Jianyi Zhang,,, Faha

List of Publications by Year
in descending order

224	11,064	59	95
papers	citations	h-index	g-index
		22099	38300

230	230	230	10750
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cardiac Repair in a Porcine Model of Acute Myocardial Infarction with Human Induced Pluripotent Stem Cell-Derived Cardiovascular Cells. Cell Stem Cell, 2014, 15, 750-761.	5.2	407
2	Contrast-enhanced first pass myocardial perfusion imaging: Correlation between myocardial blood flow in dogs at rest and during hyperemia. Magnetic Resonance in Medicine, 1993, 29, 485-497.	1.9	346
3	Large Cardiac Muscle Patches Engineered From Human Induced-Pluripotent Stem Cellâ€“Derived Cardiac Cells Improve Recovery From Myocardial Infarction in Swine. Circulation, 2018, 137, 1712-1730.	1.6	332
4	The Mitochondrial Calcium Uniporter Selectively Matches Metabolic Output to Acute Contractile Stress in the Heart. Cell Reports, 2015, 12, 15-22.	2.9	284
5	Myocardial Tissue Engineering With Cells Derived From Human-Induced Pluripotent Stem Cells and a Native-Like, High-Resolution, 3-Dimensionally Printed Scaffold. Circulation Research, 2017, 120, 1318-1325.	2.0	254
6	Bioenergetic and Functional Consequences of Bone Marrowâ€“Derived Multipotent Progenitor Cell Transplantation in Hearts With Postinfarction Left Ventricular Remodeling. Circulation, 2007, 115, 1866-1875.	1.6	248
7	The Role of the Sca-1+/CD31âˆ’Cardiac Progenitor Cell Population in Postinfarction Left Ventricular Remodeling. Stem Cells, 2006, 24, 1779-1788.	1.4	231
8	Transplanted Mesenchymal Stem Cells Reduce Autophagic Flux in Infarcted Hearts via the Exosomal Transfer of miR-125b. Circulation Research, 2018, 123, 564-578.	2.0	200
9	Acquisition of a Quantitative, Stoichiometrically Conserved Ratiometric Marker of Maturation Status in Stem Cell-Derived Cardiac Myocytes. Stem Cell Reports, 2014, 3, 594-605.	2.3	195
10	Early Regenerative Capacity in the Porcine Heart. Circulation, 2018, 138, 2798-2808.	1.6	192
11	Controlled Release of Stromal Cellâ€“Derived Factor-1alphaIn SituIncreases C-kit+Cell Homing to the Infarcted Heart. Tissue Engineering, 2007, 13, 2063-2071.	4.9	187
12	ATP-Sensitive K ⁺ Channels, Adenosine, and Nitric Oxideâ€“Mediated Mechanisms Account for Coronary Vasodilation During Exercise. Circulation Research, 1998, 82, 346-359.	2.0	181
13	Regenerative Potential of Neonatal Porcine Hearts. Circulation, 2018, 138, 2809-2816.	1.6	179
14	A PEGylated Fibrin Patch for Mesenchymal Stem Cell Delivery. Tissue Engineering, 2006, 12, 9-19.	4.9	175
15	In Situ Expansion, Differentiation, and Electromechanical Coupling of Human Cardiac Muscle in a 3D Bioprinted, Chambered Organoid. Circulation Research, 2020, 127, 207-224.	2.0	174
16	A Large-Scale Investigation of Hypoxia-Preconditioned Allogeneic Mesenchymal Stem Cells for Myocardial Repair in Nonhuman Primates. Circulation Research, 2016, 118, 970-983.	2.0	154
17	Circulating myocardial microRNAs from infarcted hearts are carried in exosomes and mobilise bone marrow progenitor cells. Nature Communications, 2019, 10, 959.	5.8	147
18	Distilling complexity to advance cardiac tissue engineering. Science Translational Medicine, 2016, 8, 342ps13.	5.8	138

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19	Bioenergetic abnormalities associated with severe left ventricular hypertrophy.. Journal of Clinical Investigation, 1993, 92, 993-1003.	3.9	135
20	Autologous stem cell transplantation for myocardial repair. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H501-H511.	1.5	133
21	Patching the Heart. Circulation Research, 2013, 113, 922-932.	2.0	131
22	Regional myocardial blood volume and flow: First-pass MR imaging with polylysine-Gd-DTPA. Journal of Magnetic Resonance Imaging, 1995, 5, 227-237.	1.9	130
23	Enhancing Efficacy of Stem Cell Transplantation to the Heart with a PEGylated Fibrin Biomatrix. Tissue Engineering - Part A, 2008, 14, 1025-1036.	1.6	128
