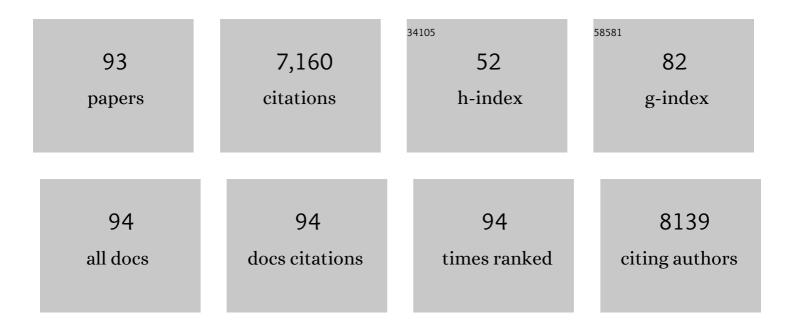
Lijie Grace Zhang

List of Publications by Year in descending order

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LUIE CRACE ZHANC

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nanotechnology and 3D/4D Bioprinting for Neural Tissue Regeneration. , 2022, , 427-458. | | 4 |
| 2 | Emerging 4D Printing Strategies for Nextâ€Generation Tissue Regeneration and Medical Devices. Advanced Materials, 2022, 34, e2109198. | 21.0 | 57 |
| 3 | An in vitro analysis of the effect of geometry-induced flows on endothelial cell behavior in 3D printed small-diameter blood vessels. , 2022, 137, 212832. | | 9 |
| 4 | 4D Printed Cardiac Construct with Aligned Myofibers and Adjustable Curvature for Myocardial Regeneration. ACS Applied Materials & amp; Interfaces, 2021, 13, 12746-12758. | 8.0 | 82 |
| 5 | 4D printing in biomedical applications: emerging trends and technologies. Journal of Materials Chemistry B, 2021, 9, 7608-7632. | 5.8 | 65 |
| 6 | Dual 3D printing for vascularized bone tissue regeneration. Acta Biomaterialia, 2021, 123, 263-274. | 8.3 | 53 |
| 7 | 3D printing novel in vitro cancer cell culture model systems for lung cancer stem cell study. Materials Science and Engineering C, 2021, 122, 111914. | 7.3 | 32 |
| 8 | Recent advances in bioprinting technologies for engineering hepatic tissue. Materials Science and Engineering C, 2021, 123, 112013. | 7.3 | 26 |
| 9 | Recent advances in bioprinting technologies for engineering cardiac tissue. Materials Science and Engineering C, 2021, 124, 112057. | 7.3 | 35 |
| 10 | Acoustic Droplet Vaporization of Perfluorocarbon Droplets in 3D-Printable Gelatin Methacrylate Scaffolds. Ultrasound in Medicine and Biology, 2021, 47, 3263-3274. | 1.5 | 2 |
| 11 | <i>In vitro</i> and <i>in vivo</i> evaluation of 3D bioprinted small-diameter vasculature with smooth muscle and endothelium. Biofabrication, 2020, 12, 015004. | 7.1 | 90 |
| 12 | Touch-Spun Nanofibers for Nerve Regeneration. ACS Applied Materials & Interfaces, 2020, 12, 2067-2075. | 8.0 | 27 |
| 13 | Engineering a Novel 3D Printed Vascularized Tissue Model for Investigating Breast Cancer Metastasis to Bone. Advanced Healthcare Materials, 2020, 9, e1900924. | 7.6 | 45 |
| 14 | 3D printing multiphasic osteochondral tissue constructs with nano to micro features via PCL based bioink. Bioprinting, 2020, 17, e00066. | 5.8 | 29 |
| 15 | 3D Bioprinting-Tunable Small-Diameter Blood Vessels with Biomimetic Biphasic Cell Layers. ACS Applied Materials & Interfaces, 2020, 12, 45904-45915. | 8.0 | 70 |
| 16 | 4D printing soft robotics for biomedical applications. Additive Manufacturing, 2020, 36, 101567. | 3.0 | 73 |
| 17 | Three-Dimensional Printing Biologically Inspired DNA-Based Gradient Scaffolds for Cartilage Tissue Regeneration. ACS Applied Materials & amp; Interfaces, 2020, 12, 33219-33228. | 8.0 | 57 |
| 18 | 4D physiologically adaptable cardiac patch: A 4-month in vivo study for the treatment of myocardial infarction. Science Advances, 2020, 6, eabb5067. | 10.3 | 118 |

