

Hongwei Yang

List of Publications by Year in descending order

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95
papers

5,540
citations

81743

39
h-index

85405

71
g-index

95
all docs

95
docs citations

95
times ranked

6300
citing authors

#	ARTICLE	IF	CITATIONS
1	Coaxial nozzle-assisted 3D bioprinting with built-in microchannels for nutrients delivery. <i>Biomaterials</i> , 2015, 61, 203-215.	5.7	486
2	Research on the printability of hydrogels in 3D bioprinting. <i>Scientific Reports</i> , 2016, 6, 29977.	1.6	428
3	A Review of 3D Printing Technologies for Soft Polymer Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2000187.	7.8	379
4	Development of 3D bioprinting: From printing methods to biomedical applications. <i>Asian Journal of Pharmaceutical Sciences</i> , 2020, 15, 529-557.	4.3	264
5	Developments of 3D Printing Microfluidics and Applications in Chemistry and Biology: a Review. <i>Electroanalysis</i> , 2016, 28, 1658-1678.	1.5	241
6	3D Bioprinting of Vessel-like Structures with Multilevel Fluidic Channels. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 399-408.	2.6	181
7	Fabrication of low cost soft tissue prostheses with the desktop 3D printer. <i>Scientific Reports</i> , 2014, 4, 6973.	1.6	179
8	Fabrication of paper-based microfluidic analysis devices: a review. <i>RSC Advances</i> , 2015, 5, 78109-78127.	1.7	177
9	All-Printed Flexible and Stretchable Electronics with Pressing or Freezing Activatable Liquid-Metal-Silicone Inks. <i>Advanced Functional Materials</i> , 2020, 30, 1906683.	7.8	138
10	Fiber-Based Mini Tissue with Morphology-Controllable GelMA Microfibers. <i>Small</i> , 2018, 14, e1802187.	5.2	125
11	A 3D-printed PRP-GelMA hydrogel promotes osteochondral regeneration through M2 macrophage polarization in a rabbit model. <i>Acta Biomaterialia</i> , 2021, 128, 150-162.	4.1	120
12	Vessel-on-a-chip with Hydrogel-based Microfluidics. <i>Small</i> , 2018, 14, e1802368.	5.2	119
13	Electro-Assisted Bioprinting of Low-Concentration GelMA Microdroplets. <i>Small</i> , 2019, 15, e1804216.	5.2	92
14	3D Printing Surgical Implants at the clinic: A Experimental Study on Anterior Cruciate Ligament Reconstruction. <i>Scientific Reports</i> , 2016, 6, 21704.	1.6	91
15	3D printing of high-strength chitosan hydrogel scaffolds without any organic solvents. <i>Biomaterials Science</i> , 2020, 8, 5020-5028.	2.6	82
16	Printing 3D microfluidic chips with a 3D sugar printer. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 447-456.	1.0	78
17	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.	1.5	74
18	Airflow-Assisted 3D Bioprinting of Human Heterogeneous Microspheroidal Organoids with Microfluidic Nozzle. <i>Small</i> , 2018, 14, e1802630.	5.2	71

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19	Rapid fabrication of paper-based microfluidic analytical devices with desktop stereolithography 3D printer. <i>RSC Advances</i> , 2015, 5, 2694-2701.	1.7	65
20	Sacrificial microgel-laden bioink-enabled 3D bioprinting of mesoscale pore networks. <i>Bio-Design and Manufacturing</i> , 2020, 3, 30-39.	3.9	65
21	Grafting of 3D Bioprinting to In Vitro Drug Screening: A Review. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901773.	3.9	63
22	Modeling and process planning for curved layer fused deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 273-285.	1.5	61
23	3D Printing of Physical Organ Models: Recent Developments and Challenges. <i>Advanced Science</i> , 2021, 8, e2101394.	5.6	61
24	3D-Printed Atsttrin-Incorporated Alginate/Hydroxyapatite Scaffold Promotes Bone Defect Regeneration with TNF/TNFR Signaling Involvement. <i>Advanced Healthcare Materials</i> , 2015, 4, 1701-1708.	3.9	60
25	Metastasis-on-a-chip mimicking the progression of kidney cancer in the liver for predicting treatment efficacy. <i>Theranostics</i> , 2020, 10, 300-311.	4.6	60
26	A parallel-based path generation method for fused deposition modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 927-937.	1.5	58
27	Synchronous 3D Bioprinting of Large-Scale Cell-Laden Constructs with Nutrient Networks. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901142.	3.9	57
28	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.	1.6	56
29	Hydrogels: The Next Generation Body Materials for Microfluidic Chips?. <i>Small</i> , 2020, 16, e2003797.	5.2	56
30	Construction of multi-scale vascular chips and modelling of the interaction between tumours and blood vessels. <i>Materials Horizons</i> , 2020, 7, 82-92.	6.4	55
31	On the Investigation of Surface Integrity of Ti6Al4V ELI Using Si-Mixed Electric Discharge Machining. <i>Materials</i> , 2020, 13, 1549.	1.3	55
32	3D Printed Paper-Based Microfluidic Analytical Devices. <i>Micromachines</i> , 2016, 7, 108.	1.4	53
33	Modeling the printability of photocuring and strength adjustable hydrogel bioink during projection-based 3D bioprinting. <i>Biofabrication</i> , 2021, 13, 035032.	3.7	51
34	Growth differentiation factor-5-gelatin methacryloyl injectable microspheres laden with adipose-derived stem cells for repair of disc degeneration. <i>Biofabrication</i> , 2021, 13, 015010.	3.7	48
35	Epithelial Gasdermin D shapes the host-microbial interface by driving mucus layer formation. <i>Science Immunology</i> , 2022, 7, eabk2092.	5.6	48
36	Fabrication of cerebral aneurysm simulator with a desktop 3D printer. <i>Scientific Reports</i> , 2017, 7, 44301.	1.6	47

