

Jianyi Zhang,, Faha

List of Publications by Citations

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217
papers

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230
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ext. citations

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avg, IF

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#	Paper	IF	Citations
217	Cardiac repair in a porcine model of acute myocardial infarction with human induced pluripotent stem cell-derived cardiovascular cells. <i>Cell Stem Cell</i> , 2014 , 15, 750-61	18	329
216	Contrast-enhanced first pass myocardial perfusion imaging: correlation between myocardial blood flow in dogs at rest and during hyperemia. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 485-97	4.4	306
215	Bioenergetic and functional consequences of bone marrow-derived multipotent progenitor cell transplantation in hearts with postinfarction left ventricular remodeling. <i>Circulation</i> , 2007 , 115, 1866-75	16.7	218
214	The Mitochondrial Calcium Uniporter Selectively Matches Metabolic Output to Acute Contractile Stress in the Heart. <i>Cell Reports</i> , 2015 , 12, 15-22	10.6	214
213	The role of the sca-1+/CD31- cardiac progenitor cell population in postinfarction left ventricular remodeling. <i>Stem Cells</i> , 2006 , 24, 1779-88	5.8	209
212	Large Cardiac Muscle Patches Engineered From Human Induced-Pluripotent Stem Cell-Derived Cardiac Cells Improve Recovery From Myocardial Infarction in Swine. <i>Circulation</i> , 2018 , 137, 1712-1730	16.7	207
211	Myocardial Tissue Engineering With Cells Derived From Human-Induced Pluripotent Stem Cells and a Native-Like, High-Resolution, 3-Dimensionally Printed Scaffold. <i>Circulation Research</i> , 2017 , 120, 1318-1325	15.7	187
210	Controlled release of stromal cell-derived factor-1 alpha in situ increases c-kit+ cell homing to the infarcted heart. <i>Tissue Engineering</i> , 2007 , 13, 2063-71		169
209	ATP-sensitive K+ channels, adenosine, and nitric oxide-mediated mechanisms account for coronary vasodilation during exercise. <i>Circulation Research</i> , 1998 , 82, 346-59	15.7	162
208	A PEGylated fibrin patch for mesenchymal stem cell delivery. <i>Tissue Engineering</i> , 2006 , 12, 9-19		154
207	Transplanted Mesenchymal Stem Cells Reduce Autophagic Flux in Infarcted Hearts via the Exosomal Transfer of miR-125b. <i>Circulation Research</i> , 2018 , 123, 564-578	15.7	130
206	Acquisition of a quantitative, stoichiometrically conserved ratiometric marker of maturation status in stem cell-derived cardiac myocytes. <i>Stem Cell Reports</i> , 2014 , 3, 594-605	8	130
205	Regional myocardial blood volume and flow: first-pass MR imaging with polylysine-Gd-DTPA. <i>Journal of Magnetic Resonance Imaging</i> , 1995 , 5, 227-37	5.6	119
204	Autologous stem cell transplantation for myocardial repair. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H501-11	5.2	118
203	Early Regenerative Capacity in the Porcine Heart. <i>Circulation</i> , 2018 , 138, 2798-2808	16.7	117
202	A Large-Scale Investigation of Hypoxia-Preconditioned Allogeneic Mesenchymal Stem Cells for Myocardial Repair in Nonhuman Primates: Paracrine Activity Without Remuscularization. <i>Circulation Research</i> , 2016 , 118, 970-83	15.7	116
201	Bioenergetic abnormalities associated with severe left ventricular hypertrophy. <i>Journal of Clinical Investigation</i> , 1993 , 92, 993-1003	15.9	112

