Hao Zhang

List of Publications by Year
in descending order

99 papers	2,767 citations	186265 28 h-index	233421 45 g-index
100 all docs	100 docs citations	100 times ranked	4220 citing authors

#	Article	IF	Citations
1	Global, regional, and national time trends in mortality for congenital heart disease, 1990â€"2019: An age-period-cohort analysis for the Global Burden of Disease 2019 study. EClinicalMedicine, 2022, 43, 101249.	7.1	62
2	Development of the ICF-CY Set for Cardiac Rehabilitation After Pediatric Congenital Heart Surgery. Frontiers in Pediatrics, 2022, 10, 790431.	1.9	4
3	Molecular Changes in Prepubertal Left Ventricular Development Under Experimental Volume Overload. Frontiers in Cardiovascular Medicine, 2022, 9, 850248.	2.4	4
4	Impact of early Coronavirus Disease 2019 pandemic on pediatric cardiac surgery in China. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 1605-1614.e4.	0.8	12
5	Adaptive Cardiac Metabolism Under Chronic Hypoxia: Mechanism and Clinical Implications. Frontiers in Cell and Developmental Biology, 2021, 9, 625524.	3.7	20
6	An experimental study on a piezoelectric vibration energy harvester for self-powered cardiac pacemakers. Annals of Translational Medicine, 2021, 9, 880-880.	1.7	9
7	In vitro and in vivo studies on the biocompatibility of a self-powered pacemaker with a flexible buckling piezoelectric vibration energy harvester for rats. Annals of Translational Medicine, 2021, 9, 800-800.	1.7	0
8	The Current Landscape of Congenital Heart Surgery in Northern China: A Geographic and Population-Based Analysis. Frontiers in Pediatrics, 2021, 9, 555141.	1.9	6
9	Suppression of Myocardial Hypoxia-Inducible Factor-1Î± Compromises Metabolic Adaptation and Impairs Cardiac Function in Patients With Cyanotic Congenital Heart Disease During Puberty. Circulation, 2021, 143, 2254-2272.	1.6	30
10	Postnatal Right Ventricular Developmental Track Changed by Volume Overload. Journal of the American Heart Association, 2021, 10, e020854.	3.7	8
11	Volume Overload Initiates an Immune Response in the Right Ventricle at the Neonatal Stage. Frontiers in Cardiovascular Medicine, 2021, 8, 772336.	2.4	7
12	Gelatin/Polycaprolactone Electrospun Nanofibrous Membranes: The Effect of Composition and Physicochemical Properties on Postoperative Cardiac Adhesion. Frontiers in Bioengineering and Biotechnology, 2021, 9, 792893.	4.1	5
13	Surgical Outcomes of Anatomical Repair for Congenitally Corrected Transposed Great Arteries. Heart Lung and Circulation, 2020, 29, 772-779.	0.4	2
14	Addressing the rising burden of congenital heart disease in China. The Lancet Child and Adolescent Health, 2020, 4, e7.	5.6	13
15	Neonatal surgical outcomes after prenatal diagnosis of complex congenital heart disease: experiences of a perinatal integrated diagnosis and treatment program. World Journal of Pediatrics, 2020, 16, 494-501.	1.8	5
16	Modeling the trend of coronavirus disease 2019 and restoration of operational capability of metropolitan medical service in China: a machine learning and mathematical model-based analysis. Global Health Research and Policy, 2020, 5, 20.	3.6	31
17	Notch1 signaling mediated dysfunction of bone marrow mesenchymal stem cells derived from cyanotic congenital heart disease. Biochemical and Biophysical Research Communications, 2020, 527, 847-853.	2.1	3
18	Engineering cartilage tissue based on cartilage-derived extracellular matrix cECM/PCL hybrid nanofibrous scaffold. Materials and Design, 2020, 193, 108773.	7.0	50

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19	Pressure Overload Greatly Promotes Neonatal Right Ventricular Cardiomyocyte Proliferation: A New Model for the Study of Heart Regeneration. Journal of the American Heart Association, 2020, 9, e015574.	3.7	21
