

Tao Xu

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

5,674
citations

331670

21
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

5421
citing authors

#	ARTICLE	IF	CITATIONS
1	Inkjet printing of viable mammalian cells. <i>Biomaterials</i> , 2005, 26, 93-99.	11.4	914
2	Application of inkjet printing to tissue engineering. <i>Biotechnology Journal</i> , 2006, 1, 910-917.	3.5	695
3	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , 2016, 8, 013001.	7.1	523
4	Complex heterogeneous tissue constructs containing multiple cell types prepared by inkjet printing technology. <i>Biomaterials</i> , 2013, 34, 130-139.	11.4	518
5	Hybrid printing of mechanically and biologically improved constructs for cartilage tissue engineering applications. <i>Biofabrication</i> , 2013, 5, 015001.	7.1	475
6	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018, 36, 384-402.	9.3	465
7	Viability and electrophysiology of neural cell structures generated by the inkjet printing method. <i>Biomaterials</i> , 2006, 27, 3580-8.	11.4	410
8	Inkjet Bioprinting of Biomaterials. <i>Chemical Reviews</i> , 2020, 120, 10793-10833.	47.7	332
9	In Situ Bioprinting of Autologous Skin Cells Accelerates Wound Healing of Extensive Excisional Full-Thickness Wounds. <i>Scientific Reports</i> , 2019, 9, 1856.	3.3	297
10	Fabrication and characterization of bio-engineered cardiac pseudo tissues. <i>Biofabrication</i> , 2009, 1, 035001.	7.1	153
11	Construction of high-density bacterial colony arrays and patterns by the ink-jet method. <i>Biotechnology and Bioengineering</i> , 2004, 85, 29-33.	3.3	124
12	High-Throughput Production of Single-Cell Microparticles Using an Inkjet Printing Technology. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	2.2	102
13	Coaxial 3D bioprinting of self-assembled multicellular heterogeneous tumor fibers. <i>Scientific Reports</i> , 2017, 7, 1457.	3.3	100
14	Electrophysiological characterization of embryonic hippocampal neurons cultured in a 3D collagen hydrogel. <i>Biomaterials</i> , 2009, 30, 4377-4383.	11.4	96
15	Inkjet-Mediated Gene Transfection into Living Cells Combined with Targeted Delivery. <i>Tissue Engineering - Part A</i> , 2009, 15, 95-101.	3.1	96
16	Coaxial extrusion bioprinted shell-core hydrogel microfibers mimic glioma microenvironment and enhance the drug resistance of cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 291-299.	5.0	83
17	High throughput miniature drug-screening platform using bioprinting technology. <i>Biofabrication</i> , 2012, 4, 035001.	7.1	73
18	Preliminary engineering for <i>in situ in vivo</i> bioprinting: a novel micro bioprinting platform for <i>in situ in vivo</i> bioprinting at a gastric wound site. <i>Biofabrication</i> , 2020, 12, 045020.	7.1	47

#	ARTICLE	IF	CITATIONS
19	3D bioprinted glioma cell-laden scaffolds enriching glioma stem cells via epithelial-mesenchymal transition. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 383-391.	4.0	46
20	Characterization of Cell Constructs Generated With Inkjet Printing Technology Using In Vivo Magnetic Resonance Imaging. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	2.2	36
21	3D bioprinted rat Schwann cell-laden structures with shape flexibility and enhanced nerve growth factor expression. <i>3 Biotech</i> , 2018, 8, 342.	2.2	29
22	Adaptive multi-degree-of-freedom in situ bioprinting robot for hair-follicle-inclusive skin repair: A preliminary study conducted in mice. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	7.1	21
23	Layer-by-layer printing of cells and its application to tissue engineering. <i>Materials Research Society Symposia Proceedings</i> , 2004, 845, 5.	0.1	14
24	A coaxially extruded heterogeneous core-shell fiber with Schwann cells and neural stem cells. <i>International Journal of Energy Production and Management</i> , 2020, 7, 131-139.	3.7	12
25	A scalable coaxial bioprinting technology for mesenchymal stem cell microfiber fabrication and high extracellular vesicle yield. <i>Biofabrication</i> , 2022, 14, 015012.	7.1	10
26	Fabricating Neural and Cardiomyogenic Stem Cell Structures by a Novel Rapid Prototyping-the Inkjet Printing Method. <i>Materials Research Society Symposia Proceedings</i> , 2004, 845, 30.	0.1	1
27	Bioprinting of Human Cord Blood-Derived CD34+ Cells and Exploration of the Multilineage Differentiation Ability in Vitro. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2592-2604.	5.2	1
28	Bio-printing of living organized tissues using an inkjet technology. <i>FASEB Journal</i> , 2007, 21, A636.	0.5	1
29	Three-Dimensional Tissue Printing Technology. <i>Manuals in Biomedical Research</i> , 2007, , 183-191.	0.0	0