200	Enhancing efficacy of stem cell transplantation to the heart with a PEGylated fibrin biomatrix. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1025-36	3.9	111
199	Regenerative Potential of Neonatal Porcine Hearts. <i>Circulation</i> , 2018 , 138, 2809-2816	16.7	110
198	Distilling complexity to advance cardiac tissue engineering. <i>Science Translational Medicine</i> , 2016 , 8, 342ps13	15.7	108
197	Patching the heart: cardiac repair from within and outside. <i>Circulation Research</i> , 2013 , 113, 922-32	15.7	107
196	A fibrin patch-based enhanced delivery of human embryonic stem cell-derived vascular cell transplantation in a porcine model of postinfarction left ventricular remodeling. <i>Stem Cells</i> , 2011 , 29, 367-75	5.8	102
195	Circulating myocardial microRNAs from infarcted hearts are carried in exosomes and mobilise bone marrow progenitor cells. <i>Nature Communications</i> , 2019 , 10, 959	17.4	101
194	High-energy phosphate metabolism and creatine kinase in failing hearts: a new porcine model. <i>Circulation</i> , 2001 , 103, 1570-6	16.7	95
193	Functional and bioenergetic consequences of postinfarction left ventricular remodeling in a new porcine model. MRI and 31 P-MRS study. <i>Circulation</i> , 1996 , 94, 1089-100	16.7	94
192	Can We Engineer a Human Cardiac Patch for Therapy?. <i>Circulation Research</i> , 2018 , 123, 244-265	15.7	90
191	Functional consequences of human induced pluripotent stem cell therapy: myocardial ATP turnover rate in the in vivo swine heart with postinfarction remodeling. <i>Circulation</i> , 2013 , 127, 997-1008	16.7	87
190	Phosphate metabolite concentrations and ATP hydrolysis potential in normal and ischaemic hearts. <i>Journal of Physiology</i> , 2008 , 586, 4193-208	3.9	86
189	Lack of Remuscularization Following Transplantation of Human Embryonic Stem Cell-Derived Cardiovascular Progenitor Cells in Infarcted Nonhuman Primates. <i>Circulation Research</i> , 2018 , 122, 958-969	15.7	84
188	Multipotent adult progenitor cells from swine bone marrow. <i>Stem Cells</i> , 2006 , 24, 2355-66	5.8	82
187	Functional engineered human cardiac patches prepared from nature® platform improve heart function after acute myocardial infarction. <i>Biomaterials</i> , 2016 , 105, 52-65	15.6	79
186	Bach1 Represses Wnt/ECatenin Signaling and Angiogenesis. <i>Circulation Research</i> , 2015 , 117, 364-375	15.7	78
185	CCND2 Overexpression Enhances the Regenerative Potency of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes: Remuscularization of Injured Ventricle. <i>Circulation Research</i> , 2018 , 122, 88-96	15.7	78
184	In Situ Expansion, Differentiation, and Electromechanical Coupling of Human Cardiac Muscle in a 3D Bioprinted, Chambered Organoid. <i>Circulation Research</i> , 2020 , 127, 207-224	15.7	74
183	Bioenergetic and functional consequences of cellular therapy: activation of endogenous cardiovascular progenitor cells. <i>Circulation Research</i> , 2012 , 111, 455-68	15.7	74

182	Oxidative capacity in failing hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H541-8	5.2	73
181	Functional Effects of a Tissue-Engineered Cardiac Patch From Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in a Rat Infarct Model. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 1324-32	6.9	71
180	Functional consequences of a tissue-engineered myocardial patch for cardiac repair in a rat infarct model. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1325-35	3.9	69
179	VEGF nanoparticles repair the heart after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H278-H284	5.2	68
178	Overcoming the Roadblocks to Cardiac Cell Therapy Using Tissue Engineering. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 766-775	15.1	67
177	Myocardial oxygenation during high work states in hearts with postinfarction remodeling. <i>Circulation</i> , 1999 , 99, 942-8	16.7	67
176	Xenotransplantation of long-term-cultured swine bone marrow-derived mesenchymal stem cells. <i>Stem Cells</i> , 2007 , 25, 612-20	5.8	66
175	Derivation and high engraftment of patient-specific cardiomyocyte sheet using induced pluripotent stem cells generated from adult cardiac fibroblast. <i>Circulation: Heart Failure</i> , 2015 , 8, 156-66	7.6	65
174	Correlation between transmural high energy phosphate levels and myocardial blood flow in the presence of graded coronary stenosis. <i>Circulation Research</i> , 1990 , 67, 660-73	15.7	63
173	From Microscale Devices to 3D Printing: Advances in Fabrication of 3D Cardiovascular Tissues. <i>Circulation Research</i> , 2017 , 120, 150-165	15.7	61
172	Functional and bioenergetic modulations in the infarct border zone following autologous mesenchymal stem cell transplantation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1772-80	5.2	61
171	Multipotent adult progenitor cell transplantation increases vascularity and improves left ventricular function after myocardial infarction. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 51-9	4.4	57
170	Myocardial oxygenation at high workstates in hearts with left ventricular hypertrophy. <i>Cardiovascular Research</i> , 1999 , 42, 616-26	9.9	57
169	Human Leukocyte Antigen Class I and II Knockout Human Induced Pluripotent Stem Cell-Derived Cells: Universal Donor for Cell Therapy. <i>Journal of the American Heart Association</i> , 2018 , 7, e010239	6	57
168	Stem cells for myocardial repair with use of a transarterial catheter. <i>Circulation</i> , 2009 , 120, S238-46	16.7	56
167	Profound bioenergetic abnormalities in peri-infarct myocardial regions. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H648-57	5.2	56
166	Effect of left ventricular hypertrophy secondary to chronic pressure overload on transmural myocardial 2-deoxyglucose uptake. A 31P NMR spectroscopic study. <i>Circulation</i> , 1995 , 92, 1274-83	16.7	55
165	Effective cardiac myocyte differentiation of human induced pluripotent stem cells requires VEGF. <i>PLoS ONE</i> , 2013 , 8, e53764	3.7	53

