

Lijie Grace Zhang

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

93
papers

4,978
citations

44
h-index

69
g-index

94
ext. papers

5,958
ext. citations

7.3
avg, IF

6.12
L-index

#	Paper	IF	Citations
93	Nanotechnology and 3D/4D Bioprinting for Neural Tissue Regeneration 2022 , 427-458		0
92	An in vitro analysis of the effect of geometry-induced flows on endothelial cell behavior in 3D printed small-diameter blood vessels 2022 , 212832		0
91	3D printing novel in vitro cancer cell culture model systems for lung cancer stem cell study. <i>Materials Science and Engineering C</i> , 2021 , 122, 111914	8.3	11
90	Recent advances in bioprinting technologies for engineering hepatic tissue. <i>Materials Science and Engineering C</i> , 2021 , 123, 112013	8.3	4
89	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , 2021 , 124, 112057	8.3	14
88	4D Printed Cardiac Construct with Aligned Myofibers and Adjustable Curvature for Myocardial Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12746-12758	9.5	21
87	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 7608-7632	7.3	10
86	Dual 3D printing for vascularized bone tissue regeneration. <i>Acta Biomaterialia</i> , 2021 , 123, 263-274	10.8	11
85	Acoustic Droplet Vaporization of Perfluorocarbon Droplets in 3D-Printable Gelatin Methacrylate Scaffolds. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 3263-3274	3.5	0
84	Emerging 4D printing strategies for next-generation tissue regeneration and medical devices.. <i>Advanced Materials</i> , 2021 , e2109198	24	5
83	Three-Dimensional Printing Biologically Inspired DNA-Based Gradient Scaffolds for Cartilage Tissue Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33219-33228	9.5	35
82	4D physiologically adaptable cardiac patch: A 4-month in vivo study for the treatment of myocardial infarction. <i>Science Advances</i> , 2020 , 6, eabb5067	14.3	52
81	4D Self-Morphing Culture Substrate for Modulating Cell Differentiation. <i>Advanced Science</i> , 2020 , 7, 1902408	13.0	24
80	Three-Dimensional Printing: A Catalyst for a Changing Orthopaedic Landscape. <i>JBJS Reviews</i> , 2020 , 8, e0076	2.6	10
79	Inhibition of Human Breast Cancer Cell Proliferation by Low-Intensity Ultrasound Stimulation. <i>Journal of Ultrasound in Medicine</i> , 2020 , 39, 2043-2052	2.9	6
78	Integrating cold atmospheric plasma with 3D printed bioactive nanocomposite scaffold for cartilage regeneration. <i>Materials Science and Engineering C</i> , 2020 , 111, 110844	8.3	12
77	Touch-Spun Nanofibers for Nerve Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2067-2075	3.7	21