24	Can We Engineer a Human Cardiac Patch for Therapy?. Circulation Research, 2018, 123, 244-265.	2.0	121
25	Lack of Remuscularization Following Transplantation of Human Embryonic Stem Cell-Derived Cardiovascular Progenitor Cells in Infarcted Nonhuman Primates. Circulation Research, 2018, 122, 958-969.	2.0	120
26	A Fibrin Patch-Based Enhanced Delivery of Human Embryonic Stem Cell-Derived Vascular Cell Transplantation in a Porcine Model of Postinfarction Left Ventricular Remodeling. Stem Cells, 2011, 29, 367-375.	1.4	118
27	Bach1 Represses Wnt/Î²-Catenin Signaling and Angiogenesis. Circulation Research, 2015, 117, 364-375.	2.0	113
28	CCND2 Overexpression Enhances the Regenerative Potency of Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes. Circulation Research, 2018, 122, 88-96.	2.0	113
29	Functional and Bioenergetic Consequences of Postinfarction Left Ventricular Remodeling in a New Porcine Model. Circulation, 1996, 94, 1089-1100.	1.6	113
30	Exosomes secreted by hiPSC-derived cardiac cells improve recovery from myocardial infarction in swine. Science Translational Medicine, 2020, 12, .	5.8	112
31	High-Energy Phosphate Metabolism and Creatine Kinase in Failing Hearts. Circulation, 2001, 103, 1570-1576.	1.6	111
32	Functional engineered human cardiac patches prepared from nature's platform improve heart function after acute myocardial infarction. Biomaterials, 2016, 105, 52-65.	5.7	105
33	Human Leukocyte Antigen Class I and II Knockout Human Induced Pluripotent Stem Cellâ€"Derived Cells: Universal Donor for Cell Therapy. Journal of the American Heart Association, 2018, 7, e010239.	1.6	103
34	Phosphate metabolite concentrations and ATP hydrolysis potential in normal and ischaemic hearts. Journal of Physiology, 2008, 586, 4193-4208.	1.3	102
35	Functional Consequences of Human Induced Pluripotent Stem Cell Therapy. Circulation, 2013, 127, 997-1008.	1.6	101
36	VEGF nanoparticles repair the heart after myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H278-H284.	1.5	101

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37	Multipotent Adult Progenitor Cells from Swine Bone Marrow. Stem Cells, 2006, 24, 2355-2366.	1.4	93
38	Functional Effects of a Tissue-Engineered Cardiac Patch From Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in a Rat Infarct Model. Stem Cells Translational Medicine, 2015, 4, 1324-1332.	1.6	90
39	Bioenergetic and Functional Consequences of Cellular Therapy. Circulation Research, 2012, 111, 455-468.	2.0	89
40	Lactate Promotes Synthetic Phenotype in Vascular Smooth Muscle Cells. Circulation Research, 2017, 121, 1251-1262.	2.0	87
41	Small extracellular vesicles containing miR-486-5p promote angiogenesis after myocardial infarction in mice and nonhuman primates. Science Translational Medicine, 2021, 13, .	5.8	87
42	Oxidative capacity in failing hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H541-H548.	1.5	84
43	Overcoming the Roadblocks to Cardiac Cell Therapy Using Tissue Engineering. Journal of the American College of Cardiology, 2017, 70, 766-775.	1.2	82
44	Derivation and High Engraftment of Patient-Specific Cardiomyocyte Sheet Using Induced Pluripotent Stem Cells Generated From Adult Cardiac Fibroblast. Circulation: Heart Failure, 2015, 8, 156-166.	1.6	81
45	Xenotransplantation of Long-Term-Cultured Swine Bone Marrow-Derived Mesenchymal Stem Cells. Stem Cells, 2007, 25, 612-620.	1.4	77
46	Functional Consequences of a Tissue-Engineered Myocardial Patch for Cardiac Repair in a Rat Infarct Model. Tissue Engineering - Part A, 2014, 20, 1325-1335.	1.6	77
47	From Microscale Devices to 3D Printing. Circulation Research, 2017, 120, 150-165.	2.0	71
48	Myocardial oxygenation at high workstates in hearts with left ventricular hypertrophy. Cardiovascular Research, 1999, 42, 616-626.	1.8	70
49	Myocardial Oxygenation During High Work States in Hearts With Postinfarction Remodeling. Circulation, 1999, 99, 942-948.	1.6	70