164	Mitochondrial ATPase and high-energy phosphates in failing hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1319-26	5.2	53
163	Lactate Promotes Synthetic Phenotype in Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2017 , 121, 1251-1262	15.7	52
162	Thymosin β increases the potency of transplanted mesenchymal stem cells for myocardial repair. <i>Circulation</i> , 2013 , 128, S32-41	16.7	51
161	Experimentally observed phenomena on cardiac energetics in heart failure emerge from simulations of cardiac metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7143-8	11.5	51
160	Bioenergetic and functional consequences of stem cell-based VEGF delivery in pressure-overloaded swine hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H1393-405	5.2	49
159	New mass-spectrometry-compatible degradable surfactant for tissue proteomics. <i>Journal of Proteome Research</i> , 2015 , 14, 1587-99	5.6	48
158	Oxygen delivery does not limit cardiac performance during high work states. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H50-7	5.2	47
157	Signaling and expression for mitochondrial membrane proteins during left ventricular remodeling and contractile failure after myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2000 , 36, 282-7	15.1	45
156	Coronary pressure-flow relation in left ventricular hypertrophy. Importance of changes in back pressure versus changes in minimum resistance. <i>Circulation Research</i> , 1993 , 72, 579-87	15.7	45
155	Big bottlenecks in cardiovascular tissue engineering. <i>Communications Biology</i> , 2018 , 1, 199	6.7	45
154	ATP production rate via creatine kinase or ATP synthase in vivo: a novel superfast magnetization saturation transfer method. <i>Circulation Research</i> , 2011 , 108, 653-63	15.7	44
153	Bioenergetic consequences of left ventricular remodeling. <i>Circulation</i> , 1995 , 92, 1011-9	16.7	43
152	Exosomes secreted by hiPSC-derived cardiac cells improve recovery from myocardial infarction in swine. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	43
151	The influence of a spatiotemporal 3D environment on endothelial cell differentiation of human induced pluripotent stem cells. <i>Biomaterials</i> , 2014 , 35, 3786-93	15.6	41
150	Spheroids of cardiomyocytes derived from human-induced pluripotent stem cells improve recovery from myocardial injury in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H327-H339	5.2	40
149	Cardiac troponin I and T alterations in hearts with severe left ventricular remodeling. <i>Clinical Chemistry</i> , 1997 , 43, 990-995	5.5	40
148	Relationships between myocardial bioenergetic and left ventricular function in hearts with volume-overload hypertrophy. <i>Circulation</i> , 1997 , 96, 334-43	16.7	39
147	Getting to the heart of myocardial stem cells and cell therapy. <i>Circulation</i> , 2011 , 123, 1771-9	16.7	38

