

# Feng Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9162983/publications.pdf>

Version: 2024-02-01

55  
papers

4,211  
citations

186265

28  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

6512  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxia enhances proliferation and tissue formation of human mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 948-953.	2.1	444
2	Effects of hypoxia on human mesenchymal stem cell expansion and plasticity in 3D constructs. <i>Journal of Cellular Physiology</i> , 2006, 207, 331-339.	4.1	374
3	Increasing Mechanical Strength of Gelatin Hydrogels by Divalent Metal Ion Removal. <i>Scientific Reports</i> , 2014, 4, 4706.	3.3	340
4	Biodegradable Metals for Cardiovascular Stents: from Clinical Concerns to Recent Zn-Alloys. <i>Advanced Healthcare Materials</i> , 2016, 5, 1121-1140.	7.6	326
5	Perfusion bioreactor system for human mesenchymal stem cell tissue engineering: Dynamic cell seeding and construct development. <i>Biotechnology and Bioengineering</i> , 2005, 91, 482-493.	3.3	227
6	Effects of hydroxyapatite in 3-D chitosan-gelatin polymer network on human mesenchymal stem cell construct development. <i>Biomaterials</i> , 2006, 27, 1859-1867.	11.4	220
7	Metallic zinc exhibits optimal biocompatibility for bioabsorbable endovascular stents. <i>Materials Science and Engineering C</i> , 2015, 56, 467-472.	7.3	192
8	Effects of shear stress on 3-D human mesenchymal stem cell construct development in a perfusion bioreactor system: Experiments and hydrodynamic modeling. <i>Biotechnology and Bioengineering</i> , 2007, 96, 584-595.	3.3	187
9	Tissue Engineering at the Blood-Contacting Surface: A Review of Challenges and Strategies in Vascular Graft Development. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701461.	7.6	178
10	Decellularization of Fibroblast Cell Sheets for Natural Extracellular Matrix Scaffold Preparation. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 77-87.	2.1	153
11	In Vitro Cytotoxicity, Adhesion, and Proliferation of Human Vascular Cells Exposed to Zinc. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 634-642.	5.2	136
12	A Moldable Nanocomposite Hydrogel Composed of a Mussel-Inspired Polymer and a Nanosilicate as a Fit-to-Shape Tissue Sealant. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4224-4228.	13.8	134
13	Effects of Oxygen Transport on 3-D Human Mesenchymal Stem Cell Metabolic Activity in Perfusion and Static Cultures: Experiments and Mathematical Model. <i>Biotechnology Progress</i> , 2008, 21, 1269-1280.	2.6	112
14	Pre-vascularization Enhances Therapeutic Effects of Human Mesenchymal Stem Cell Sheets in Full Thickness Skin Wound Repair. <i>Theranostics</i> , 2017, 7, 117-131.	10.0	100
15	Porous biocompatible three-dimensional scaffolds of cellulose microfiber/gelatin composites for cell culture. <i>Acta Biomaterialia</i> , 2010, 6, 2132-2139.	8.3	88
16	Upgrading prevascularization in tissue engineering: A review of strategies for promoting highly organized microvascular network formation. <i>Acta Biomaterialia</i> , 2019, 95, 112-130.	8.3	78
17	Surface deflection reduces cytotoxicity of Zn(2-methylimidazole) <sub>2</sub> (ZIF-8) without compromising its drug delivery capacity. <i>RSC Advances</i> , 2016, 6, 4128-4135.	3.6	68
18	Highly Aligned Nanofibrous Scaffold Derived from Decellularized Human Fibroblasts. <i>Advanced Functional Materials</i> , 2014, 24, 3027-3035.	14.9	61

#	ARTICLE	IF	CITATIONS
19	A Critical Review of Microelectrode Arrays and Strategies for Improving Neural Interfaces. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900558.	7.6	58
20	Natural Extracellular Matrix for Cellular and Tissue Biomanufacturing. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1462-1476.	5.2	54
21	Polydopamine and collagen coated micro-grated polydimethylsiloxane for human mesenchymal stem cell culture. <i>Bioactive Materials</i> , 2019, 4, 142-150.	15.6	53
22	Luminescent Probes for Sensitive Detection of pH Changes in Live Cells through Two Near-Infrared Luminescence Channels. <i>ACS Sensors</i> , 2017, 2, 924-931.	7.8	46
23	Perfusion affects the tissue developmental patterns of human mesenchymal stem cells in 3D scaffolds. <i>Journal of Cellular Physiology</i> , 2009, 219, 421-429.	4.1	45
24	Engineering stem cell cardiac patch with microvascular features representative of native myocardium. <i>Theranostics</i> , 2019, 9, 2143-2157.	10.0	44
25	Low Oxygen Tension and Synthetic Nanogratings Improve the Uniformity and Stemness of Human Mesenchymal Stem Cell Layer. <i>Molecular Therapy</i> , 2010, 18, 1010-1018.	8.2	43
26	Osteogenic Differentiation Evaluation of an Engineered Extracellular Matrix Based Tissue Sheet for Potential Periosteum Replacement. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23239-23247.	8.0	38
27	Bioactive polydimethylsiloxane surface for optimal human mesenchymal stem cell sheet culture. <i>Bioactive Materials</i> , 2018, 3, 167-173.	15.6	38
28	Aligned Nanofibrous Cell-Derived Extracellular Matrix for Anisotropic Vascular Graft Construction. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601333.	7.6	33
29	Constructing biomimetic cardiac tissues: a review of scaffold materials for engineering cardiac patches. <i>Emergent Materials</i> , 2019, 2, 181-191.	5.7	33
30	Updates on clinical trials evaluating the regenerative potential of allogenic mesenchymal stem cells in COVID-19. <i>Npj Regenerative Medicine</i> , 2021, 6, 37.	5.2	31
31	Hypoxia Created Human Mesenchymal Stem Cell Sheet for Prevascularized 3D Tissue Construction. <i>Advanced Healthcare Materials</i> , 2016, 5, 342-352.	7.6	28
32	Prevascularization of natural nanofibrous extracellular matrix for engineering completely biological three-dimensional prevascularized tissues for diverse applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1325-e1336.	2.7	28
33	Fabrication and Short-Term in Vivo Performance of a Natural Elastic Lamina-Polymeric Hybrid Vascular Graft. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16202-16212.	8.0	26
34	Physiologically Low Oxygen Enhances Biomolecule Production and Stemness of Mesenchymal Stem Cell Spheroids. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 360-369.	2.1	26
35	Motion analysis and removal in intensity variation based OCT angiography. <i>Biomedical Optics Express</i> , 2014, 5, 3833.	2.9	19
36	In situ synthesis of biocompatible imidazolium salt hydrogels with antimicrobial activity. <i>Acta Biomaterialia</i> , 2019, 99, 133-140.	8.3	19