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| 19 | 4D Selfâ€Morphing Culture Substrate for Modulating Cell Differentiation. Advanced Science, 2020, 7, 1902403. | 11.2 | 46 |
| 20 | Three-Dimensional Printing: A Catalyst for a Changing Orthopaedic Landscape. JBJS Reviews, 2020, 8, e0076-e0076. | 2.0 | 18 |
| 21 | Inhibition of Human Breast Cancer Cell Proliferation by <scp>Lowâ€Intensity</scp> Ultrasound Stimulation. Journal of Ultrasound in Medicine, 2020, 39, 2043-2052. | 1.7 | 10 |
| 22 | Integrating cold atmospheric plasma with 3D printed bioactive nanocomposite scaffold for cartilage regeneration. Materials Science and Engineering C, 2020, 111, 110844. | 7.3 | 22 |
| 23 | Advanced 4D-bioprinting technologies for brain tissue modeling and study. International Journal of Smart and Nano Materials, 2019, 10, 177-204. | 4.2 | 40 |
| 24 | Development of 3D printable conductive hydrogel with crystallized PEDOT:PSS for neural tissue engineering. Materials Science and Engineering C, 2019, 99, 582-590. | 7.3 | 167 |
| 25 | Integration of biological systems with electronic-mechanical assemblies. Acta Biomaterialia, 2019, 95, 91-111. | 8.3 | 23 |
| 26 | 3D Printed scaffolds with hierarchical biomimetic structure for osteochondral regeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 19, 58-70. | 3.3 | 49 |
| 27 | 4D anisotropic skeletal muscle tissue constructs fabricated by staircase effect strategy. Biofabrication, 2019, 11, 035030. | 7.1 | 40 |
| 28 | A novel near-infrared light responsive 4D printed nanoarchitecture with dynamically and remotely controllable transformation. Nano Research, 2019, 12, 1381-1388. | 10.4 | 82 |
| 29 | Recent advances in 3D printing: vascular network for tissue and organ regeneration. Translational Research, 2019, 211, 46-63. | 5.0 | 92 |
| 30 | Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells Using Microbubbles and Low Intensity Pulsed Ultrasound on 3D Printed Scaffolds. Advanced Biology, 2019, 3, e1800257. | 3.0 | 19 |
| 31 | Three-Dimensional-Bioprinted Dopamine-Based Matrix for Promoting Neural Regeneration. ACS Applied Materials & Interfaces, 2018, 10, 8993-9001. | 8.0 | 97 |
| 32 | Photolithographic-stereolithographic-tandem fabrication of 4D smart scaffolds for improved stem cell cardiomyogenic differentiation. Biofabrication, 2018, 10, 035007. | 7.1 | 92 |
| 33 | Biophysical Assessment of Pulmonary Surfactant Predicts the Lung Toxicity of Nanomaterials. Small Methods, 2018, 2, 1700367. | 8.6 | 28 |
| 34 | 3D bioprinting mesenchymal stem cell-laden construct with core–shell nanospheres for cartilage tissue engineering. Nanotechnology, 2018, 29, 185101. | 2.6 | 134 |
| 35 | How can 3D printing be a powerful tool in nanomedicine?. Nanomedicine, 2018, 13, 251-253. | 3.3 | 15 |
| 36 | Advances in 3D Bioprinting for Neural Tissue Engineering. Advanced Biology, 2018, 2, 1700213. | 3.0 | 69 |