146	Determination of deoxymyoglobin changes during graded myocardial ischemia: an in vivo 1H NMR spectroscopy study. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 193-7	4.4	38
145	Differentiation of Human Induced-Pluripotent Stem Cells into Smooth-Muscle Cells: Two Novel Protocols. <i>PLoS ONE</i> , 2016 , 11, e0147155	3.7	38
144	Bach1 Induces Endothelial Cell Apoptosis and Cell-Cycle Arrest through ROS Generation. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 6234043	6.7	37
143	Engineered Tissue Patch for Cardiac Cell Therapy. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2015 , 17, 399	2.1	35
142	Maturation of three-dimensional, hiPSC-derived cardiomyocyte spheroids utilizing cyclic, uniaxial stretch and electrical stimulation. <i>PLoS ONE</i> , 2019 , 14, e0219442	3.7	34
141	Long-term functional improvement and gene expression changes after bone marrow-derived multipotent progenitor cell transplantation in myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1348-56	5.2	34
140	Myocardial energetics in cardiac hypertrophy. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002 , 29, 351-9	3	34
139	HDAC inhibition induces autophagy and mitochondrial biogenesis to maintain mitochondrial homeostasis during cardiac ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 130, 36-48	5.8	33
138	Safety and efficacy of intracoronary hypoxia-preconditioned bone marrow mononuclear cell administration for acute myocardial infarction patients: The CHINA-AMI randomized controlled trial. <i>International Journal of Cardiology</i> , 2015 , 184, 446-451	3.2	29
137	Myocardial creatine kinase kinetics and isoform expression in hearts with severe LV hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H376-86	5.2	28
136	Myocardial creatine kinase kinetics in hearts with postinfarction left ventricular remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H892-900	5.2	28
135	Myocardial bioenergetic abnormalities in a canine model of left ventricular dysfunction. <i>Journal of the American College of Cardiology</i> , 1994 , 23, 786-93	15.1	28
134	Stem Cell-Derived Cardiomyocytes and Beta-Adrenergic Receptor Blockade in Duchenne Muscular Dystrophy/ Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 1159-1174	15.1	27
133	Nanoscale Technologies for Prevention and Treatment of Heart Failure: Challenges and Opportunities. <i>Chemical Reviews</i> , 2019 , 119, 11352-11390	68.1	24
132	Effects of augmented delivery of pyruvate on myocardial high-energy phosphate metabolism at high workstate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1823-32	5.2	24
131	Myocardial oxygenation and high-energy phosphate levels during graded coronary hypoperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H318-26	5.2	24
130	Targeting exosome-associated human antigen R attenuates fibrosis and inflammation in diabetic heart. <i>FASEB Journal</i> , 2020 , 34, 2238-2251	0.9	23
129	Bach1 regulates self-renewal and impedes mesendodermal differentiation of human embryonic stem cells. <i>Science Advances</i> , 2019 , 5, eaau7887	14.3	22

128	Relationships between regional myocardial wall stress and bioenergetics in hearts with left ventricular hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2313-21	5.2	22
127	Myocardial creatine kinase expression after left ventricular assist device support. <i>Journal of the American College of Cardiology</i> , 2002 , 39, 1773-9	15.1	22
126	Effects of dobutamine on myocardial blood flow, contractile function, and bioenergetic responses distal to coronary stenosis: implications with regard to dobutamine stress testing. <i>American Heart Journal</i> , 1995 , 129, 330-42	4.9	22
125	CHIR99021 and fibroblast growth factor 1 enhance the regenerative potency of human cardiac muscle patch after myocardial infarction in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2020 , 141, 1-10	5.8	21
124	The energetic state within hibernating myocardium is normal during dobutamine despite inhibition of ATP-dependent potassium channel opening with glibenclamide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H2945-51	5.2	21
123	Small extracellular vesicles containing miR-486-5p promote angiogenesis after myocardial infarction in mice and nonhuman primates. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	21
122	Engineering human ventricular heart muscles based on a highly efficient system for purification of human pluripotent stem cell-derived ventricular cardiomyocytes. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 202	8.3	20
121	Myocardial energetics in left ventricular hypertrophy. <i>Current Cardiology Reviews</i> , 2009 , 5, 243-50	2.4	20
120	Pathologic Stimulus Determines Lineage Commitment of Cardiac C-kit Cells. <i>Circulation</i> , 2017 , 136, 2359-2372	13.7	19
119	Heart failure management: the present and the future. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1989-2010	2.1	19
118	Acute effects of febuxostat, a nonpurine selective inhibitor of xanthine oxidase, in pacing induced heart failure. <i>Journal of Cardiovascular Pharmacology</i> , 2006 , 48, 255-63	3.1	19
117	In vitro and in vivo studies of 1H NMR visibility to detect deoxyhemoglobin and deoxymyoglobin signals in myocardium. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 1-5	4.4	19
116	Deciphering Role of Wnt Signalling in Cardiac Mesoderm and Cardiomyocyte Differentiation from Human iPSCs: Four-dimensional control of Wnt pathway for hiPSC-CMs differentiation. <i>Scientific Reports</i> , 2019 , 9, 19389	4.9	19
115	Reduced expression of mitochondrial electron transport chain proteins from hibernating hearts relative to ischemic preconditioned hearts in the second window of protection. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 60, 90-6	5.8	18
114	The Transcription Factor Bach1 Suppresses the Developmental Angiogenesis of Zebrafish. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 2143875	6.7	18
113	Stem cell therapy for ischemic heart disease. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 1879-97	8.4	18
112	Cyclin D2 Overexpression Enhances the Efficacy of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Myocardial Repair in a Swine Model of Myocardial Infarction. <i>Circulation</i> , 2021 , 144, 210-228	16.7	18
111	Y-27632 preconditioning enhances transplantation of human-induced pluripotent stem cell-derived cardiomyocytes in myocardial infarction mice. <i>Cardiovascular Research</i> , 2019 , 115, 343-356	9.9	17