20	Modified Single Repair Technique for Complete Atrioventricular Septal Defect: A Propensity Score Matching Analysis. Pediatric Cardiology, 2020, 41, 615-623.	1.3	3
21	Coldâ€inducible RNA binding protein agonist enhances the cardioprotective effect of UW solution during extended heart preservation. Artificial Organs, 2020, 44, E406-E418.	1.9	4
22	Effectiveness of Bidirectional Glenn Shunt Placement for Palliation in Complex Congenitally Corrected Transposed Great Arteries. Texas Heart Institute Journal, 2020, 47, 15-22.	0.3	3
23	Mitochondrial Aldehyde Dehydrogenase in Myocardial Ischemic and Ischemia-Reperfusion Injury. Advances in Experimental Medicine and Biology, 2019, 1193, 107-120.	1.6	15
24	Chronic hypoxiaâ€"induced <i>Cirbp</i> hypermethylation attenuates hypothermic cardioprotection via down-regulation of ubiquinone biosynthesis. Science Translational Medicine, 2019, 11, .	12.4	25
25	Transthoracic Pulmonary Artery Denervation for Pulmonary Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 704-718.	2.4	25
26	Impact of Family Socioeconomic Status on Healthâ€Related Quality of Life in Children With Critical Congenital Heart Disease. Journal of the American Heart Association, 2019, 8, e010616.	3.7	39
27	Whether Pulmonary Valve Replacement in Asymptomatic Patients With Moderate or Severe Regurgitation After Tetralogy of Fallot Repair Is Appropriate: A Caseâ€Control Study. Journal of the American Heart Association, 2019, 8, e010689.	3.7	18
28	Anatomical Repair Conversion After Bidirectional Cavopulmonary Shunt for Complex Cardiac Anomalies: Palliation is Not a One-Way Path. Pediatric Cardiology, 2018, 39, 604-609.	1.3	7
29	Systemic redistribution of the intramyocardially injected mesenchymal stem cells by repeated remote ischaemic postâ€conditioning. Journal of Cellular and Molecular Medicine, 2018, 22, 417-428.	3.6	19
30	Global Unmet Needs in Cardiac Surgery. , 2018, 13, 293-303.		131
31	Hypoxia induces senescence of bone marrow mesenchymal stem cells via altered gut microbiota. Nature Communications, 2018, 9, 2020.	12.8	82
32	Effect of family socioeconomic status on the prognosis of complex congenital heart disease in children: an observational cohort study from China. The Lancet Child and Adolescent Health, 2018, 2, 430-439.	5.6	32
33	Surgical outcome after complete repair of tetralogy of Fallot with absent pulmonary valve: comparison between bovine jugular vein-valved conduit and monocusp-valve patch. World Journal of Pediatrics, 2018, 14, 510-519.	1.8	4
34	The hemi-Mustard, bidirectional Glenn and Rastelli procedures for anatomical repair of congenitally corrected transposition of the great arteries/left ventricular outflow tract obstruction with positional heart anomaliesâ€. European Journal of Cardio-thoracic Surgery, 2017, 51, 1058-1062.	1.4	10
35	Danshenâ€Enhanced Cardioprotective Effect of Cardioplegia on Ischemia Reperfusion Injury in a Humanâ€Induced Pluripotent Stem Cellâ€Derived Cardiomyocytes Model. Artificial Organs, 2017, 41, 452-460.	1.9	22
36	Lipocalin-2 Promotes Endoplasmic Reticulum Stress and Proliferation by Augmenting Intracellular Iron in Human Pulmonary Arterial Smooth Muscle Cells. International Journal of Biological Sciences, 2017, 13, 135-144.	6.4	27

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37	Remote Ischemic Postconditioning Ameliorates the Mesenchymal Stem Cells Engraftment in Reperfused Myocardium. PLoS ONE, 2016, 11, e0146074.	2.5	14
38	Outcomes of Surgical Repair for Persistent Truncus Arteriosus from Neonates to Adults: A Single Center's Experience. PLoS ONE, 2016, 11, e0146800.	2.5	26
39	A Novel Combined-Catheter to Monitor Left and Right Atrial Pressures. Pediatric Critical Care Medicine, 2016, 17, 210-215.	0.5	4