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| 37 | 3D printing nano conductive multi-walled carbon nanotube scaffolds for nerve regeneration. Journal of Neural Engineering, 2018, 15, 016018. | 3.5 | 176 |
| 38 | Single-step synthesis of carbon encapsulated magnetic nanoparticles in arc plasma and potential biomedical applications. Journal of Colloid and Interface Science, 2018, 509, 414-421. | 9.4 | 23 |
| 39 | Bio-Based Polymers for 3D Printing of Bioscaffolds. Polymer Reviews, 2018, 58, 668-687. | 10.9 | 67 |
| 40 | Directly Induced Neural Differentiation of Human Adipose-Derived Stem Cells Using Three-Dimensional Culture System of Conductive Microwell with Electrical Stimulation. Tissue Engineering - Part A, 2018, 24, 537-545. | 3.1 | 28 |
| 41 | 3D bioprinting for cardiovascular regeneration and pharmacology. Advanced Drug Delivery Reviews, 2018, 132, 252-269. | 13.7 | 115 |
| 42 | Aggregation State of Metal-Based Nanomaterials at the Pulmonary Surfactant Film Determines Biophysical Inhibition. Environmental Science & Technology, 2018, 52, 8920-8929. | 10.0 | 38 |
| 43 | Stereolithographic 4D Bioprinting of Multiresponsive Architectures for Neural Engineering. Advanced Biology, 2018, 2, 1800101. | 3.0 | 114 |
| 44 | Enhanced neural stem cell functions in conductive annealed carbon nanofibrous scaffolds with electrical stimulation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2485-2494. | 3.3 | 89 |
| 45 | Development of Novel 3-D Printed Scaffolds With Core-Shell Nanoparticles for Nerve Regeneration. IEEE Transactions on Biomedical Engineering, 2017, 64, 408-418. | 4.2 | 62 |
| 46 | Enhanced bone tissue regeneration using a 3D printed microstructure incorporated with a hybrid nano hydrogel. Nanoscale, 2017, 9, 5055-5062. | 5.6 | 121 |
| 47 | 3D bioprinted graphene oxide-incorporated matrix for promoting chondrogenic differentiation of human bone marrow mesenchymal stem cells. Carbon, 2017, 116, 615-624. | 10.3 | 145 |
| 48 | 3D printing scaffold coupled with low level light therapy for neural tissue regeneration. Biofabrication, 2017, 9, 025002. | 7.1 | 68 |
| 49 | Fabrication of a Highly Aligned Neural Scaffold via a Table Top Stereolithography 3D Printing and Electrospinning . Tissue Engineering - Part A, 2017, 23, 491-502. | 3.1 | 125 |
| 50 | 3D Bioprinting for Organ Regeneration. Advanced Healthcare Materials, 2017, 6, 1601118. | 7.6 | 385 |
| 51 | Integrating three-dimensional printing and nanotechnology for musculoskeletal regeneration. Nanotechnology, 2017, 28, 382001. | 2.6 | 22 |
| 52 | 4D printing of polymeric materials for tissue and organ regeneration. Materials Today, 2017, 20, 577-591. | 14.2 | 292 |
| 53 | Three-Dimensional Printing Articular Cartilage: Recapitulating the Complexity of Native Tissue . Tissue Engineering - Part B: Reviews, 2017, 23, 225-236. | 4.8 | 55 |
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54 Biomaterials and 3D Printing Techniques for Neural Tissue Regeneration. , 2016, , 1-24.