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37	Bioprinting of Cell-Laden Microfiber: Can It Become a Standard Product?. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900014.	3.9	45
38	3D printed multi-scale scaffolds with ultrafine fibers for providing excellent biocompatibility. <i>Materials Science and Engineering C</i> , 2020, 107, 110269.	3.8	44
39	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.	4.0	44
40	Ultrahigh strength of three-dimensional printed diluted magnesium doping wollastonite porous scaffolds. <i>MRS Communications</i> , 2015, 5, 631-639.	0.8	41
41	HBC-nanofiber hydrogel scaffolds with 3D printed internal microchannels for enhanced cartilage differentiation. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6115-6127.	2.9	41
42	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.	1.5	39
43	Why choose 3D bioprinting? Part II: methods and bioprinters. <i>Bio-Design and Manufacturing</i> , 2020, 3, 1-4.	3.9	39
44	Bioprinting of novel 3D tumor array chip for drug screening. <i>Bio-Design and Manufacturing</i> , 2020, 3, 175-188.	3.9	38
45	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.	2.9	36
46	A low-cost and rapid microfluidic paper-based analytical device fabrication method: flash foam stamp lithography. <i>RSC Advances</i> , 2014, 4, 63860-63865.	1.7	35
47	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.	7.8	32
48	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.	1.1	31
49	Liquid Metal Microgels for Three-Dimensional Printing of Smart Electronic Clothes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13458-13467.	4.0	31
50	Support generation for additive manufacturing based on sliced data. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 2041-2052.	1.5	30
51	Optimization of control parameters in micro hot embossing. <i>Microsystem Technologies</i> , 2008, 14, 325-329.	1.2	29
52	Rapid Customization of 3D Integrated Microfluidic Chips via Modular Structure-Based Design. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2606-2616.	2.6	29
53	Printability during projection-based 3D bioprinting. <i>Bioactive Materials</i> , 2022, 11, 254-267.	8.6	28
54	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.	2.6	26

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55	Multifunctionally wearable monitoring with gelatin hydrogel electronics of liquid metals. <i>Materials Horizons</i> , 2022, 9, 961-972.	6.4	26
56	Three-Dimensional Coprinting of Liquid Metals for Directly Fabricating Stretchable Electronics. <i>3D Printing and Additive Manufacturing</i> , 2018, 5, 195-203.	1.4	25
57	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.	7.8	25
58	Micro structure fabrication with a simplified hot embossing method. <i>RSC Advances</i> , 2015, 5, 39138-39144.	1.7	24
59	A flexible porous chiral auxetic tracheal stent with ciliated epithelium. <i>Acta Biomaterialia</i> , 2021, 124, 153-165.	4.1	24
60	Lightweight 3D bioprinting with point by point photocuring. <i>Bioactive Materials</i> , 2021, 6, 1402-1412.	8.6	23
61	45S5 Bioglass analogue reinforced akermanite ceramic favorable for additive manufacturing mechanically strong scaffolds. <i>RSC Advances</i> , 2015, 5, 102727-102735.	1.7	21
62	Research on the electrospun foaming process to fabricate three-dimensional tissue engineering scaffolds. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46898.	1.3	21
63	Rapid assembling organ prototypes with controllable cell-laden multi-scale sheets. <i>Bio-Design and Manufacturing</i> , 2019, 2, 1-9.	3.9	21
64	A bioartificial liver support system integrated with a DLM/GelMA-based bioengineered whole liver for prevention of hepatic encephalopathy <i>via</i> enhanced ammonia reduction. <i>Biomaterials Science</i> , 2020, 8, 2814-2824.	2.6	21
65	Self-sintering liquid metal ink with LAPONITE® for flexible electronics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3070-3080.	2.7	21
66	3D Cell Culture—Can It Be As Popular as 2D Cell Culture?. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000066.	1.7	20
67	Facile 3D cell culture protocol based on photocurable hydrogels. <i>Bio-Design and Manufacturing</i> , 2021, 4, 149-153.	3.9	19
68	Coaxial 3D bioprinting of organ prototypes from nutrients delivery to vascularization. <i>Journal of Zhejiang University: Science A</i> , 2020, 21, 859-875.	1.3	18
69	Projection-based 3D bioprinting for hydrogel scaffold manufacturing. <i>Bio-Design and Manufacturing</i> , 2022, 5, 633-639.	3.9	17
70	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.	2.6	16
71	Protocols of 3D Bioprinting of Gelatin Methacryloyl Hydrogel Based Bioinks. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	16
72	Recent Progress in 3D Printing of Smart Structures: Classification, Challenges, and Trends. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000271.	3.3	16