50	Functional and bioenergetic modulations in the infarct border zone following autologous mesenchymal stem cell transplantation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1772-H1780.	1.5	70
51	Correlation between transmural high energy phosphate levels and myocardial blood flow in the presence of graded coronary stenosis.. Circulation Research, 1990, 67, 660-673.	2.0	68
52	Multipotent adult progenitor cell transplantation increases vascularity and improves left ventricular function after myocardial infarction. Journal of Tissue Engineering and Regenerative Medicine, 2007, 1, 51-59.	1.3	68
53	Stem Cells for Myocardial Repair With Use of a Transarterial Catheter. Circulation, 2009, 120, S238-46.	1.6	67
54	Maturation of three-dimensional, hiPSC-derived cardiomyocyte spheroids utilizing cyclic, uniaxial stretch and electrical stimulation. PLoS ONE, 2019, 14, e0219442.	1.1	67

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55	Effect of Left Ventricular Hypertrophy Secondary to Chronic Pressure Overload on Transmural Myocardial 2-Deoxyglucose Uptake. Circulation, 1995, 92, 1274-1283.	1.6	67
56	Experimentally observed phenomena on cardiac energetics in heart failure emerge from simulations of cardiac metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7143-7148.	3.3	66
57	New Mass-Spectrometry-Compatible Degradable Surfactant for Tissue Proteomics. Journal of Proteome Research, 2015, 14, 1587-1599.	1.8	66
58	Big bottlenecks in cardiovascular tissue engineering. Communications Biology, 2018, 1, 199.	2.0	66
59	Spheroids of cardiomyocytes derived from human-induced pluripotent stem cells improve recovery from myocardial injury in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H327-H339.	1.5	65
60	Profound bioenergetic abnormalities in peri-infarct myocardial regions. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H648-H657.	1.5	62
61	Cyclin D2 Overexpression Enhances the Efficacy of Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes for Myocardial Repair in a Swine Model of Myocardial Infarction. Circulation, 2021, 144, 210-228.	1.6	61
62	Effective Cardiac Myocyte Differentiation of Human Induced Pluripotent Stem Cells Requires VEGF. PLoS ONE, 2013, 8, e53764.	1.1	60
63	Mitochondrial ATPase and high-energy phosphates in failing hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1319-H1326.	1.5	58
64	Thymosin Î²4 Increases the Potency of Transplanted Mesenchymal Stem Cells for Myocardial Repair. Circulation, 2013, 128, S32-41.	1.6	58
65	Bioenergetic and functional consequences of stem cell-based VEGF delivery in pressure-overloaded swine hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1393-H1405.	1.5	57
66	The influence of a spatiotemporal 3D environment on endothelial cell differentiation of human induced pluripotent stem cells. Biomaterials, 2014, 35, 3786-3793.	5.7	56
67	Deletion of BACH1 Attenuates Atherosclerosis by Reducing Endothelial Inflammation. Circulation Research, 2022, 130, 1038-1055.	2.0	55
68	HDAC inhibition induces autophagy and mitochondrial biogenesis to maintain mitochondrial homeostasis during cardiac ischemia/reperfusion injury. Journal of Molecular and Cellular Cardiology, 2019, 130, 36-48.	0.9	53
69	Bioenergetic Consequences of Left Ventricular Remodeling. Circulation, 1995, 92, 1011-1019.	1.6	52
70	Coronary pressure-flow relation in left ventricular hypertrophy. Importance of changes in back pressure versus changes in minimum resistance.. Circulation Research, 1993, 72, 579-587.	2.0	51
71	Oxygen delivery does not limit cardiac performance during high work states. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H50-H57.	1.5	51
72	Targeting exosomeâ€associated human antigen R attenuates fibrosis and inflammation in diabetic heart. FASEB Journal, 2020, 34, 2238-2251.	0.2	50

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73	Signaling and expression for mitochondrial membrane proteins during left ventricular remodeling and contractile failure after myocardial infarction. Journal of the American College of Cardiology, 2000, 36, 282-287.	1.2	49
