

Yong He

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Coaxial nozzle-assisted 3D bioprinting with built-in microchannels for nutrients delivery. <i>Biomaterials</i> , 2015 , 61, 203-15	15.6	383
139	Research on the printability of hydrogels in 3D bioprinting. <i>Scientific Reports</i> , 2016 , 6, 29977	4.9	326
138	Developments of 3D Printing Microfluidics and Applications in Chemistry and Biology: a Review. <i>Electroanalysis</i> , 2016 , 28, 1658-1678	3	179
137	A Review of 3D Printing Technologies for Soft Polymer Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 2000187	15.6	148
136	Fabrication of paper-based microfluidic analysis devices: a review. <i>RSC Advances</i> , 2015 , 5, 78109-78127	3.7	139
135	Fabrication of low cost soft tissue prostheses with the desktop 3D printer. <i>Scientific Reports</i> , 2014 , 4, 6973	4.9	137
134	3D Bioprinting of Vessel-like Structures with Multilevel Fluidic Channels. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 399-408	5.5	132
133	Development of 3D bioprinting: From printing methods to biomedical applications. <i>Asian Journal of Pharmaceutical Sciences</i> , 2020 , 15, 529-557	9	102
132	Bone regeneration in 3D printing bioactive ceramic scaffolds with improved tissue/material interface pore architecture in thin-wall bone defect. <i>Biofabrication</i> , 2017 , 9, 025003	10.5	97
131	3D printing of complex GelMA-based scaffolds with nanoclay. <i>Biofabrication</i> , 2019 , 11, 035006	10.5	95
130	All-Printed Flexible and Stretchable Electronics with Pressing or Freezing Activatable Liquid-MetalSilicone Inks. <i>Advanced Functional Materials</i> , 2020 , 30, 1906683	15.6	92
129	Fiber-Based Mini Tissue with Morphology-Controllable GelMA Microfibers. <i>Small</i> , 2018 , 14, e1802187	11	86
128	Optimization of tool-path generation for material extrusion-based additive manufacturing technology. <i>Additive Manufacturing</i> , 2014 , 1-4, 32-47	6.1	82
127	Vessel-on-a-chip with Hydrogel-based Microfluidics. <i>Small</i> , 2018 , 14, e1802368	11	81
126	Multimaterial 3D Printing of Highly Stretchable Silicone Elastomers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23573-23583	9.5	79
125	3D Printing Surgical Implants at the clinic: A Experimental Study on Anterior Cruciate Ligament Reconstruction. <i>Scientific Reports</i> , 2016 , 6, 21704	4.9	71
124	3D printing magnesium-doped wollastonite/βTCP bioceramics scaffolds with high strength and adjustable degradation. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1495-1503	6	68

123	Three-Dimensional Printed Wearable Sensors with Liquid Metals for Detecting the Pose of Snakelike Soft Robots. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23208-23217	9.5	67
122	Printing 3D microfluidic chips with a 3D sugar printer. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 447-456	2.8	66
121	Research on optimization of the hot embossing process. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 2420-2425	2	56
120	Electro-Assisted Bioprinting of Low-Concentration GelMA Microdroplets. <i>Small</i> , 2019 , 15, e1804216	11	55
119	Rapid fabrication of paper-based microfluidic analytical devices with desktop stereolithography 3D printer. <i>RSC Advances</i> , 2015 , 5, 2694-2701	3.7	54
118	On-line Asynchronous Compensation Methods for static/quasi-static error implemented on CNC machine tools. <i>International Journal of Machine Tools and Manufacture</i> , 2012 , 60, 14-26	9.4	54
117	Airflow-Assisted 3D Bioprinting of Human Heterogeneous Microspheroidal Organoids with Microfluidic Nozzle. <i>Small</i> , 2018 , 14, e1802630	11	51
116	Structure-induced cell growth by 3D printing of heterogeneous scaffolds with ultrafine fibers. <i>Materials and Design</i> , 2019 , 181, 108092	8.1	49
115	Simultaneous mechanical property and biodegradation improvement of wollastonite bioceramic through magnesium dilute doping. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 54, 60-71	4.1	48
114	A non-retraction path planning approach for extrusion-based additive manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 48, 132-144	9.2	48
113	Fabrication of electrospun nanofibrous scaffolds with 3D controllable geometric shapes. <i>Materials and Design</i> , 2018 , 157, 159-169	8.1	48
112	Single-Ring Magnetic Levitation Configuration for Object Manipulation and Density-Based Measurement. <i>Analytical Chemistry</i> , 2018 , 90, 9226-9233	7.8	48
111	Quantitative analysis of surface profile in fused deposition modelling. <i>Additive Manufacturing</i> , 2015 , 8, 142-148	6.1	47
110	3D printed Lego-like modular microfluidic devices based on capillary driving. <i>Biofabrication</i> , 2018 , 10, 035001	10.5	47
109	Bioactive glass-reinforced bioceramic ink writing scaffolds: sintering, microstructure and mechanical behavior. <i>Biofabrication</i> , 2015 , 7, 035010	10.5	46
108	Modeling and process planning for curved layer fused deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 273-285	3.2	45
107	A parallel-based path generation method for fused deposition modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 77, 927-937	3.2	45
106	Directly coaxial 3D bioprinting of large-scale vascularized tissue constructs. <i>Biofabrication</i> , 2020 , 12, 035014	10.5	45

