

Ngan F Huang

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

6,462
citations

61984

43
h-index

64796

79
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92
all docs

92
docs citations

92
times ranked

9114
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Effects of Basic Fibroblast Growth Factor Delivery or Voluntary Exercise on Muscle Regeneration after Volumetric Muscle Loss. <i>Bioengineering</i> , 2022, 9, 37.	3.5	7
2	Dual Delivery of BMP2 and IGF1 Through Injectable Hydrogel Promotes Cranial Bone Defect Healing. <i>Tissue Engineering - Part A</i> , 2022, 28, 760-769.	3.1	16
3	Advances in three-dimensional bioprinted stem cell-based tissue engineering for cardiovascular regeneration. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 169, 13-27.	1.9	8
4	peri-Adventitial delivery of smooth muscle cells in porous collagen scaffolds for treatment of experimental abdominal aortic aneurysm. <i>Biomaterials Science</i> , 2021, 9, 6903-6914.	5.4	7
5	Engineering Cardiovascular Tissue Chips for Disease Modeling and Drug Screening Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 673212.	4.1	3
6	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , 2021, 124, 112057.	7.3	35
7	Modest Gains After an 8-Week Exercise Program Correlate With Reductions in Non-traditional Markers of Cardiovascular Risk. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 669110.	2.4	3
8	What Makes a Great Mentor: Interviews With Recipients of the ATVB Mentor of Women Award. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2641-2647.	2.4	3
9	Extracellular Matrix-Based Biomaterials for Cardiovascular Tissue Engineering. <i>Journal of Cardiovascular Development and Disease</i> , 2021, 8, 137.	1.6	27
10	Delivery of hepatocyte growth factor mRNA from nanofibrillar scaffolds in a pig model of peripheral arterial disease. <i>Regenerative Medicine</i> , 2020, 15, 1761-1773.	1.7	5
11	Delivery of Human Stromal Vascular Fraction Cells on Nanofibrillar Scaffolds for Treatment of Peripheral Arterial Disease. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 689.	4.1	8
12	Transplantation of insulin-like growth factor-1 laden scaffolds combined with exercise promotes neuroregeneration and angiogenesis in a preclinical muscle injury model. <i>Biomaterials Science</i> , 2020, 8, 5376-5389.	5.4	16
13	Pre-Clinical Cell Therapeutic Approaches for Repair of Volumetric Muscle Loss. <i>Bioengineering</i> , 2020, 7, 97.	3.5	21
14	Multi-scale cellular engineering: From molecules to organ-on-a-chip. <i>APL Bioengineering</i> , 2020, 4, 010906.	6.2	8
15	Effects of nicotine on the translation of stem cell therapy. <i>Regenerative Medicine</i> , 2020, 15, 1679-1688.	1.7	5
16	Vascularization of Engineered Spatially Patterned Myocardial Tissue Derived From Human Pluripotent Stem Cells in vivo. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 208.	4.1	23
17	Treatment of volumetric muscle loss in mice using nanofibrillar scaffolds enhances vascular organization and integration. <i>Communications Biology</i> , 2019, 2, 170.	4.4	64
18	Engineering Biomimetic Materials for Skeletal Muscle Repair and Regeneration. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801168.	7.6	90