74	Bach1 Induces Endothelial Cell Apoptosis and Cell-Cycle Arrest through ROS Generation. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	1.9	49
75	Deciphering Role of Wnt Signalling in Cardiac Mesoderm and Cardiomyocyte Differentiation from Human iPSCs: Four-dimensional control of Wnt pathway for hiPSC-CMs differentiation. Scientific Reports, 2019, 9, 19389.	1.6	49
76	ATP Production Rate via Creatine Kinase or ATP Synthase In Vivo. Circulation Research, 2011, 108, 653-663.	2.0	48
77	Relationships Between Myocardial Bioenergetic and Left Ventricular Function in Hearts With Volume-Overload Hypertrophy. Circulation, 1997, 96, 334-343.	1.6	48
78	Differentiation of Human Induced-Pluripotent Stem Cells into Smooth-Muscle Cells: Two Novel Protocols. PLoS ONE, 2016, 11, e0147155.	1.1	48
79	Myocardial Energetics In Cardiac Hypertrophy. Clinical and Experimental Pharmacology and Physiology, 2002, 29, 351-359.	0.9	46
80	Nanoscale Technologies for Prevention and Treatment of Heart Failure: Challenges and Opportunities. Chemical Reviews, 2019, 119, 11352-11390.	23.0	46
81	Bach1 regulates self-renewal and impedes mesendodermal differentiation of human embryonic stem cells. Science Advances, 2019, 5, eaau7887.	4.7	46
82	Stem Cellâ€"Derived Cardiomyocytes and Beta-Adrenergic Receptor Blockade in Duchenne Muscular DystrophyÂCardiomyopathy. Journal of the American College of Cardiology, 2020, 75, 1159-1174.	1.2	44
83	Cardiac troponin I and T alterations in hearts with severe left ventricular remodeling. Clinical Chemistry, 1997, 43, 990-995.	1.5	43
84	Getting to the Heart of Myocardial Stem Cells and Cell Therapy. Circulation, 2011, 123, 1771-1779.	1.6	43
85	Basic and Translational Research in Cardiac Repair and Regeneration. Journal of the American College of Cardiology, 2021, 78, 2092-2105.	1.2	42
86	Engineered Tissue Patch for Cardiac Cell Therapy. Current Treatment Options in Cardiovascular Medicine, 2015, 17, 399.	0.4	40
87	CHIR99021 and fibroblast growth factor 1 enhance the regenerative potency of human cardiac muscle patch after myocardial infarction in mice. Journal of Molecular and Cellular Cardiology, 2020, 141, 1-10.	0.9	40
88	Determination of deoxymyoglobin changes during graded myocardial ischemia: Anin Vivo1H NMR spectroscopy study. Magnetic Resonance in Medicine, 1997, 38, 193-197.	1.9	39
89	Long-term functional improvement and gene expression changes after bone marrow-derived multipotent progenitor cell transplantation in myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1348-H1356.	1.5	37
90	Safety and efficacy of intracoronary hypoxia-preconditioned bone marrow mononuclear cell administration for acute myocardial infarction patients: The CHINA-AMI randomized controlled trial. International Journal of Cardiology, 2015, 184, 446-451.	0.8	37

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91	Myocardial bioenergetic abnormalities in a canine model of left ventricular dysfunction. Journal of the American College of Cardiology, 1994, 23, 786-793.	1.2	34
92	Myocardial creatine kinase kinetics in hearts with postinfarction left ventricular remodeling. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H892-H900.	1.5	33
93	Myocardial creatine kinase kinetics and isoform expression in hearts with severe LV hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H376-H386.	1.5	33
94	Novel Mechanisms of Exosome-Mediated Phagocytosis of Dead Cells in Injured Heart. Circulation Research, 2021, 129, 1006-1020.	2.0	32
95	Engineering human ventricular heart muscles based on a highly efficient system for purification of human pluripotent stem cell-derived ventricular cardiomyocytes. Stem Cell Research and Therapy, 2017, 8, 202.	2.4	31
96	Y-27632 preconditioning enhances transplantation of human-induced pluripotent stem cell-derived cardiomyocytes in myocardial infarction mice. Cardiovascular Research, 2019, 115, 343-356.	1.8	30