76	Engineering a Novel 3D Printed Vascularized Tissue Model for Investigating Breast Cancer Metastasis to Bone. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1900924	10.1	25
75	3D printing multiphasic osteochondral tissue constructs with nano to micro features via PCL based bioink. <i>Bioprinting</i> , 2020 , 17, e00066	7	15
74	3D Bioprinting-Tunable Small-Diameter Blood Vessels with Biomimetic Biphasic Cell Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45904-45915	9.5	23
73	4D printing soft robotics for biomedical applications. <i>Additive Manufacturing</i> , 2020 , 36, 101567	6.1	30
72	Development of 3D printable conductive hydrogel with crystallized PEDOT:PSS for neural tissue engineering. <i>Materials Science and Engineering C</i> , 2019 , 99, 582-590	8.3	99
71	Integration of biological systems with electronic-mechanical assemblies. <i>Acta Biomaterialia</i> , 2019 , 95, 91-111	10.8	16
70	3D Printed scaffolds with hierarchical biomimetic structure for osteochondral regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 19, 58-70	6	31
69	4D anisotropic skeletal muscle tissue constructs fabricated by staircase effect strategy. <i>Biofabrication</i> , 2019 , 11, 035030	10.5	26
68	A novel near-infrared light responsive 4D printed nanoarchitecture with dynamically and remotely controllable transformation. <i>Nano Research</i> , 2019 , 12, 1381-1388	10	40
67	Recent advances in 3D printing: vascular network for tissue and organ regeneration. <i>Translational Research</i> , 2019 , 211, 46-63	11	50
66	Advanced 4D Bioprinting Technologies for Brain Tissue Modeling and Study. <i>International Journal of Smart and Nano Materials</i> , 2019 , 10, 177-204	3.6	23
65	Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells Using Microbubbles and Low Intensity Pulsed Ultrasound on 3D Printed Scaffolds. <i>Advanced Biology</i> , 2019 , 3, e1800257	3.5	10
64	In vitro and in vivo evaluation of 3D bioprinted small-diameter vasculature with smooth muscle and endothelium. <i>Biofabrication</i> , 2019 , 12, 015004	10.5	44
63	Three-Dimensional-Bioprinted Dopamine-Based Matrix for Promoting Neural Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8993-9001	9.5	72
62	Photolithographic-stereolithographic-tandem fabrication of 4D smart scaffolds for improved stem cell cardiomyogenic differentiation. <i>Biofabrication</i> , 2018 , 10, 035007	10.5	57
61	Biophysical Assessment of Pulmonary Surfactant Predicts the Lung Toxicity of Nanomaterials. <i>Small Methods</i> , 2018 , 2, 1700367	12.8	18
60	3D bioprinting mesenchymal stem cell-laden construct with core-shell nanospheres for cartilage tissue engineering. <i>Nanotechnology</i> , 2018 , 29, 185101	3.4	92
59	How can 3D printing be a powerful tool in nanomedicine?. <i>Nanomedicine</i> , 2018 , 13, 251-253	5.6	10

58	Advances in 3D Bioprinting for Neural Tissue Engineering. <i>Advanced Biology</i> , 2018 , 2, 1700213	3.5	50
57	3D printing nano conductive multi-walled carbon nanotube scaffolds for nerve regeneration. <i>Journal of Neural Engineering</i> , 2018 , 15, 016018	5	129
56	Single-step synthesis of carbon encapsulated magnetic nanoparticles in arc plasma and potential biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2018 , 509, 414-421	9.3	14
55	3D bioprinting for cardiovascular regeneration and pharmacology. <i>Advanced Drug Delivery Reviews</i> , 2018 , 132, 252-269	18.5	76
54	Aggregation State of Metal-Based Nanomaterials at the Pulmonary Surfactant Film Determines Biophysical Inhibition. <i>Environmental Science & Technology</i> , 2018 , 52, 8920-8929	10.3	26
53	Stereolithographic 4D Bioprinting of Multiresponsive Architectures for Neural Engineering. <i>Advanced Biology</i> , 2018 , 2, 1800101	3.5	73
52	Enhanced neural stem cell functions in conductive annealed carbon nanofibrous scaffolds with electrical stimulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 2485-2494	6	64
51	Bio-Based Polymers for 3D Printing of Bioscaffolds. <i>Polymer Reviews</i> , 2018 , 58, 668-687	14	43
50	Directly Induced Neural Differentiation of Human Adipose-Derived Stem Cells Using Three-Dimensional Culture System of Conductive Microwell with Electrical Stimulation. <i>Tissue Engineering - Part A</i> , 2018 , 24, 537-545	3.9	23
49	Development of Novel 3-D Printed Scaffolds With Core-Shell Nanoparticles for Nerve Regeneration. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 408-418	5	52
48	Enhanced bone tissue regeneration using a 3D printed microstructure incorporated with a hybrid nano hydrogel. <i>Nanoscale</i> , 2017 , 9, 5055-5062	7.7	81
47	3D bioprinted graphene oxide-incorporated matrix for promoting chondrogenic differentiation of human bone marrow mesenchymal stem cells. <i>Carbon</i> , 2017 , 116, 615-624	10.4	109
46	3D printing scaffold coupled with low level light therapy for neural tissue regeneration. <i>Biofabrication</i> , 2017 , 9, 025002	10.5	42
45	Fabrication of a Highly Aligned Neural Scaffold via a Table Top Stereolithography 3D Printing and Electrospinning. <i>Tissue Engineering - Part A</i> , 2017 , 23, 491-502	3.9	101
44	3D Bioprinting for Organ Regeneration. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601118	10.1	254
43	Integrating three-dimensional printing and nanotechnology for musculoskeletal regeneration. <i>Nanotechnology</i> , 2017 , 28, 382001	3.4	19
42	4D printing of polymeric materials for tissue and organ regeneration. <i>Materials Today</i> , 2017 , 20, 577-591	21.8	200
41	Three-Dimensional Printing Articular Cartilage: Recapitulating the Complexity of Native Tissue. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 225-236	7.9	40

