Mahmood Khan

List of Publications by Year in Descending Order

94 papers	3,082 citations	32 h-index	52 g-index
108 ext. papers	3,465 ext. citations	5.5 avg, IF	4.94 L-index

#	Paper	IF	Citations
94	In situ differentiation of human-induced pluripotent stem cells into functional cardiomyocytes on a coaxial PCL-gelatin nanofibrous scaffold. *Materials Science and Engineering C*, **2021**, 118, 111354	8.3	8
93	Emerging Roles of Extracellular Vesicles Derived Non-Coding RNAs in the Cardiovascular System. *Sub-Cellular Biochemistry*, **2021**, 97, 437-453	5.5	1
92	Pluripotent stem cell-induced skeletal muscle progenitor cells with givinostat promote myoangiogenesis and restore dystrophin in injured Duchenne dystrophic muscle. *Stem Cell Research and Therapy*, **2021**, 12, 131	8.3	2
91	Drug Delivery Modalities for Treating Damaged Hearts: Current Challenges and Emerging Solutions. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 742315	5.4	0
90	Electrospun Aligned Coaxial Nanofibrous Scaffold for Cardiac Repair. *Methods in Molecular Biology*, **2021**, 2193, 129-140	1.4	8
89	Tumor-Derived Extracellular Vesicles Induce Abnormal Angiogenesis TRPV4 Downregulation and Subsequent Activation of YAP and VEGFR2.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 790489	5.8	0
88	Human Cardiac Progenitor Cells Enhance Exosome Release and Promote Angiogenesis Under Physoxia. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 130	5.7	13
87	Nanoparticle-Mediated Drug Delivery for Treatment of Ischemic Heart Disease. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 687	5.8	21
86	Extracellular Vesicles From Notch Activated Cardiac Mesenchymal Stem Cells Promote Myocyte Proliferation and Neovasculogenesis. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 11	5.7	15
85	Measurement of Oxidative Stress Markers In Vitro Using Commercially Available Kits. *Biological Magnetic Resonance*, **2020**, 39-60	0.5	1
84	Scalable Biomimetic Coaxial Aligned Nanofiber Cardiac Patch: A Potential Model for "Clinical Trials in a Dish". *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 567842	5.8	13
83	Current Status and Potential Therapeutic Strategies for Using Non-coding RNA to Treat Diabetic Cardiomyopathy. *Frontiers in Physiology*, **2020**, 11, 612722	4.6	2
82	Assessment of temporal functional changes and miRNA profiling of human iPSC-derived cardiomyocytes. *Scientific Reports*, **2019**, 9, 13188	4.9	16
81	Current research trends and challenges in tissue engineering for mending broken hearts. *Life Sciences*, **2019**, 229, 233-250	6.8	20
80	Nontuberculous mycobacterium M.□avium infection predisposes aged mice to cardiac abnormalities and inflammation. *Aging Cell*, **2019**, 18, e12926	9.9	7
79	Mouse embryonic stem cell-derived cardiomyocytes cease to beat following exposure to monochromatic light: association with increased ROS and loss of calcium transients. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C725-C736	5.4	3
78	Sustained Release of Basic Fibroblast Growth Factor (bFGF) Encapsulated Polycaprolactone (PCL) Microspheres Promote Angiogenesis In Vivo. *Nanomaterials*, **2019**, 9,	5.4	15