110	Intra-myocardial injection of both growth factors and heart derived Sca-1+/CD31- cells attenuates post-MI LV remodeling more than does cell transplantation alone: neither intervention enhances functionally significant cardiomyocyte regeneration. <i>PLoS ONE</i> , 2014 , 9, e95247	3.7	17
109	Molecular biology of myocardial recovery. <i>Surgical Clinics of North America</i> , 2004 , 84, 223-42	4	17
108	Metabolic consequences of coronary stenosis. Transmurally heterogeneous myocardial ischemia studied by spatially localized ³¹ P NMR spectroscopy. <i>NMR in Biomedicine</i> , 1989 , 2, 317-28	4.4	17
107	Direct application of induced pluripotent stem cells is feasible and can be safe. <i>Theranostics</i> , 2019 , 9, 290-310	12.1	17
106	Utilization of Human Induced Pluripotent Stem Cells for Cardiac Repair. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 36	5.7	16
105	Novel strategy for measuring creatine kinase reaction rate in the in vivo heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H1010-9	5.2	16
104	Responses of myocardial high energy phosphates and wall thickening to prolonged regional hypoperfusion induced by subtotal coronary stenosis. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 28-37	4.4	16
103	Myocardial oxygenation and high-energy phosphate levels during KATP channel blockade. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1420-7	5.2	15
102	Selective blockade of mitochondrial K(ATP) channels does not impair myocardial oxygen consumption. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H738-44	5.2	15
101	The host immune response is essential for the beneficial effect of adult stem cells after myocardial ischemia. <i>Experimental Hematology</i> , 2007 , 35, 682-90	3.1	14
100	Aging Kit mutant mice develop cardiomyopathy. <i>PLoS ONE</i> , 2012 , 7, e33407	3.7	14
99	N-cadherin overexpression enhances the reparative potency of human-induced pluripotent stem cell-derived cardiac myocytes in infarcted mouse hearts. <i>Cardiovascular Research</i> , 2020 , 116, 671-685	9.9	14
98	ATP sensitive K(+) channels are critical for maintaining myocardial perfusion and high energy phosphates in the failing heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 92, 116-21	5.8	13
97	Cardiomyocytes from CCND2-overexpressing human induced-pluripotent stem cells repopulate the myocardial scar in mice: A 6-month study. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 137, 25-33	5.8	13
96	Open-chest ³¹ P magnetic resonance spectroscopy of mouse heart at 4.7 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 1269-76	5.6	13
95	Nitric oxide regulation of myocardial O ₂ consumption and HEP metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H310-6	5.2	13
94	Use of magnetic resonance spectroscopy for in vivo evaluation of high-energy phosphate metabolism in normal and abnormal myocardium. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2000 , 2, 23-32	6.9	13
93	The prostaglandin H ₂ 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. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 313	8.3	13