40	Lipid Coated Microbubbles and Low Intensity Pulsed Ultrasound Enhance Chondrogenesis of Human Mesenchymal Stem Cells in 3D Printed Scaffolds. <i>Scientific Reports</i> , 2016 , 6, 37728	4.9	26
39	Hierarchical Fabrication of Engineered Vascularized Bone Biphasic Constructs via Dual 3D Bioprinting: Integrating Regional Bioactive Factors into Architectural Design. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2174-81	10.1	122
38	4D printing smart biomedical scaffolds with novel soybean oil epoxidized acrylate. <i>Scientific Reports</i> , 2016 , 6, 27226	4.9	200
37	Gelatin methacrylamide hydrogel with graphene nanoplatelets for neural cell-laden 3D bioprinting. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 4185-4188	0.9	35
36	Improved Human Bone Marrow Mesenchymal Stem Cell Osteogenesis in 3D Bioprinted Tissue Scaffolds with Low Intensity Pulsed Ultrasound Stimulation. <i>Scientific Reports</i> , 2016 , 6, 32876	4.9	73
35	Four-Dimensional Printing Hierarchy Scaffolds with Highly Biocompatible Smart Polymers for Tissue Engineering Applications. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 952-963	2.9	90
34	3D Bioprinting a Cell-Laden Bone Matrix for Breast Cancer Metastasis Study. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30017-30026	9.5	176
33	Simulated Body Fluid Nucleation of Three-Dimensional Printed Elastomeric Scaffolds for Enhanced Osteogenesis. <i>Tissue Engineering - Part A</i> , 2016 , 22, 940-8	3.9	11
32	Enhanced human bone marrow mesenchymal stem cell chondrogenic differentiation in electrospun constructs with carbon nanomaterials. <i>Carbon</i> , 2016 , 97, 1-13	10.4	61
31	A synergistic approach to the design, fabrication and evaluation of 3D printed micro and nano featured scaffolds for vascularized bone tissue repair. <i>Nanotechnology</i> , 2016 , 27, 064001	3.4	106
30	Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. <i>Journal of Colloid and Interface Science</i> , 2016 , 469, 129-137	9.3	63
29	3D printed nanocomposite matrix for the study of breast cancer bone metastasis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 69-79	6	131
28	Biomaterials and 3D Printing Techniques for Neural Tissue Regeneration 2016 , 1-24		5
27	A 3D printed nano bone matrix for characterization of breast cancer cell and osteoblast interactions. <i>Nanotechnology</i> , 2016 , 27, 315103	3.4	46
26	Synergistic Effect of Cold Atmospheric Plasma and Drug Loaded Core-shell Nanoparticles on Inhibiting Breast Cancer Cell Growth. <i>Scientific Reports</i> , 2016 , 6, 21974	4.9	51
25	Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. <i>Acta Biomaterialia</i> , 2016 , 39, 25-33	10.8	55
24	3D printing of novel osteochondral scaffolds with graded microstructure. <i>Nanotechnology</i> , 2016 , 27, 414001	3.4	54
23	Biologically Inspired Smart Release System Based on 3D Bioprinted Perfused Scaffold for Vascularized Tissue Regeneration. <i>Advanced Science</i> , 2016 , 3, 1600058	13.6	90