#	ARTICLE	IF	CITATIONS
37	Facile electrochemical synthesis of antimicrobial TiO <sub>2</sub> nanotube arrays. <i>International Journal of Nanomedicine</i> , 2014, 9, 5177.	6.7	18
38	Disturbed flow's impact on cellular changes indicative of vascular aneurysm initiation, expansion, and rupture: A pathological and methodological review. <i>Journal of Cellular Physiology</i> , 2022, 237, 278-300.	4.1	17
39	Effects of local nitric oxide release on human mesenchymal stem cell attachment and proliferation on gelatin hydrogel surface. <i>Surface Innovations</i> , 2013, 1, 224-232.	2.3	13
40	A Moldable Nanocomposite Hydrogel Composed of a Mussel-Inspired Polymer and a Nanosilicate as a Fit-to-Shape Tissue Sealant. <i>Angewandte Chemie</i> , 2017, 129, 4288-4292.	2.0	13
41	Nitric oxide regulates cell behavior on an interactive cell-derived extracellular matrix scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3807-3814.	4.0	12
42	Low-Oxygen Pretreatment Enhances Endothelial Cell Growth and Retention Under Shear Stress. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 135-146.	2.1	10
43	A step-by-step protocol for generating human fibroblast cell-derived completely biological extracellular matrix scaffolds. <i>Methods in Cell Biology</i> , 2020, 156, 3-13.	1.1	7
44	Semishell Janus Nanoparticle-Enabled pH-Responsive Rod-Shaped Assembly for Photothermal Therapy. <i>ACS Applied Nano Materials</i> , 2022, 5, 871-880.	5.0	6
45	Protocols for Full Thickness Skin Wound Repair Using Prevascularized Human Mesenchymal Stem Cell Sheet. <i>Methods in Molecular Biology</i> , 2018, 1879, 187-200.	0.9	5
46	Fabrication of a Completely Biological and Anisotropic Human Mesenchymal Stem Cell-Based Vascular Graft. <i>Methods in Molecular Biology</i> , 2022, 2375, 101-114.	0.9	5
47	Engineering the Lymphatic Network: A Solution to Lymphedema. <i>Advanced Healthcare Materials</i> , 2021, 10, 2001537.	7.6	5
48	Preservation of microvascular integrity and immunomodulatory property of prevascularized human mesenchymal stem cell sheets. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 207-218.	2.7	5
49	Tissue Engineering-Based Strategies for Diabetic Foot Ulcer Management. <i>Advances in Wound Care</i> , 2023, 12, 145-167.	5.1	5
50	Enhancement of Lymphangiogenesis by Human Mesenchymal Stem Cell Sheet. <i>Advanced Healthcare Materials</i> , 2022, 11, .	7.6	4
51	Mesenchymal stem cells for pre-vascularization of engineered tissues. <i>Journal of Stem Cell Research &amp; Therapeutics</i> , 2018, 4, .	0.1	3
52	Bioengineering Scaffolds for Regenerative Engineering. , 2019, , 444-461.		2
53	Prevascularized Stem Cell Sheet for Full-Thickness Skin Wound Repair. <i>Recent Clinical Techniques, Results, and Research in Wounds</i> , 2018, , 167-172.	0.1	1
54	Computational Assessment of Hemodynamics Vortices Within the Cerebral Vasculature Using. <i>Methods in Molecular Biology</i> , 2022, 2375, 247-260.	0.9	0

#	ARTICLE	IF	CITATIONS
55	Effects of Short Term Hypoxia-Preconditioning on Glial Phenotype Induction of Human Mesenchymal Stem Cells. <i>AIMS Cell and Tissue Engineering</i> , 2017, 1, 47-63.	0.4	0