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|----|--|------|-----------|
| 55 | A 3D printed nano bone matrix for characterization of breast cancer cell and osteoblast interactions. Nanotechnology, 2016, 27, 315103. | 2.6 | 62 |
| 56 | Synergistic Effect of Cold Atmospheric Plasma and Drug Loaded Core-shell Nanoparticles on Inhibiting Breast Cancer Cell Growth. Scientific Reports, 2016, 6, 21974. | 3.3 | 70 |
| 57 | Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. Acta Biomaterialia, 2016, 39, 25-33. | 8.3 | 71 |
| 58 | 3D printing of novel osteochondral scaffolds with graded microstructure. Nanotechnology, 2016, 27, 414001. | 2.6 | 62 |
| 59 | Biologically Inspired Smart Release System Based on 3D Bioprinted Perfused Scaffold for Vascularized Tissue Regeneration. Advanced Science, 2016, 3, 1600058. | 11.2 | 116 |
| 60 | Lipid Coated Microbubbles and Low Intensity Pulsed Ultrasound Enhance Chondrogenesis of Human Mesenchymal Stem Cells in 3D Printed Scaffolds. Scientific Reports, 2016, 6, 37728. | 3.3 | 39 |
| 61 | Hierarchical Fabrication of Engineered Vascularized Bone Biphasic Constructs via Dual 3D Bioprinting: Integrating Regional Bioactive Factors into Architectural Design. Advanced Healthcare Materials, 2016, 5, 2174-2181. | 7.6 | 153 |
| 62 | 4D printing smart biomedical scaffolds with novel soybean oil epoxidized acrylate. Scientific Reports, 2016, 6, 27226. | 3.3 | 296 |
| 63 | Gelatin methacrylamide hydrogel with graphene nanoplatelets for neural cell-laden 3D bioprinting. , 2016, 2016, 4185-4188. | | 56 |
| 64 | Improved Human Bone Marrow Mesenchymal Stem Cell Osteogenesis in 3D Bioprinted Tissue Scaffolds with Low Intensity Pulsed Ultrasound Stimulation. Scientific Reports, 2016, 6, 32876. | 3.3 | 99 |
| 65 | Four-Dimensional Printing Hierarchy Scaffolds with Highly Biocompatible Smart Polymers for Tissue Engineering Applications. Tissue Engineering - Part C: Methods, 2016, 22, 952-963. | 2.1 | 128 |
| 66 | 3D Bioprinting a Cell-Laden Bone Matrix for Breast Cancer Metastasis Study. ACS Applied Materials & Interfaces, 2016, 8, 30017-30026. | 8.0 | 234 |
| 67 | Simulated Body Fluid Nucleation of Three-Dimensional Printed Elastomeric Scaffolds for Enhanced Osteogenesis. Tissue Engineering - Part A, 2016, 22, 940-948. | 3.1 | 14 |
| 68 | Enhanced human bone marrow mesenchymal stem cell chondrogenic differentiation in electrospun constructs with carbon nanomaterials. Carbon, 2016, 97, 1-13. | 10.3 | 66 |
| 69 | A synergistic approach to the design, fabrication and evaluation of 3D printed micro and nano featured scaffolds for vascularized bone tissue repair. Nanotechnology, 2016, 27, 064001. | 2.6 | 126 |
| 70 | Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. Journal of Colloid and Interface Science, 2016, 469, 129-137. | 9.4 | 87 |
| 71 | 3D printed nanocomposite matrix for the study of breast cancer bone metastasis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 69-79. | 3.3 | 162 |
| 72 | Cold Atmospheric Plasma Modified Electrospun Scaffolds with Embedded Microspheres for Improved Cartilage Regeneration. PLoS ONE, 2015, 10, e0134729. | 2.5 | 29 |

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| 73 | Enhanced human bone marrow mesenchymal stem cell functions on cathodic arc plasma-treated titanium. International Journal of Nanomedicine, 2015, 10, 7385. | 6.7 | 8 |