77	Chloride channel blocker IAA-94 increases myocardial infarction by reducing calcium retention capacity of the cardiac mitochondria. *Life Sciences*, **2019**, 235, 116841	6.8	6
76	Extracellular Vesicles From Pathological Microenvironment Induce Endothelial Cell Transformation and Abnormal Angiogenesis via Modulation of TRPV4 Channels. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 344	5.7	7
75	Expression and Activation of BK Channels in Mice Protects Against Ischemia-Reperfusion Injury of Isolated Hearts by Modulating Mitochondrial Function. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 194	5.4	23
74	Cardiac Biomarkers: What Is and What Can Be. *Indian Journal of Cardiovascular Disease in Women WINCARS*, **2018**, 3, 240-244	0.1	16
73	Extracellular Vesicles Released by Human Induced-Pluripotent Stem Cell-Derived Cardiomyocytes Promote Angiogenesis. *Frontiers in Physiology*, **2018**, 9, 1794	4.6	30
72	Supplemental Oxygen Protects Heart Against Acute Myocardial Infarction. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 114	5.4	8
71	Dual-Specificity Phosphatase 4 Overexpression in Cells Prevents Hypoxia/Reoxygenation-Induced Apoptosis the Upregulation of eNOS. *Frontiers in Cardiovascular Medicine*, **2017**, 4, 22	5.4	11
70	Potential Role of Exosomes in Mending a Broken Heart: Nanoshuttles Propelling Future Clinical Therapeutics Forward. *Stem Cells International*, **2017**, 2017, 5785436	5	29
69	Cardiac Electrical and Structural Changes During Bacterial Infection: An Instructive Model to Study Cardiac Dysfunction in Sepsis. *Journal of the American Heart Association*, **2016**, 5,	6	24
68	pH-Sensitive and Thermosensitive Hydrogels as Stem-Cell Carriers for Cardiac Therapy. *ACS Applied Materials & Interfaces*, **2016**, 8, 10752-60	9.5	60
67	Oxygen cycling to improve survival of stem cells for myocardial repair: A review. *Life Sciences*, **2016**, 153, 124-31	6.8	9
66	MicroRNAs with Mega Functions in Cardiac Remodeling and Repair: The Micromanagement of Matters of the Heart **2015**, 569-600		6
65	MicroRNA-133a engineered mesenchymal stem cells augment cardiac function and cell survival in the infarct heart. *Journal of Cardiovascular Pharmacology*, **2015**, 65, 241-51	3.1	46
64	Arterial levels of oxygen stimulate intimal hyperplasia in human saphenous veins via a ROS-dependent mechanism. *PLoS ONE*, **2015**, 10, e0120301	3.7	6
63	Evaluation of Changes in Morphology and Function of Human Induced Pluripotent Stem Cell Derived Cardiomyocytes (HiPSC-CMs) Cultured on an Aligned-Nanofiber Cardiac Patch. *PLoS ONE*, **2015**, 10, e0126338	3.7	69
62	Comparison of human induced pluripotent stem-cell derived cardiomyocytes with human mesenchymal stem cells following acute myocardial infarction. *PLoS ONE*, **2014**, 9, e116281	3.7	43
61	Dysregulation of PTEN in cardiopulmonary vascular remodeling induced by pulmonary hypertension. *Cell Biochemistry and Biophysics*, **2013**, 67, 363-72	3.2	25
60	Noninvasive monitoring of small intestinal oxygen in a rat model of chronic mesenteric ischemia. *Cell Biochemistry and Biophysics*, **2013**, 67, 451-9	3.2	24

