.4	5
36	The outstanding mechanical response and bone regeneration capacity of robocast dilute magnesium-doped wollastonite scaffolds in critical size bone defects. *Journal of Materials Chemistry B*, **2016**, 4, 3945-3958	7.3	31
35	A parallel-based path generation method for fused deposition modeling. *International Journal of Advanced Manufacturing Technology*, **2015**, 77, 927-937	3.2	45
34	Printing 3D microfluidic chips with a 3D sugar printer. *Microfluidics and Nanofluidics*, **2015**, 19, 447-456	2.8	66

33	Micro structure fabrication with a simplified hot embossing method. *RSC Advances*, **2015**, 5, 39138-39144	3.7	15
32	Quantitative analysis of surface profile in fused deposition modelling. *Additive Manufacturing*, **2015**, 8, 142-148	6.1	47
31	Fabrication of paper-based microfluidic analysis devices: a review. *RSC Advances*, **2015**, 5, 78109-78127	3.7	139
30	Preparation and Characterization of Low Temperature Heat-Treated 45S5 Bioactive Glass-Ceramic Analogues. *Biomedical Glasses*, **2015**, 1,	2.7	9
29	Rapid fabrication of paper-based microfluidic analytical devices with desktop stereolithography 3D printer. *RSC Advances*, **2015**, 5, 2694-2701	3.7	54
28	Ultrahigh strength of three-dimensional printed diluted magnesium doping wollastonite porous scaffolds. *MRS Communications*, **2015**, 5, 631-639	2.7	34
27	A facile and low-cost micro fabrication material: flash foam. *Scientific Reports*, **2015**, 5, 13522	4.9	10
26	3D-Printed Atsttrin-Incorporated Alginate/Hydroxyapatite Scaffold Promotes Bone Defect Regeneration with TNF/TNFR Signaling Involvement. *Advanced Healthcare Materials*, **2015**, 4, 1701-8	10.1	41
25	Support generation for additive manufacturing based on sliced data. *International Journal of Advanced Manufacturing Technology*, **2015**, 80, 2041-2052	3.2	23
24	Coaxial nozzle-assisted 3D bioprinting with built-in microchannels for nutrients delivery. *Biomaterials*, **2015**, 61, 203-15	15.6	383
23	45S5 Bioglass analogue reinforced akermanite ceramic favorable for additive manufacturing mechanically strong scaffolds. *RSC Advances*, **2015**, 5, 102727-102735	3.7	17
22	Bioactive glass-reinforced bioceramic ink writing scaffolds: sintering, microstructure and mechanical behavior. *Biofabrication*, **2015**, 7, 035010	10.5	46
21	Fabrication of low cost soft tissue prostheses with the desktop 3D printer. *Scientific Reports*, **2014**, 4, 6973	4.9	137
20	A nondestructive online method for monitoring the injection molding process by collecting and analyzing machine running data. *International Journal of Advanced Manufacturing Technology*, **2014**, 72, 765-777	3.2	34
19	Effect of borosilicate glass on the mechanical and biodegradation properties of 45S5-derived bioactive glass-ceramics. *Journal of Non-Crystalline Solids*, **2014**, 405, 91-99	3.9	19
18	Optimization of tool-path generation for material extrusion-based additive manufacturing technology. *Additive Manufacturing*, **2014**, 1-4, 32-47	6.1	82
17	A fine-interpolation-based parametric interpolation method with a novel real-time look-ahead algorithm. *CAD Computer Aided Design*, **2014**, 55, 37-48	2.9	21
16	A low-cost and rapid microfluidic paper-based analytical device fabrication method: flash foam stamp lithography. *RSC Advances*, **2014**, 4, 63860-63865	3.7	29

15	Droplet deviation modeling and compensation scheme of inkjet printing. *International Journal of Advanced Manufacturing Technology*, **2014**, 75, 1405-1415	3.2	8
14	An interpolation method for the open CNC system based on EPM. *International Journal of Advanced Manufacturing Technology*, **2013**, 69, 405-416	3.2	5
13	A robust 2D point-sequence curve offset algorithm with multiple islands for contour-parallel tool path. *CAD Computer Aided Design*, **2013**, 45, 657-670	2.9	42
12	A look-ahead and adaptive speed control algorithm for parametric interpolation. *International Journal of Advanced Manufacturing Technology*, **2013**, 69, 2613-2620	3.2	17
11	An Adaptive Tool Path Generation for Fused Deposition Modeling. *Advanced Materials Research*, **2013**, 819, 7-12	0.5	13
10	Enhanced polymer filling and uniform shrinkage of polymer and mold in a hot embossing process. *Polymer Engineering and Science*, **2013**, 53, 1314-1320	2.3	8
9	On-line Asynchronous Compensation Methods for static/quasi-static error implemented on CNC machine tools. *International Journal of Machine Tools and Manufacture*, **2012**, 60, 14-26	9.4	54
8	Simulation Research on Stress of Polymeric Patterns during Micro Hot Embossing. *Applied Mechanics and Materials*, **2011**, 80-81, 339-345	0.3	1
7	Analysis of pattern height development in hot embossing process. *Microsystem Technologies*, **2009**, 15, 963-968	1.7	1
6	Optimization of control parameters in micro hot embossing. *Microsystem Technologies*, **2008**, 14, 325-329	1.7	26
5	Demolding Defects and the Design of Demolding Device in Micro Hot Embossing Process. *Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering*, **2008**, 44, 53	1.3	4
4	Research on optimization of the hot embossing process. *Journal of Micromechanics and Microengineering*, **2007**, 17, 2420-2425	2	56
3	Recent Progress in 3D Printing of Smart Structures: Classification, Challenges, and Trends. *Advanced Intelligent Systems*,2000271	6	1
2	A Godunov-type discrete element model for elastic-viscoplastic continuum impact problems. *International Journal for Numerical Methods in Engineering*,	2.4	1
1	Projection-based 3D bioprinting for hydrogel scaffold manufacturing. *Bio-Design and Manufacturing*,1	4.7	3