| 74 | Engineering a biomimetic three-dimensional nanostructured bone model for breast cancer bone metastasis study. Acta Biomaterialia, 2015, 14, 164-174. | 8.3 | 70 |
| 75 | Nanotechnology: A Toolkit for Cell Behavior. , 2015, , 1-24. | | 1 |
| 76 | Highly aligned nanocomposite scaffolds by electrospinning and electrospraying for neural tissue regeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 693-704. | 3.3 | 108 |
| 77 | Integrating biologically inspired nanomaterials and table-top stereolithography for 3D printed biomimetic osteochondral scaffolds. Nanoscale, 2015, 7, 14010-14022. | 5.6 | 172 |
| 78 | Design of a Novel 3D Printed Bioactive Nanocomposite Scaffold for Improved Osteochondral Regeneration. Cellular and Molecular Bioengineering, 2015, 8, 416-432. | 2.1 | 66 |
| 79 | Three-Dimensional Printing of Nanomaterial Scaffolds for Complex Tissue Regeneration. Tissue Engineering - Part B: Reviews, 2015, 21, 103-114. | 4.8 | 178 |
| 80 | Development of Novel Three-Dimensional Printed Scaffolds for Osteochondral Regeneration. Tissue Engineering - Part A, 2015, 21, 403-415. | 3.1 | 80 |
| 81 | Nanotechnology: A Toolkit for Cell Behavior. , 2015, , 3-32. | | 0 |
| 82 | Enhanced Human Bone Marrow Mesenchymal Stem Cell Chondrogenic Differentiation on Cold Atmospheric Plasma Modified Cartilage Scaffold. Materials Research Society Symposia Proceedings, 2014, 1723, 1. | 0.1 | 3 |
| 83 | Biomimetic biphasic 3â€Ð nanocomposite scaffold for osteochondral regeneration. AICHE Journal, 2014, 60, 432-442. | 3.6 | 26 |
| 84 | Design of Biomimetic and Bioactive Cold Plasma-Modified Nanostructured Scaffolds for Enhanced Osteogenic Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells. Tissue Engineering - Part A, 2014, 20, 1060-1071. | 3.1 | 73 |
| 85 | 3D nano/microfabrication techniques and nanobiomaterials for neural tissue regeneration. Nanomedicine, 2014, 9, 859-875. | 3.3 | 98 |
| 86 | Enhanced human bone marrow mesenchymal stem cell functions in novel 3D cartilage scaffolds with hydrogen treated multi-walled carbon nanotubes. Nanotechnology, 2013, 24, 365102. | 2.6 | 56 |
| 87 | Novel biologically-inspired rosette nanotube PLLA scaffolds for improving human mesenchymal stem cell chondrogenic differentiation. Biomedical Materials (Bristol), 2013, 8, 065003. | 3.3 | 42 |
| 88 | Cold Atmospheric Plasma for Selectively Ablating Metastatic Breast Cancer Cells. PLoS ONE, 2013, 8, e73741. | 2.5 | 170 |
| 89 | Greater Osteoblast and Mesenchymal Stem Cell Adhesion and Proliferation on Titanium with Hydrothermally Treated Nanocrystalline Hydroxyapatite/Magnetically Treated Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2012, 12, 7692-7702. | 0.9 | 40 |
| 90 | Biomimetic three-dimensional nanocrystalline hydroxyapatite and magnetically synthesized single-walled carbon nanotube chitosan nanocomposite for bone regeneration. International Journal of Nanomedicine, 2012, 7, 2087. | 6.7 | 105 |

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| 91 | Electrospun Fibrous Scaffolds for Bone and Cartilage Tissue Generation: Recent Progress and Future Developments. Tissue Engineering - Part B: Reviews, 2012, 18, 478-486. | 4.8 | 56 |
| 92 | Nanobiotechnology and Nanostructured Therapeutic Delivery Systems. Recent Patents on Biomedical Engineering, 2012, 5, 29-40. | 0.5 | 5 |
| 93 | Recent Progress in Interfacial Tissue Engineering Approaches for Osteochondral Defects. Annals of Biomedical Engineering, 2012, 40, 1628-1640. | 2.5 | 83 |