40	Alda-1 Attenuates Lung Ischemia-Reperfusion Injury by Reducing 4-Hydroxy-2-Nonenal in Alveolar Epithelial Cells. Critical Care Medicine, 2016, 44, e544-e552.	0.9	41
41	Multistage pulmonary artery rehabilitation in patients with pulmonary atresia, ventricular septal defect and hypoplastic pulmonary artery. European Journal of Cardio-thoracic Surgery, 2016, 50, 160-166.	1.4	26
42	Single-Trunk Anomalous Origin of Both Coronary Arteries From Pulmonary Artery: Serendipitous Diagnosis and Successful Surgical Treatment. Annals of Thoracic Surgery, 2016, 102, e49-e50.	1.3	4
43	Low-Level Laser Irradiation Precondition for Cardiac Regenerative Therapy. Photomedicine and Laser Surgery, 2016, 34, 572-579.	2.0	13
44	Single chamber permanent epicardial pacing for children with congenital heart disease after surgical repair. Journal of Cardiothoracic Surgery, 2016, 11, 61.	1.1	8
45	Neoaortic Valve Regurgitation After Arterial Switch: Ten Years Outcomes From A Single Center. Annals of Thoracic Surgery, 2016, 102, 636-642.	1.3	18
46	Uncontrolled Antegrade Pulmonary Blood Flow and Delayed Fontan Completion After the Bidirectional Glenn Procedure: Real-World Outcomes in China. Annals of Thoracic Surgery, 2016, 101, 1530-1538.	1.3	12
47	Cerebral Metabolic Profiling of Hypothermic Circulatory Arrest with and Without Antegrade Selective Cerebral Perfusion. Chinese Medical Journal, 2016, 129, 702-708.	2.3	3
48	Role of augmented transferrin during the retraining for undeveloped left ventricle. Journal of Cellular and Molecular Medicine, 2015, 19, 2423-2431.	3.6	3
49	Pulmonary MicroRNA Expression Profiling in an Immature Piglet Model of Cardiopulmonary Bypass-Induced Acute Lung Injury. Artificial Organs, 2015, 39, 327-335.	1.9	22
50	Human lung microRNA profiling in pulmonary arterial hypertension secondary to congenital heart defect. Pediatric Pulmonology, 2015, 50, 1214-1223.	2.0	10
51	Outcomes of coronary transfer for anomalous origin of the left coronary artery from the pulmonary arteryâ€. European Journal of Cardio-thoracic Surgery, 2015, 47, 659-664.	1.4	5
52	Outcomes of the rehabilitative procedure for patients with pulmonary atresia, ventricular septal defect and hypoplastic pulmonary arteries beyond the infant period. European Journal of Cardio-thoracic Surgery, 2014, 46, 297-303.	1.4	26
53	Palliative pulmonary artery banding versus anatomic correction for congenitally corrected transposition of the great arteries with regressed morphologic left ventricle: Long-term results from a single center. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1566-1571.	0.8	21
54	Arterial Switch for Transposed Great Vessels WithÂIntact Ventricular Septum Beyond One Month of Age. Annals of Thoracic Surgery, 2014, 97, 189-195.	1.3	29

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55	Polymorphisms of VEGF, TGFÎ²1, TGFÎ²R2 and conotruncal heart defects in a Chinese population. Molecular Biology Reports, 2014, 41, 1763-1770.	2.3	14
56	Circulating miRNAs reflect early myocardial injury and recovery after heart transplantation. Journal of Cardiothoracic Surgery, 2013, 8, 165.	1.1	41
57	Remote ischemic postconditioning enhances cell retention in the myocardium after intravenous administration of bone marrow mesenchymal stromal cells. Journal of Molecular and Cellular Cardiology, 2013, 56, 1-7.	1.9	36
58	Mitochondrial aldehyde dehydrogenase 2 activation and cardioprotection. Journal of Molecular and Cellular Cardiology, 2013, 55, 58-63.	1.9	23
59	Systemic mesenchymal stem cells reduce growth rate of cisplatin-resistant ovarian cancer. International Journal of Clinical and Experimental Pathology, 2013, 6, 2506-14.	0.5	7
60	Methylenetetrahydrofolate reductase C677T and reduced folate carrier 80 G>A polymorphisms are associated with an increased risk of conotruncal heart defects. Clinical Chemistry and Laboratory Medicine, 2012, 50, 1455-61.	2.3	25