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19	Endothelial Cell Mechanotransduction in the Dynamic Vascular Environment. <i>Advanced Biology</i> , 2019, 3, e1800252.	3.0	60
20	Aligned Nanofibrillar Scaffolds for Controlled Delivery of Modified mRNA. <i>Tissue Engineering - Part A</i> , 2019, 25, 121-130.	3.1	20
21	Protein-engineered hydrogels enhance the survival of induced pluripotent stem cell-derived endothelial cells for treatment of peripheral arterial disease. <i>Biomaterials Science</i> , 2018, 6, 614-622.	5.4	58
22	Multicellular Interactions in 3D Engineered Myocardial Tissue. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 147.	2.4	27
23	Big bottlenecks in cardiovascular tissue engineering. <i>Communications Biology</i> , 2018, 1, 199.	4.4	66
24	Rehabilitative exercise and spatially patterned nanofibrillar scaffolds enhance vascularization and innervation following volumetric muscle loss. <i>Npj Regenerative Medicine</i> , 2018, 3, 16.	5.2	47
25	Small Molecule Derived From Carboxyethylpyrrole Protein Adducts Promotes Angiogenesis in a Mouse Model of Peripheral Arterial Disease. <i>Journal of the American Heart Association</i> , 2018, 7, e009234.	3.7	10
26	Near-Infrared IIb Fluorescence Imaging of Vascular Regeneration with Dynamic Tissue Perfusion Measurement and High Spatial Resolution. <i>Advanced Functional Materials</i> , 2018, 28, 1803417.	14.9	107
27	Stem Cells: Efficacy in Peripheral Vascular Diseases. , 2018, , .		0
28	Regulation of the microenvironment for cardiac tissue engineering. <i>Regenerative Medicine</i> , 2017, 12, 187-201.	1.7	24
29	A comparison of the pro-angiogenic potential of human induced pluripotent stem cell derived endothelial cells and induced endothelial cells in a murine model of peripheral arterial disease. <i>International Journal of Cardiology</i> , 2017, 234, 81-89.	1.7	33
30	Boosting the down-shifting luminescence of rare-earth nanocrystals for biological imaging beyond 1500nm. <i>Nature Communications</i> , 2017, 8, 737.	12.8	416
31	Induced Pluripotent Stem Cell-Derived Endothelial Cells in Insulin Resistance and Metabolic Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 2038-2042.	2.4	19
32	Anisotropic microfibrillar scaffolds enhance the organization and function of cardiomyocytes derived from induced pluripotent stem cells. <i>Biomaterials Science</i> , 2017, 5, 1567-1578.	5.4	68
33	Combinatorial Extracellular Matrix Microenvironments for Probing Endothelial Differentiation of Human Pluripotent Stem Cells. <i>Scientific Reports</i> , 2017, 7, 6551.	3.3	20
34	Microfibrillar Scaffolds Enhance Endothelial Differentiation and Organization of Induced Pluripotent Stem Cells. <i>Cellular and Molecular Bioengineering</i> , 2017, 10, 417-432.	2.1	21
35	Polymer-DNA Nanoparticle-Induced CXCR4 Overexpression Improves Stem Cell Engraftment and Tissue Regeneration in a Mouse Hindlimb Ischemia Model. <i>Theranostics</i> , 2016, 6, 1176-1189.	10.0	23
36	Combinatorial extracellular matrix microenvironments promote survival and phenotype of human induced pluripotent stem cell-derived endothelial cells in hypoxia. <i>Acta Biomaterialia</i> , 2016, 44, 188-199.	8.3	47