97	Effects of augmented delivery of pyruvate on myocardial high-energy phosphate metabolism at high workstate. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1823-H1832.	1.5	28
98	Thymosin Î²4 increases cardiac cell proliferation, cell engraftment, and the reparative potency of human induced-pluripotent stem cell-derived cardiomyocytes in a porcine model of acute myocardial infarction. Theranostics, 2021, 11, 7879-7895.	4.6	28
99	Acute Effects of Febuxostat, a Nonpurine Selective Inhibitor of Xanthine Oxidase, in Pacing Induced Heart Failure. Journal of Cardiovascular Pharmacology, 2006, 48, 255-263.	0.8	27
100	Heart Failure Management: The Present and the Future. Antioxidants and Redox Signaling, 2009, 11, 1989-2010.	2.5	26
101	Ablation of lncRNA <i>Miat</i> attenuates pathological hypertrophy and heart failure. Theranostics, 2021, 11, 7995-8007.	4.6	26
102	Changes in Cardiomyocyte Cell Cycle and Hypertrophic Growth During Fetal to Adult in Mammals. Journal of the American Heart Association, 2021, 10, e017839.	1.6	26
103	Cardiac Fibroblasts and Myocardial Regeneration. Frontiers in Bioengineering and Biotechnology, 2021, 9, 599928.	2.0	26
104	The Transcription Factor Bach1 Suppresses the Developmental Angiogenesis of Zebrafish. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-10.	1.9	25
105	N-cadherin overexpression enhances the reparative potency of human-induced pluripotent stem cell-derived cardiac myocytes in infarcted mouse hearts. Cardiovascular Research, 2020, 116, 671-685.	1.8	25
106	Myocardial oxygenation and high-energy phosphate levels during graded coronary hypoperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H318-H326.	1.5	24
107	The energetic state within hibernating myocardium is normal during dobutamine despite inhibition of ATP-dependent potassium channel opening with glibenclamide. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2945-H2951.	1.5	24
108	Relationships between regional myocardial wall stress and bioenergetics in hearts with left ventricular hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2313-H2321.	1.5	24

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109	BACH1 recruits NANOG and histone H3 lysine 4 methyltransferase MLL/SET1 complexes to regulate enhancerâ€“promoter activity and maintains pluripotency. Nucleic Acids Research, 2021, 49, 1972-1986.	6.5	24
110	Effects of dobutamine on myocardial blood flow, contractile function, and bioenergetic responses distal to coronary stenosis: Implications with regard to dobutamine stress testing. American Heart Journal, 1995, 129, 330-342.	1.2	23
111	Myocardial creatine kinase expression after left ventricular assist device support. Journal of the American College of Cardiology, 2002, 39, 1773-1779.	1.2	23
112	Myocardial Energetics in Left Ventricular Hypertrophy. Current Cardiology Reviews, 2009, 5, 243-250.	0.6	23
113	Molecular biology of myocardial recovery. Surgical Clinics of North America, 2004, 84, 223-242.	0.5	22
114	Direct <i>in vivo</i> application of induced pluripotent stem cells is feasible and can be safe. Theranostics, 2019, 9, 290-310.	4.6	22
115	Bach1-induced suppression of angiogenesis is dependent on the BTB domain. EBioMedicine, 2020, 51, 102617.	2.7	22
116	Metabolic consequences of coronary stenosis. Transmurally heterogeneous myocardial ischemia studied by spatially localized31P NMR spectroscopy. NMR in Biomedicine, 1989, 2, 317-328.	1.6	21
117	In vitro and in vivo studies of1H NMR visibility to detect deoxyhemoglobin and deoxymyoglobin signals in myocardium. Magnetic Resonance in Medicine, 1999, 42, 1-5.	1.9	21
118	Reduced expression of mitochondrial electron transport chain proteins from hibernating hearts relative to ischemic preconditioned hearts in the second window of protection. Journal of Molecular and Cellular Cardiology, 2013, 60, 90-96.	0.9	21