105	3D Printed Paper-Based Microfluidic Analytical Devices. <i>Micromachines</i> , 2016 , 7,	3.3	45
104	A robust 2D point-sequence curve offset algorithm with multiple islands for contour-parallel tool path. <i>CAD Computer Aided Design</i> , 2013 , 45, 657-670	2.9	42
103	3D-Printed Atsttrin-Incorporated Alginate/Hydroxyapatite Scaffold Promotes Bone Defect Regeneration with TNF/TNFR Signaling Involvement. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1701-8	10.1	41
102	Systematical Evaluation of Mechanically Strong 3D Printed Diluted magnesium Doping Wollastonite Scaffolds on Osteogenic Capacity in Rabbit Calvarial Defects. <i>Scientific Reports</i> , 2016 , 6, 34029	4.9	40
101	3D printing of gelatin methacrylate-based nerve guidance conduits with multiple channels. <i>Materials and Design</i> , 2020 , 192, 108757	8.1	39
100	Optimization of process planning for reducing material consumption in additive manufacturing. <i>Journal of Manufacturing Systems</i> , 2017 , 44, 65-78	9.1	38
99	Grafting of 3D Bioprinting to In Vitro Drug Screening: A Review. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901773	10.1	36
98	3D robocasting magnesium-doped wollastonite/TCP bioceramic scaffolds with improved bone regeneration capacity in critical sized calvarial defects. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2941-2953	7.3	35
97	Metastasis-on-a-chip mimicking the progression of kidney cancer in the liver for predicting treatment efficacy. <i>Theranostics</i> , 2020 , 10, 300-311	12.1	35
96	A nondestructive online method for monitoring the injection molding process by collecting and analyzing machine running data. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 72, 765-777	3.2	34
95	Ultrahigh strength of three-dimensional printed diluted magnesium doping wollastonite porous scaffolds. <i>MRS Communications</i> , 2015 , 5, 631-639	2.7	34
94	Sacrificial microgel-laden bioink-enabled 3D bioprinting of mesoscale pore networks. <i>Bio-Design and Manufacturing</i> , 2020 , 3, 30-39	4.7	32
93	On the Investigation of Surface Integrity of Ti6Al4V ELI Using Si-Mixed Electric Discharge Machining. <i>Materials</i> , 2020 , 13,	3.5	32
92	Bioprinting of Cell-Laden Microfiber: Can It Become a Standard Product?. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900014	10.1	31
91	The outstanding mechanical response and bone regeneration capacity of robocast dilute magnesium-doped wollastonite scaffolds in critical size bone defects. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3945-3958	7.3	31
90	Synchronous 3D Bioprinting of Large-Scale Cell-Laden Constructs with Nutrient Networks. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901142	10.1	30
89	Fabrication of cerebral aneurysm simulator with a desktop 3D printer. <i>Scientific Reports</i> , 2017 , 7, 44301	4.9	29
88	A low-cost and rapid microfluidic paper-based analytical device fabrication method: flash foam stamp lithography. <i>RSC Advances</i> , 2014 , 4, 63860-63865	3.7	29