61	Effect of mitochondrial aldehyde dehydrogenase-2 genotype on cardioprotection in patients with congenital heart disease. European Heart Journal, 2012, 33, 1606-1614.	2.2	35
62	Aldehyde Dehydrogenase-2 Activation during Cardioplegic Arrest Enhances the Cardioprotection against Myocardial Ischemiaâ€"Reperfusion Injury. Cardiovascular Toxicology, 2012, 12, 350-358.	2.7	24
63	Ca2+-regulatory proteins in cardiomyocytes from the right ventricle in children with congenital heart disease. Journal of Translational Medicine, 2012, 10, 67.	4.4	10
64	MicroRNA-193 Pro-Proliferation Effects for Bone Mesenchymal Stem Cells After Low-Level Laser Irradiation Treatment Through Inhibitor of Growth Family, Member 5. Stem Cells and Development, 2012, 21, 2508-2519.	2.1	68
65	Generation of disease-specific induced pluripotent stem cells from patients with different karyotypes of Down syndrome. Stem Cell Research and Therapy, 2012, 3, 14.	5.5	42
66	Central zone of myocardial infarction: a neglected target area for heart cell therapy. Journal of Cellular and Molecular Medicine, 2012, 16, 636-647.	3.6	8
67	Unloading the infarcted heart affect MMPsâ€"TIMPs axis in a rat cardiac heterotopic transplantation model. Molecular Biology Reports, 2012, 39, 277-283.	2.3	9
68	Effects of low-level laser irradiation on mesenchymal stem cell proliferation: a microarray analysis. Lasers in Medical Science, 2012, 27, 509-519.	2.1	73
69	Low-Level Laser Irradiation Alters Cardiac Cytokine Expression Following Acute Myocardial Infarction: A Potential Mechanism for Laser Therapy. Photomedicine and Laser Surgery, 2011, 29, 391-398.	2.0	33
70	Isolated Coronary Artery Bypass Graft Combined With Bone Marrow Mononuclear Cells Delivered Through a Graft Vessel for Patients With Previous Myocardial Infarction and Chronic Heart Failure. Journal of the American College of Cardiology, 2011, 57, 2409-2415.	2.8	97
71	Type-specific dysregulation of matrix metalloproteinases and their tissue inhibitors in end-stage heart failure patients: relationship between MMP-10 and LV remodelling. Journal of Cellular and Molecular Medicine, 2011, 15, 773-782.	3.6	19
72	Hybrid Therapy for Pulmonary Atresia With Intact Ventricular Septum. Annals of Thoracic Surgery, 2011, 91, 1467-1471.	1.3	30

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73	Intravenous administration of bone marrow mesenchymal stromal cells is safe for the lung in a chronic myocardial infarction model. Regenerative Medicine, 2011, 6, 179-190.	1.7	33
74	Impact of Escaped Bone Marrow Mesenchymal Stromal Cells on Extracardiac Organs after Intramyocardial Implantation in a Rat Myocardial Infarction Model. Cell Transplantation, 2010, 19, 1599-1607.	2.5	14
75	Effects of Aprotinin on Short-Term and Long-Term Outcomes After Coronary Artery Bypass Grafting Surgery. Annals of Thoracic Surgery, 2010, 89, 1489-1495.	1.3	16
76	Low level laser irradiation precondition to create friendly milieu of infarcted myocardium and enhance early survival of transplanted bone marrow cells. Journal of Cellular and Molecular Medicine, 2010, 14, 1975-1987.	3.6	46
77	Cell survival and redistribution after transplantation into damaged myocardium. Journal of Cellular and Molecular Medicine, 2010, 14, no-no.	3.6	24
78	Aging Adversely Impacts Biological Properties of Human Bone Marrowâ€derived Mesenchymal Stem Cells: Implications for Tissue Engineering Heart Valve Construction. Artificial Organs, 2010, 34, 215-222.	1.9	62
79	Alteration of Parasympathetic/Sympathetic Ratio in the Infarcted Myocardium After Schwann Cell Transplantation Modified Electrophysiological Function of Heart. Circulation, 2010, 122, S193-200.	1.6	29