119	Apical Resection Prolongs the Cell Cycle Activity and Promotes Myocardial Regeneration After Left Ventricular Injury in Neonatal Pig. Circulation, 2020, 142, 913-916.	1.6	21
120	Intra-Myocardial Injection of Both Growth Factors and Heart Derived Sca-1+/CD31â^' Cells Attenuates Post-MI LV Remodeling More Than Does Cell Transplantation Alone: Neither Intervention Enhances Functionally Significant Cardiomyocyte Regeneration. PLoS ONE, 2014, 9, e95247.	1.1	20
121	Pathologic Stimulus Determines Lineage Commitment of Cardiac C-kit ⁺ Cells. Circulation, 2017, 136, 2359-2372.	1.6	20
122	Utilization of Human Induced Pluripotent Stem Cells for Cardiac Repair. Frontiers in Cell and Developmental Biology, 2020, 8, 36.	1.8	20
123	Angiopoietin-1 enhanced myocyte mitosis, engraftment, and the reparability of hiPSC-CMs for treatment of myocardial infarction. Cardiovascular Research, 2021, 117, 1578-1591.	1.8	20
124	Cardiomyocytes from CCND2-overexpressing human induced-pluripotent stem cells repopulate the myocardial scar in mice: A 6-month study. Journal of Molecular and Cellular Cardiology, 2019, 137, 25-33.	0.9	19
125	Scaffold-Free Bioprinter Utilizing Layer-By-Layer Printing of Cellular Spheroids. Micromachines, 2019, 10, 570.	1.4	19
126	Engineering Human Cardiac Muscle Patch Constructs for Prevention of Post-infarction LV Remodeling. Frontiers in Cardiovascular Medicine, 2021, 8, 621781.	1.1	19

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127	Nitric oxide regulation of myocardial O2consumption and HEP metabolism. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H310-H316.	1.5	18
128	Stem Cell Therapy for Ischemic Heart Disease. Antioxidants and Redox Signaling, 2010, 13, 1879-1897.	2.5	18
129	Quantitative Proteomics and Immunohistochemistry Reveal Insights into Cellular and Molecular Processes in the Infarct Border Zone One Month after Myocardial Infarction. Journal of Proteome Research, 2017, 16, 2101-2112.	1.8	18
130	The prostaglandin H2 analog U-46619 improves the differentiation efficiency of human induced pluripotent stem cells into endothelial cells by activating both p38MAPK and ERK1/2 signaling pathways. Stem Cell Research and Therapy, 2018, 9, 313.	2.4	18
131	Inhibition of EZH2 primes the cardiac gene activation via removal of epigenetic repression during human direct cardiac reprogramming. Stem Cell Research, 2021, 53, 102365.	0.3	18
132	Transmural metabolic heterogeneity at high cardiac work states. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H236-H242.	1.5	17
133	Myocardial oxygenation and high-energy phosphate levels during K_{ATP} channel blockade. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H1420-H1427.	1.5	17
134	Novel strategy for measuring creatine kinase reaction rate in the in vivo heart. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1010-H1019.	1.5	17
135	Responses of myocardial high energy phosphates and wall thickening to prolonged regional hypoperfusion induced by subtotal coronary stenosis. Magnetic Resonance in Medicine, 1993, 30, 28-37.	1.9	16
136	The host immune response is essential for the beneficial effect of adult stem cells after myocardial ischemia. Experimental Hematology, 2007, 35, 682-690.	0.2	16
137	Synthetic Phosphopeptides Enable Quantitation of the Content and Function of the Four Phosphorylation States of Phospholamban in Cardiac Muscle. Journal of Biological Chemistry, 2014, 289, 29397-29405.	1.6	16
138	Nox2 and Nox4 regulate self-renewal of murine induced-pluripotent stem cells. IUBMB Life, 2016, 68, 963-970.	1.5	16
139	Nox2 contributes to the arterial endothelial specification of mouse induced pluripotent stem cells by upregulating Notch signaling. Scientific Reports, 2016, 6, 33737.	1.6	16
140	ATP sensitive K+ channels are critical for maintaining myocardial perfusion and high energy phosphates in the failing heart. Journal of Molecular and Cellular Cardiology, 2016, 92, 116-121.	0.9	16