87	Construction of multi-scale vascular chips and modelling of the interaction between tumours and blood vessels. <i>Materials Horizons</i> , 2020 , 7, 82-92	14.4	29
86	A novel path planning methodology for extrusion-based additive manufacturing of thin-walled parts. <i>International Journal of Computer Integrated Manufacturing</i> , 2017 , 30, 1301-1315	4.3	28
85	Process Planning for the Fuse Deposition Modeling of Ankle-Foot-Orthoses. <i>Procedia CIRP</i> , 2016 , 42, 760-785	7.85	28
84	3D printing of high-strength chitosan hydrogel scaffolds without any organic solvents. <i>Biomaterials Science</i> , 2020 , 8, 5020-5028	7.4	28
83	Inclined layer printing for fused deposition modeling without assisted supporting structure. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 51, 1-13	9.2	28
82	Fabrication of heterogeneous scaffolds using melt electrospinning writing: Design and optimization. <i>Materials and Design</i> , 2020 , 185, 108274	8.1	27
81	Optimization of control parameters in micro hot embossing. <i>Microsystem Technologies</i> , 2008 , 14, 325-329	2.7	26
80	Fabrication of shape controllable alginate microparticles based on drop-on-demand jetting. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 77, 610-619	2.3	24
79	An optimization approach for path planning of high-quality and uniform additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 651-662	3.2	24
78	3D printed multi-scale scaffolds with ultrafine fibers for providing excellent biocompatibility. <i>Materials Science and Engineering C</i> , 2020 , 107, 110269	8.3	24
77	Support generation for additive manufacturing based on sliced data. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 80, 2041-2052	3.2	23
76	Engineering three-dimensional microenvironments towards in vitro disease models of the central nervous system. <i>Biofabrication</i> , 2019 , 11, 032003	10.5	22
75	4D Printing of High-Performance Thermal-Responsive Liquid Metal Elastomers Driven by Embedded Microliquid Chambers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12068-12074	9.5	22
74	Hydrogels: The Next Generation Body Materials for Microfluidic Chips?. <i>Small</i> , 2020 , 16, e2003797	11	22
73	A fine-interpolation-based parametric interpolation method with a novel real-time look-ahead algorithm. <i>CAD Computer Aided Design</i> , 2014 , 55, 37-48	2.9	21
72	Rapid Customization of 3D Integrated Microfluidic Chips via Modular Structure-Based Design. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2606-2616	5.5	20
71	Effect of borosilicate glass on the mechanical and biodegradation properties of 45S5-derived bioactive glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2014 , 405, 91-99	3.9	19
70	Modeling the printability of photocuring and strength adjustable hydrogel bioink during projection-based 3D bioprinting. <i>Biofabrication</i> , 2021 , 13,	10.5	19

69	Micro/nanofabrication of brittle hydrogels using 3D printed soft ultrafine fiber molds for damage-free demolding. <i>Biofabrication</i> , 2020 , 12, 025015	10.5	18
68	Self-Adaptive All-In-One Delivery Chip for Rapid Skin Nerves Regeneration by Endogenous Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001751	15.6	18
67	Three-Dimensional Coprinting of Liquid Metals for Directly Fabricating Stretchable Electronics. <i>3D Printing and Additive Manufacturing</i> , 2018 , 5, 195-203	4	18
66	A look-ahead and adaptive speed control algorithm for parametric interpolation. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 69, 2613-2620	3.2	17
65	4S5S Bioglass analogue reinforced akermanite ceramic favorable for additive manufacturing mechanically strong scaffolds. <i>RSC Advances</i> , 2015 , 5, 102727-102735	3.7	17
64	Printing@Clinic: From Medical Models to Organ Implants. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3083-3097	5.5	16
63	Research on the electrospun foaming process to fabricate three-dimensional tissue engineering scaffolds. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46898	2.9	16
62	Bioprinting of novel 3D tumor array chip for drug screening. <i>Bio-Design and Manufacturing</i> , 2020 , 3, 175-188	1.8	16
61	Rapid assembling organ prototypes with controllable cell-laden multi-scale sheets. <i>Bio-Design and Manufacturing</i> , 2019 , 2, 1-9	4.7	16
60	3D printing and coating to fabricate a hollow bullet-shaped implant with porous surface for controlled cytoxin release. <i>International Journal of Pharmaceutics</i> , 2018 , 552, 91-98	6.5	16
59	Micro structure fabrication with a simplified hot embossing method. <i>RSC Advances</i> , 2015 , 5, 39138-39144	4.7	15
58	GDF5-GelMA injectable microspheres laden with adipose-derived stem cells for disc degeneration repair. <i>Biofabrication</i> , 2020 ,	10.5	15
57	Fabrication of multi-scale and tunable auxetic scaffolds for tissue engineering. <i>Materials and Design</i> , 2021 , 197, 109277	8.1	15
56	Recyclable conductive nanoclay for direct in situ printing flexible electronics. <i>Materials Horizons</i> , 2021 , 8, 2006-2017	14.4	15
55	3D Printing of Physical Organ Models: Recent Developments and Challenges. <i>Advanced Science</i> , 2021 , 8, e2101394	13.6	15
54	From Microfluidic Paper-Based Analytical Devices to Paper-Based Biofluidics with Integrated Continuous Perfusion. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 601-607	5.5	14
53	Curved profiles machining of Ti6Al4V alloy through WEDM: investigations on geometrical errors. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 16186-16201	5.5	14
52	Axial-Circular Magnetic Levitation: A Three-Dimensional Density Measurement and Manipulation Approach. <i>Analytical Chemistry</i> , 2020 , 92, 6925-6931	7.8	13