92	Quantitative Proteomics and Immunohistochemistry Reveal Insights into Cellular and Molecular Processes in the Infarct Border Zone One Month after Myocardial Infarction. <i>Journal of Proteome Research</i> , 2017 , 16, 2101-2112	5.6	12
91	Transmural metabolic heterogeneity at high cardiac work states. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H236-42	5.2	12
90	Thymosin β 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. <i>Theranostics</i> , 2021 , 11, 7879-7895	12.1	12
89	Changes in Cardiomyocyte Cell Cycle and Hypertrophic Growth During Fetal to Adult in Mammals. <i>Journal of the American Heart Association</i> , 2021 , 10, e017839	6	12
88	Nox2 contributes to the arterial endothelial specification of mouse induced pluripotent stem cells by upregulating Notch signaling. <i>Scientific Reports</i> , 2016 , 6, 33737	4.9	11
87	Myocardial ATP hydrolysis rates in vivo: a porcine model of pressure overload-induced hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H450-8	5.2	11
86	Interstitial purine metabolites in hearts with LV remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H677-84	5.2	11
85	Transmural distribution of 2-deoxyglucose uptake in normal and post-ischemic canine myocardium. <i>NMR in Biomedicine</i> , 1995 , 8, 9-18	4.4	11
84	Angiopietin-1 enhanced myocyte mitosis, engraftment, and the reparability of hiPSC-CMs for treatment of myocardial infarction. <i>Cardiovascular Research</i> , 2021 , 117, 1578-1591	9.9	11
83	Scaffold-Free Bioprinter Utilizing Layer-By-Layer Printing of Cellular Spheroids. <i>Micromachines</i> , 2019 , 10,	3.3	10
82	The Structural Basis of Functional Improvement in Response to Human Umbilical Cord Blood Stem Cell Transplantation in Hearts With Postinfarct LV Remodeling. <i>Cell Transplantation</i> , 2015 , 24, 971-83	4	10
81	Quantitative proteomics reveals differential regulation of protein expression in recipient myocardium after trilineage cardiovascular cell transplantation. <i>Proteomics</i> , 2015 , 15, 2560-7	4.8	10
80	Myocardial protection by nanomaterials formulated with CHIR99021 and FGF1. <i>JCI Insight</i> , 2020 , 5,	9.9	10
79	Effect of densely ionizing radiation on cardiomyocyte differentiation from human-induced pluripotent stem cells. <i>Physiological Reports</i> , 2017 , 5, e13308	2.6	9
78	The Molecular Energetics of the Failing Heart from Animal Models Large Animal Models. <i>Heart Failure Reviews</i> , 1999 , 4, 255-267	5	9
77	An efficient MR phosphorous spectroscopic localization technique for studying ischemic heart. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 892-8	5.6	9
76	Increased angiogenesis and improved left ventricular function after transplantation of myoblasts lacking the MyoD gene into infarcted myocardium. <i>PLoS ONE</i> , 2012 , 7, e41736	3.7	9
75	BACH1 recruits NANOG and histone H3 lysine 4 methyltransferase MLL/SET1 complexes to regulate enhancer-promoter activity and maintains pluripotency. <i>Nucleic Acids Research</i> , 2021 , 49, 1972-1986	20.1	9

74	Nox2 and Nox4 regulate self-renewal of murine induced-pluripotent stem cells. <i>IUBMB Life</i> , 2016 , 68, 963-970	4.7	8
73	Synthetic phosphopeptides enable quantitation of the content and function of the four phosphorylation states of phospholamban in cardiac muscle. <i>Journal of Biological Chemistry</i> , 2014 , 289, 29397-405	5.4	8
72	Satellite cell heterogeneity revealed by G-Tool, an open algorithm to quantify myogenesis through colony-forming assays. <i>Skeletal Muscle</i> , 2012 , 2, 13	5.1	8
71	Novel Mechanisms of Exosome-Mediated Phagocytosis of Dead Cells in Injured Heart. <i>Circulation Research</i> , 2021 , 129, 1006-1020	15.7	8
70	Bach1-induced suppression of angiogenesis is dependent on the BTB domain. <i>EBioMedicine</i> , 2020 , 51, 102617	8.8	8
69	Transactivation domain of p53 regulates DNA repair and integrity in human iPS cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H512-H521	5.2	7
68	Pluripotent Stem Cell Derived Cardiac Cells for Myocardial Repair. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	7
67	Inhibition of EZH2 primes the cardiac gene activation via removal of epigenetic repression during human direct cardiac reprogramming. <i>Stem Cell Research</i> , 2021 , 53, 102365	1.6	7
66	2D Pulses using spatially dependent frequency sweeping. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1364-1374	4.1	7
65	Cardiac Fibroblasts and Myocardial Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 599928	5.8	7
64	Functionally Competent DNA Damage-Free Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Myocardial Repair. <i>Circulation</i> , 2019 , 140, 520-522	16.7	6
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