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37	Distilling complexity to advance cardiac tissue engineering. <i>Science Translational Medicine</i> , 2016, 8, 342ps13.	12.4	138
38	In Vivo Study of Human Endothelial-Pericyte Interaction Using the Matrix Gel Plug Assay in Mouse. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	6
39	Vascularization of three-dimensional engineered tissues for regenerative medicine applications. <i>Acta Biomaterialia</i> , 2016, 41, 17-26.	8.3	121
40	Aligned nanofibrillar collagen scaffolds “ Guiding lymphangiogenesis for treatment of acquired lymphedema. <i>Biomaterials</i> , 2016, 102, 259-267.	11.4	55
41	Targeted delivery of human iPS-ECs overexpressing IL-8 receptors inhibits neointimal and inflammatory responses to vascular injury in the rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H705-H715.	3.2	12
42	Stem cell-based therapies to promote angiogenesis in ischemic cardiovascular disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H455-H465.	3.2	90
43	Nanoscale Patterning of Extracellular Matrix Alters Endothelial Function under Shear Stress. <i>Nano Letters</i> , 2016, 16, 410-419.	9.1	50
44	Aligned-Braided Nanofibrillar Scaffold with Endothelial Cells Enhances Arteriogenesis. <i>ACS Nano</i> , 2015, 9, 6900-6908.	14.6	58
45	Bilayered vascular graft derived from human induced pluripotent stem cells with biomimetic structure and function. <i>Regenerative Medicine</i> , 2015, 10, 745-755.	1.7	51
46	Manganese-Enhanced Magnetic Resonance Imaging Enables In Vivo Confirmation of Peri-Infarct Restoration Following Stem Cell Therapy in a Porcine Ischemia-Reperfusion Model. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	21
47	Activation of the Wnt/Planar Cell Polarity Pathway Is Required for Pericyte Recruitment during Pulmonary Angiogenesis. <i>American Journal of Pathology</i> , 2015, 185, 69-84.	3.8	60
48	Abstract 15060: Protein-Engineered Hydrogels for Improved Efficacy of Stem Cell-Based Injection Therapy in a Murine Model of Peripheral Arterial Disease. <i>Circulation</i> , 2015, 132, .	1.6	0
49	Near-Infrared II Fluorescence for Imaging Hindlimb Vessel Regeneration With Dynamic Tissue Perfusion Measurement. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 517-525.	2.6	88
50	Characterization of a Fluorescent Probe for Imaging Nitric Oxide. <i>Journal of Vascular Research</i> , 2014, 51, 68-79.	1.4	8
51	Microvascular Endothelial Cells Migrate Upstream and Align Against the Shear Stress Field Created by Impinging Flow. <i>Biophysical Journal</i> , 2014, 106, 366-374.	0.5	79
52	Role of Extracellular Matrix Signaling Cues in Modulating Cell Fate Commitment for Cardiovascular Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2014, 3, 628-641.	7.6	71
53	Avidity-controlled hydrogels for injectable co-delivery of induced pluripotent stem cell-derived endothelial cells and growth factors. <i>Journal of Controlled Release</i> , 2014, 191, 71-81.	9.9	82
54	Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes. <i>American Journal of Translational Research (discontinued)</i> , 2014, 6, 724-35.	0.0	32

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55	Abstract 83: Nanopatterned Collagen Scaffolds Promote Blood Perfusion in the Ischemic Limb. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	2.4	0
56	Spatial patterning of endothelium modulates cell morphology, adhesiveness and transcriptional signature. <i>Biomaterials</i> , 2013, 34, 2928-2937.	11.4	56
57	The modulation of endothelial cell morphology, function, and survival using anisotropic nanofibrillar collagen scaffolds. <i>Biomaterials</i> , 2013, 34, 4038-4047.	11.4	82
58	Tissue Engineering and Regenerative Medicine: Role of Extracellular Matrix Microenvironment. , 2013, , 313-323.		1
59	Conversion of Human Fibroblasts to Functional Endothelial Cells by Defined Factors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1366-1375.	2.4	113
60	Human induced pluripotent stem cell-derived endothelial cells exhibit functional heterogeneity. <i>American Journal of Translational Research (discontinued)</i> , 2013, 5, 21-35.	0.0	88
61	Chemotaxis of human induced pluripotent stem cell-derived endothelial cells. <i>American Journal of Translational Research (discontinued)</i> , 2013, 5, 510-20.	0.0	12
62	Endothelial Cells Derived From Nuclear Reprogramming. <i>Circulation Research</i> , 2012, 111, 1363-1375.	4.5	46
63	Multifunctional in vivo vascular imaging using near-infrared II fluorescence. <i>Nature Medicine</i> , 2012, 18, 1841-1846.	30.7	836
64	Aligned nanofibrillar collagen regulates endothelial organization and migration. <i>Regenerative Medicine</i> , 2012, 7, 649-661.	1.7	60
65	Bioluminescence Imaging of Stem Cell-Based Therapeutics for Vascular Regeneration. <i>Theranostics</i> , 2012, 2, 346-354.	10.0	31
66	Abstract 269: Collagen Topographical Patterning Modulates Endothelial Cell Morphology, Gene Expression and Function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, .	2.4	0
67	Mesenchymal Stem Cells for Tissue Regeneration. , 2011, , 49-70.		0
68	Regulation of the Matrix Microenvironment for Stem Cell Engineering and Regenerative Medicine. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1201-1214.	2.5	52
69	Endothelial Cells Derived From Human iPSCS Increase Capillary Density and Improve Perfusion in a Mouse Model of Peripheral Arterial Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, e72-9.	2.4	230
70	Proteomic identification of biomarkers of vascular injury. <i>American Journal of Translational Research (discontinued)</i> , 2011, 3, 139-48.	0.0	10
71	Biophysical and chemical effects of fibrin on mesenchymal stromal cell gene expression. <i>Acta Biomaterialia</i> , 2010, 6, 3947-3956.	8.3	27
72	A matrix micropatterning platform for cell localization and stem cell fate determination. <i>Acta Biomaterialia</i> , 2010, 6, 4614-4621.	8.3	49