51	An Adaptive Tool Path Generation for Fused Deposition Modeling. <i>Advanced Materials Research</i> , 2013 , 819, 7-12	0.5	13
50	Optimal immunosuppressor induces stable gut microbiota after liver transplantation. <i>World Journal of Gastroenterology</i> , 2018 , 24, 3871-3883	5.6	13
49	Optimization of quantitative detection model for benzoic acid in wheat flour based on CARS variable selection and THz spectroscopy. <i>Journal of Food Measurement and Characterization</i> , 2020 , 14, 2549-2558	2.8	13
48	Facial fabrication of paper-based flexible electronics with flash foam stamp lithography. <i>Microsystem Technologies</i> , 2017 , 23, 4419-4426	1.7	12
47	3D biofabrication of microfiber-laden minispheroids: a facile 3D cell co-culturing system. <i>Biomaterials Science</i> , 2019 , 8, 109-117	7.4	12
46	A facile and low-cost micro fabrication material: flash foam. <i>Scientific Reports</i> , 2015 , 5, 13522	4.9	10
45	A bioartificial liver support system integrated with a DLM/GelMA-based bioengineered whole liver for prevention of hepatic encephalopathy via enhanced ammonia reduction. <i>Biomaterials Science</i> , 2020 , 8, 2814-2824	7.4	10
44	Effect of microstructure evolution on chip formation and fracture during high-speed cutting of single phase metals. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 823-833	3.2	9
43	Preparation and Characterization of Low Temperature Heat-Treated 45S5 Bioactive Glass-Ceramic Analogues. <i>Biomedical Glasses</i> , 2015 , 1,	2.7	9
42	A flexible porous chiral auxetic tracheal stent with ciliated epithelium. <i>Acta Biomaterialia</i> , 2021 , 124, 153-165	10.8	9
41	Extracellular recordings of bionic engineered cardiac tissue based on a porous scaffold and microelectrode arrays. <i>Analytical Methods</i> , 2019 , 11, 5872-5879	3.2	9
40	Galectin-1-induced tolerogenic dendritic cells combined with apoptotic lymphocytes prolong liver allograft survival. <i>International Immunopharmacology</i> , 2018 , 65, 470-482	5.8	9
39	Droplet deviation modeling and compensation scheme of inkjet printing. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 75, 1405-1415	3.2	8
38	Enhanced polymer filling and uniform shrinkage of polymer and mold in a hot embossing process. <i>Polymer Engineering and Science</i> , 2013 , 53, 1314-1320	2.3	8
37	Self-sintering liquid metal ink with LAPONITE [®] for flexible electronics. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3070-3080	7.1	8
36	Protocols of 3D Bioprinting of Gelatin Methacryloyl Hydrogel Based Bioinks. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	7
35	Lightweight 3D bioprinting with point by point photocuring. <i>Bioactive Materials</i> , 2021 , 6, 1402-1412	16.7	7
34	Partial Inhibition of HO-1 Attenuates HMP-Induced Hepatic Regeneration against Liver Injury in Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 9108483	6.7	6