141	Aging Kit Mutant Mice Develop Cardiomyopathy. PLoS ONE, 2012, 7, e33407.	1.1	16
142	Selective blockade of mitochondrial KATPchannels does not impair myocardial oxygen consumption. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H738-H744.	1.5	15
143	Interstitial purine metabolites in hearts with LV remodeling. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H677-H684.	1.5	15
144	Open-chest31P magnetic resonance spectroscopy of mouse heart at 4.7 Tesla. Journal of Magnetic Resonance Imaging, 2006, 24, 1269-1276.	1.9	15

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145	Myocardial protection by nanomaterials formulated with CHIR99021 and FGF1. JCI Insight, 2020, 5, .	2.3	15
146	Myocardial ATP hydrolysis rates in vivo: a porcine model of pressure overload-induced hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H450-H458.	1.5	14
147	Use of Magnetic Resonance Spectroscopy for In Vivo Evaluation of High-Energy Phosphate Metabolism in Normal and Abnormal Myocardium. Journal of Cardiovascular Magnetic Resonance, 2000, 2, 23-32.	1.6	13
148	A 3D Bioprinted In Vitro Model of Pulmonary Artery Atresia to Evaluate Endothelial Cell Response to Microenvironment. Advanced Healthcare Materials, 2021, 10, e2100968.	3.9	13
149	Increased Angiogenesis and Improved Left Ventricular Function after Transplantation of Myoblasts Lacking the MyoD Gene into Infarcted Myocardium. PLoS ONE, 2012, 7, e41736.	1.1	13
150	The Structural Basis of Functional Improvement in Response to Human Umbilical Cord Blood Stem Cell Transplantation in Hearts with Postinfarct LV Remodeling. Cell Transplantation, 2015, 24, 971-983.	1.2	12
151	Quantitative proteomics reveals differential regulation of protein expression in recipient myocardium after trilineage cardiovascular cell transplantation. Proteomics, 2015, 15, 2560-2567.	1.3	12
152	Effect of densely ionizing radiation on cardiomyocyte differentiation from human-induced pluripotent stem cells. Physiological Reports, 2017, 5, e13308.	0.7	12
153	Layer-By-Layer Fabrication of Large and Thick Human Cardiac Muscle Patch Constructs With Superior Electrophysiological Properties. Frontiers in Cell and Developmental Biology, 2021, 9, 670504.	1.8	12
154	miR-199a Overexpression Enhances the Potency of Human Induced-Pluripotent Stem-Cellâ€"Derived Cardiomyocytes for Myocardial Repair. Frontiers in Pharmacology, 2021, 12, 673621.	1.6	12
155	Sam68 promotes hepatic gluconeogenesis via CRTC2. Nature Communications, 2021, 12, 3340.	5.8	12
156	Transmural distribution of 2-deoxyglucose uptake in normal and post-ischemic canine myocardium. NMR in Biomedicine, 1995, 8, 9-18.	1.6	11
157	The Molecular Energetics of the Failing Heart from Animal Modelsâ€"Large Animal Models. Heart Failure Reviews, 1999, 4, 255-267.	1.7	11
158	Satellite cell heterogeneity revealed by G-Tool, an open algorithm to quantify myogenesis through colony-forming assays. Skeletal Muscle, 2012, 2, 13.	1.9	11
159	Early Detection of Myocardial Bioenergetic Deficits: A 9.4 Tesla Complete Non Invasive 31P MR Spectroscopy Study in Mice with Muscular Dystrophy. PLoS ONE, 2015, 10, e0135000.	1.1	11
160	Functionally Competent DNA Damage-Free Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes for Myocardial Repair. Circulation, 2019, 140, 520-522.	1.6	11
161	Sam68 impedes the recovery of arterial injury by augmenting inflammatory response. Journal of Molecular and Cellular Cardiology, 2019, 137, 82-92.	0.9	11
162	Analysis of mesenchymal stem cell proteomes in situ in the ischemic heart. Theranostics, 2020, 10, 11324-11338.	4.6	11

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163	Nano-Medicine in the Cardiovascular System. Frontiers in Pharmacology, 2021, 12, 640182.	1.6	11
164	A Novel Human Long Noncoding RNA <i>SCDAL</i> Promotes Angiogenesis through SNF5â€Mediated GDF6 Expression. Advanced Science, 2021, 8, e2004629.	5.6	11
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