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73	Why choose 3D bioprinting? Part I: a brief introduction of 3D bioprinting for the beginners. <i>Bio-Design and Manufacturing</i> , 2019, 2, 221-224.	3.9	15
74	Facial fabrication of paper-based flexible electronics with flash foam stamp lithography. <i>Microsystem Technologies</i> , 2017, 23, 4419-4426.	1.2	14
75	A facile and low-cost micro fabrication material: flash foam. <i>Scientific Reports</i> , 2015, 5, 13522.	1.6	13
76	Why choose 3D bioprinting? Part III: printing in vitro 3D models for drug screening. <i>Bio-Design and Manufacturing</i> , 2020, 3, 160-163.	3.9	12
77	Premigratory neural crest stem cells generate enteric neurons populating the mouse colon and regulating peristalsis in tissue-engineered intestine. <i>Stem Cells Translational Medicine</i> , 2021, 10, 922-938.	1.6	12
78	Research on Enhanced Detection of Benzoic Acid Additives in Liquid Food Based on Terahertz Metamaterial Devices. <i>Sensors</i> , 2021, 21, 3238.	2.1	12
79	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, 5, 580-606.	3.9	12
80	Variable bead width of material extrusion-based additive manufacturing. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 73-82.	1.3	11
81	Synthesis of Silver Nanowires by Using Tetrabutyl Ammonium Dibromochloride as the Auxiliary for Low-Haze Flexible Transparent Conductive Films. <i>Langmuir</i> , 2019, 35, 11829-11835.	1.6	11
82	Detection of Foreign-Body in Milk Powder Processing Based on Terahertz Imaging and Spectrum. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2021, 42, 878.	1.2	11
83	Scalable Milk-Derived Whey Protein Hydrogel as an Implantable Biomaterial. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28501-28513.	4.0	10
84	Biomanufacturing: from biomedicine to biomedicine. <i>Bio-Design and Manufacturing</i> , 2021, 4, 912-913.	3.9	7
85	Ascorbic Acid-Assisted One-Step Chemical Reaction To Design an Ultralong Silver Nanowire Structure for a Highly Transparent Flexible Conducting Film. <i>ACS Omega</i> , 2020, 5, 18458-18464.	1.6	6
86	Dodecylamine-mediated synthesis and growth mechanism of copper nanowires with an aspect ratio of over 10000. <i>Materials Letters</i> , 2020, 274, 128029.	1.3	6
87	Cell-modified bioprinted microspheres for vascular regeneration. <i>Materials Science and Engineering C</i> , 2020, 112, 110896.	3.8	6
88	A novel wavy non-uniform ligament chiral stent with J-shaped stress-strain behavior to mimic the native trachea. <i>Bio-Design and Manufacturing</i> , 2021, 4, 851-866.	3.9	6
89	A microfluidic cell chip for virus isolation via rapid screening for permissive cells. <i>Virologica Sinica</i> , 2022, , .	1.2	6
90	3D Bioprinting: Airflow-Assisted 3D Bioprinting of Human Heterogeneous Microspheroidal Organoids with Microfluidic Nozzle (Small 39/2018). <i>Small</i> , 2018, 14, 1870181.	5.2	4

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91	Photocurable Hydrogel Substrate—Better Potential Substitute on Bone-Marrow-Derived Dendritic Cells Culturing. <i>Materials</i> , 2022, 15, 3322.	1.3	4
92	Micro-Computed Tomography Analysis of Femoral Head Necrosis After Long-Term Internal Fixation for Femoral Neck Fracture. <i>Orthopaedic Surgery</i> , 2022, 14, 1186-1192.	0.7	3
93	Recent Progress in 3D Printing of Smart Structures: Classification, Challenges, and Trends. <i>Advanced Intelligent Systems</i> , 2021, 3, .	3.3	2
94	Synthesis and the growth mechanism of ultrafine silver nanowires by using 5-chloro-2-thienylmagnesium bromide as the additive. <i>RSC Advances</i> , 2021, 11, 37063-37066.	1.7	1
95	Coaxial Bioprinting: Bioprinting of Cell-Laden Microfiber: Can It Become a Standard Product? (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	3.9	0