22	Highly aligned nanocomposite scaffolds by electrospinning and electrospraying for neural tissue regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 693-704	6	88
21	Integrating biologically inspired nanomaterials and table-top stereolithography for 3D printed biomimetic osteochondral scaffolds. <i>Nanoscale</i> , 2015 , 7, 14010-22	7.7	151
20	Design of a Novel 3D Printed Bioactive Nanocomposite Scaffold for Improved Osteochondral Regeneration. <i>Cellular and Molecular Bioengineering</i> , 2015 , 8, 416-432	3.9	56
19	Three-dimensional printing of nanomaterial scaffolds for complex tissue regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 103-14	7.9	144
18	Development of novel three-dimensional printed scaffolds for osteochondral regeneration. <i>Tissue Engineering - Part A</i> , 2015 , 21, 403-15	3.9	70
17	Cold Atmospheric Plasma Modified Electrospun Scaffolds with Embedded Microspheres for Improved Cartilage Regeneration. <i>PLoS ONE</i> , 2015 , 10, e0134729	3.7	24
16	Enhanced human bone marrow mesenchymal stem cell functions on cathodic arc plasma-treated titanium. <i>International Journal of Nanomedicine</i> , 2015 , 10, 7385-96	7.3	8
15	Engineering a biomimetic three-dimensional nanostructured bone model for breast cancer bone metastasis study. <i>Acta Biomaterialia</i> , 2015 , 14, 164-74	10.8	60
14	Nanotechnology: A Toolkit for Cell Behavior 2015 , 1-24		1
13	Nanotechnology: A Toolkit for Cell Behavior 2015 , 3-32		
12	Biomimetic biphasic 3-D nanocomposite scaffold for osteochondral regeneration. <i>AICHE Journal</i> , 2014 , 60, 432-442	3.6	25
11	Design of biomimetic and bioactive cold plasma-modified nanostructured scaffolds for enhanced osteogenic differentiation of bone marrow-derived mesenchymal stem cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1060-71	3.9	64
10	3D nano/microfabrication techniques and nanobiomaterials for neural tissue regeneration. <i>Nanomedicine</i> , 2014 , 9, 859-75	5.6	88
9	Enhanced Human Bone Marrow Mesenchymal Stem Cell Chondrogenic Differentiation on Cold Atmospheric Plasma Modified Cartilage Scaffold. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1723, 1		3
8	Enhanced human bone marrow mesenchymal stem cell functions in novel 3D cartilage scaffolds with hydrogen treated multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2013 , 24, 365102	3.4	53
7	Novel biologically-inspired rosette nanotube PLLA scaffolds for improving human mesenchymal stem cell chondrogenic differentiation. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 065003	3.5	39
6	Cold atmospheric plasma for selectively ablating metastatic breast cancer cells. <i>PLoS ONE</i> , 2013 , 8, e73747	3.7	140
5	Biomimetic three-dimensional nanocrystalline hydroxyapatite and magnetically synthesized single-walled carbon nanotube chitosan nanocomposite for bone regeneration. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2087-99	7.3	82

4	Electrospun fibrous scaffolds for bone and cartilage tissue generation: recent progress and future developments. <i>Tissue Engineering - Part B: Reviews</i> , 2012 , 18, 478-86	7.9	52
3	Nanobiotechnology and Nanostructured Therapeutic Delivery Systems. <i>Recent Patents on Biomedical Engineering</i> , 2012 , 5, 29-40		5
2	Recent progress in interfacial tissue engineering approaches for osteochondral defects. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1628-40	4.7	77
1	Greater osteoblast and mesenchymal stem cell adhesion and proliferation on titanium with hydrothermally treated nanocrystalline hydroxyapatite/magnetically treated carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 7692-702	1.3	38