80	Upregulated expression of cardiac ankyrin repeat protein in human failing hearts due to arrhythmogenic right ventricular cardiomyopathy. European Journal of Heart Failure, 2009, 11, 559-566.	7.1	31
81	Intramyocardial injection of tannic acid attenuates postinfarction remodeling: A novel approach to stabilize the breaking extracellular matrix. Journal of Thoracic and Cardiovascular Surgery, 2009, 137, 216-222.e2.	0.8	25
82	A comparison before and after aprotinin was suspended in cardiac surgery: Different results in the real world from a single cardiac center in China. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 897-903.	0.8	22
83	Proteomic analysis reveals significant elevation of heat shock protein 70 in patients with chronic heart failure due to arrhythmogenic right ventricular cardiomyopathy. Molecular and Cellular Biochemistry, 2009, 332, 103-111.	3.1	37
84	Role of Cardiopulmonary Bypass and Arrested Heart Status in the Early Cell Distribution after Intracoronary Infusion of Bone Marrow Stromal Cells. Journal of Surgical Research, 2009, 153, 66-70.	1.6	4
85	In vitro effects of lowâ€level laser irradiation for bone marrow mesenchymal stem cells: Proliferation, growth factors secretion and myogenic differentiation. Lasers in Surgery and Medicine, 2008, 40, 726-733.	2.1	175
86	Mesenchymal stem cells and cardiac repair. Journal of Cellular and Molecular Medicine, 2008, 12, 1795-1810.	3.6	99
87	Intraoperative Cell Transplantation for Congestive Heart Failure: Experience in China. Seminars in Thoracic and Cardiovascular Surgery, 2008, 20, 126-130.	0.6	4
88	Tissue Extracts From Infarcted Myocardium of Rats in Promoting the Differentiation of Bone Marrow Stromal Cells Into Cardiomyocyte-like Cells. Biomedical and Environmental Sciences, 2008, 21, 110-117.	0.2	11
89	Apolipoprotein D as a novel marker in human end-stage heart failure: a preliminary study. Biomarkers, 2008, 13, 535-548.	1.9	15
90	Is It Possible to Obtain â€œTrue Endothelial Progenitor Cellsâ€• by In Vitro Culture of Bone Marrow Mononuclear Cells?. Stem Cells and Development, 2007, 16, 683-690.	2.1	31

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91	Embryonic stem cell transplantation for the treatment of myocardial infarction: Immune privilege or rejection. Transplant Immunology, 2007, 18, 88-93.	1.2	14
92	In vivo imaging of bone marrow mesenchymal stem cells transplanted into myocardium using magnetic resonance imaging: A novel method to trace the transplanted cells. International Journal of Cardiology, 2007, 114, 4-10.	1.7	50
93	Transplantation of mesenchymal stem cells from human bone marrow improves damaged heart function in rats. International Journal of Cardiology, 2007, 115, 220-228.	1.7	102
94	A Novel Integrated Rotor of Axial Blood Flow Pump Designed With Computational Fluid Dynamics. Artificial Organs, 2007, 31, 580-585.	1.9	16
95	Hybrid procedure for the neonatal management of pulmonary atresia with intact ventricular septum. Journal of Thoracic and Cardiovascular Surgery, 2007, 133, 1654-1656.	0.8	18
96	Injection of bone marrow mesenchymal stem cells in the borderline area of infarcted myocardium: Heart status and cell distribution. Journal of Thoracic and Cardiovascular Surgery, 2007, 134, 1234-1240.e1.	0.8	58
97	Artificial Matrix Helps Neonatal Cardiomyocytes Restore Injured Myocardium in Rats. Artificial Organs, 2006, 30, 86-93.	1.9	54
98	Cartilage-Derived Stromal Cells: Is It a Novel Cell Resource for Cell Therapy to Regenerate Infarcted Myocardium?. Stem Cells, 2006, 24, 349-356.	3.2	20
99	Increasing donor age adversely impacts beneficial effects of bone marrow but not smooth muscle myocardial cell therapy. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2089-H2096.	3.2	119