33	Facile 3D cell culture protocol based on photocurable hydrogels. <i>Bio-Design and Manufacturing</i> , 2021 , 4, 149-153	4.7	6
32	Peripheral Nerve Regeneration with 3D Printed Bionic Scaffolds Loading Neural Crest Stem Cell Derived Schwann Cell Progenitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2010215	15.6	6
31	Printability during projection-based 3D bioprinting.. <i>Bioactive Materials</i> , 2022 , 11, 254-267	16.7	6
30	Shrinkage in UV-Curable Coatings 2017 , 195-223		5
29	Cell-modified bioprinted microspheres for vascular regeneration. <i>Materials Science and Engineering C</i> , 2020 , 112, 110896	8.3	5
28	An interpolation method for the open CNC system based on EPM. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 69, 405-416	3.2	5
27	Nonlinear propagation of stress waves during high speed cutting. <i>Applied Physics Letters</i> , 2016 , 109, 191304	3.4	5
26	Demolding Defects and the Design of Demolding Device in Micro Hot Embossing Process. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2008 , 44, 53	1.3	4
25	Coaxial 3D bioprinting of organ prototyps from nutrients delivery to vascularization. <i>Journal of Zhejiang University: Science A</i> , 2020 , 21, 859-875	2.1	4
24	Variable bead width of material extrusion-based additive manufacturing. <i>Journal of Zhejiang University: Science A</i> , 2019 , 20, 73-82	2.1	3
23	Projection-based 3D bioprinting for hydrogel scaffold manufacturing. <i>Bio-Design and Manufacturing</i> , 2021 , 3, 1-10	4.7	3
22	3D Cell Culture Can It Be As Popular as 2D Cell Culture?. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000066	6.6	2
21	Graft protection of the liver by hypothermic machine perfusion involves recovery of graft regeneration in rats. <i>Journal of International Medical Research</i> , 2019 , 47, 427-437	1.4	2
20	Analysis of pattern height development in hot embossing process. <i>Microsystem Technologies</i> , 2009 , 15, 963-968	1.7	1
19	Simulation Research on Stress of Polymeric Patterns during Micro Hot Embossing. <i>Applied Mechanics and Materials</i> , 2011 , 80-81, 339-345	0.3	1
18	Recent Progress in 3D Printing of Smart Structures: Classification, Challenges, and Trends. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000271	6	1
17	Research on Enhanced Detection of Benzoic Acid Additives in Liquid Food Based on Terahertz Metamaterial Devices. <i>Sensors</i> , 2021 , 21,	3.8	1
16	Biodegradable intramedullary nail (BIN) with high-strength bioceramics for bone fracture. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 969-982	7.3	1

15	A Godunov-type discrete element model for elastic-viscoplastic continuum impact problems. <i>International Journal for Numerical Methods in Engineering</i> ,	2.4	1
14	Balancing the customization and standardization: exploration and layout surrounding the regulation of the growing field of 3D-printed medical devices in China.. <i>Bio-Design and Manufacturing</i> , 2022 , 1-27	4.7	1
13	3D printed high-resolution scaffold with hydrogel microfibers for providing excellent biocompatibility. <i>Journal of Biomaterials Applications</i> , 2021 , 35, 633-642	2.9	0
12	Integration of three-dimensional printing and microfluidics 2022 , 385-406		0
11	Establishment and optimization of temperature compensation model for benzoic acid detection based on terahertz metamaterial. <i>Infrared Physics and Technology</i> , 2022 , 104101	2.7	0
10	Large Scale Tissues Bioprinting 2022 , 257-280		
9	3D Printing of In Vitro Models 2022 , 311-337		
8	Direct Ink Writing for 3D Bioprinting Applications 2022 , 113-147		
7	Bioprinting Approaches of Hydrogel Microgel 2022 , 179-212		
6	3D Printing of Vascular Chips 2022 , 281-309		
5	3D Bioprinting, A Powerful Tool for 3D Cells Assembling 2022 , 1-10		
4	Representative 3D Bioprinting Approaches 2022 , 11-45		
3	Microfiber-Based Organoids Bioprinting for In Vitro Model 2022 , 237-256		
2	Coaxial 3 D Bioprinting 2022 , 69-88		
1	Biomedical Applications of Microgels 2022 , 213-235		