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73	Role of Nitric Oxide Signaling in Endothelial Differentiation of Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2010, 19, 1617-1626.	2.1	37
74	Embryonic Stem Cell-Derived Endothelial Cells Engraft Into the Ischemic Hindlimb and Restore Perfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 984-991.	2.4	126
75	Engineering of aligned skeletal muscle by micropatterning. <i>American Journal of Translational Research (discontinued)</i> , 2010, 2, 43-55.	0.0	38
76	nAChRs Mediate Human Embryonic Stem Cell-Derived Endothelial Cells: Proliferation, Apoptosis, and Angiogenesis. <i>PLoS ONE</i> , 2009, 4, e7040.	2.5	50
77	Embryonic Stem Cell-Derived Endothelial Cells for Treatment of Hindlimb Ischemia. <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	15
78	Bone marrow-derived mesenchymal stem cells in fibrin augment angiogenesis in the chronically infarcted myocardium. <i>Regenerative Medicine</i> , 2009, 4, 527-538.	1.7	72
79	Murine Model of Hindlimb Ischemia. <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	142
80	Mesenchymal stem cells for vascular regeneration. <i>Regenerative Medicine</i> , 2008, 3, 877-892.	1.7	111
81	Chemical and Physical Regulation of Stem Cells and Progenitor Cells: Potential for Cardiovascular Tissue Engineering. <i>Tissue Engineering</i> , 2007, 13, 1809-1823.	4.6	35
82	Mechanobiology of mesenchymal stem cells and their use in cardiovascular repair. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 5098.	3.0	75
83	Antibody Targeting of Stem Cells to Infarcted Myocardium. <i>Stem Cells</i> , 2007, 25, 712-717.	3.2	78
84	Myotube Assembly on Nanofibrous and Micropatterned Polymers. <i>Nano Letters</i> , 2006, 6, 537-542.	9.1	293
85	A rodent model of myocardial infarction for testing the efficacy of cells and polymers for myocardial reconstruction. <i>Nature Protocols</i> , 2006, 1, 1596-1609.	12.0	37
86	Mechanotransduction in endothelial cell migration. <i>Journal of Cellular Biochemistry</i> , 2005, 96, 1110-1126.	2.6	213
87	Injectable Biopolymers Enhance Angiogenesis after Myocardial Infarction. <i>Tissue Engineering</i> , 2005, 11, 1860-1866.	4.6	181
88	Tissue engineering of muscle on micropatterned polymer films. , 2004, 2004, 4966-9.		11
89	Regulation of vascular smooth muscle cells by micropatterning. <i>Biochemical and Biophysical Research Communications</i> , 2003, 307, 883-890.	2.1	166
90	Differentiation of human embryonic stem cells on three-dimensional polymer scaffolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12741-12746.	7.1	652