59	Effect of pulmonary-generated reactive oxygen species on left-ventricular dysfunction associated with cardio-pulmonary ischemia-reperfusion injury. *Cell Biochemistry and Biophysics*, **2013**, 67, 275-80	3.2	1
58	Emerging role of oxidative stress in metabolic syndrome and cardiovascular diseases: important role of Rac/NADPH oxidase. *Journal of Pathology*, **2013**, 231, 290-300	9.4	84
57	Stem cell transplantation as a therapy for cardiac fibrosis. *Journal of Pathology*, **2013**, 229, 347-54	9.4	45
56	Selective inhibition of hypoxia-inducible factor 1 ameliorates adipose tissue dysfunction. *Molecular and Cellular Biology*, **2013**, 33, 904-17	4.8	141
55	Considerations of Quality Control Issues for the Mesenchymal Stem Cells-Based Medicinal Products **2013**, 265-278		
54	Pulmonary hypertension secondary to left-heart failure involves peroxynitrite-induced downregulation of PTEN in the lung. *Hypertension*, **2013**, 61, 593-601	8.5	21
53	p53 s choice of myocardial death or survival: Oxygen protects infarct myocardium by recruiting p53 on NOS3 promoter through regulation of p53-Lys(118) acetylation. *EMBO Molecular Medicine*, **2013**, 5, 1662-83	12	21
52	Myocardial Rac1 exhibits partial involvement in thyroxin-induced cardiomyocyte hypertrophy and its inhibition is not sufficient to improve cardiac dysfunction or contractile abnormalities in mouse papillary muscles. *Journal of Cardiovascular Pharmacology*, **2013**, 61, 536-44	3.1	11
51	Intermittent hypoxia exacerbates pancreatic cell dysfunction in a mouse model of diabetes mellitus. *Sleep*, **2013**, 36, 1849-58	1.1	33
50	Sivelestat attenuates myocardial reperfusion injury during brief low flow postischemic infusion. *Oxidative Medicine and Cellular Longevity*, **2013**, 2013, 279847	6.7	7
49	MicroRNAs in Mesenchymal Stem Cells **2013**, 101-126		1
48	Rac-induced left ventricular dilation in thyroxin-treated ZmRacD transgenic mice: role of cardiomyocyte apoptosis and myocardial fibrosis. *PLoS ONE*, **2012**, 7, e42500	3.7	15
47	Oxygen cycling in conjunction with stem cell transplantation induces NOS3 expression leading to attenuation of fibrosis and improved cardiac function. *Cardiovascular Research*, **2012**, 93, 89-99	9.9	32
46	Mesenchymal stem cells for cardiac regeneration: translation to bedside reality. *Stem Cells International*, **2012**, 2012, 646038	5	36
45	Carvedilol enhances mesenchymal stem cell therapy for myocardial infarction via inhibition of caspase-3 expression. *Journal of Pharmacology and Experimental Therapeutics*, **2012**, 343, 62-71	4.7	22
44	Physiologic Cardiac Hypertrophy and Cardiac Dilation: A Comparative Study Using ZmRacD Transgenic Mouse Model. *FASEB Journal*, **2012**, 26, 615.1	0.9	
43	Tetrahydrobiopterin depletion and NOS2 uncoupling contribute to heart failure-induced alterations in atrial electrophysiology. *Cardiovascular Research*, **2011**, 91, 71-9	9.9	62
42	Myeloid-derived suppressor cell inhibition of the IFN response in tumor-bearing mice. *Cancer Research*, **2011**, 71, 5101-10	10.1	144

41	MicroRNAs in cardiovascular disease. *F1000 Medicine Reports*, **2011**, 3, 10		11
40	Amelioration of doxorubicin-induced cardiotoxicity by an anticancer-antioxidant dual-function compound, HO-3867. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 339, 350-7	4.7	37
39	Cardiac remodeling caused by transgenic overexpression of a corn Rac gene. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H868-80	5.2	13
38	Challenges to intestinal pO measurement using EPR. *Advances in Experimental Medicine and Biology*, **2011**, 701, 37-44	3.6	
37	Effect of oxygenation on stem-cell therapy for myocardial infarction. *Advances in Experimental Medicine and Biology*, **2011**, 701, 175-81	3.6	9
36	Oxygen-sensitive outcomes and gene expression in acute ischemic stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2010**, 30, 1275-87	7.3	39
35	Oxygenation inhibits ovarian tumor growth by downregulating STAT3 and cyclin-D1 expressions. *Cancer Biology and Therapy*, **2010**, 10, 386-90	4.6	30
34	Trimetazidine, administered at the onset of reperfusion, ameliorates myocardial dysfunction and injury by activation of p38 mitogen-activated protein kinase and Akt signaling. *Journal of Pharmacology and Experimental Therapeutics*, **2010**, 333, 421-9	4.7	51
33	Hypoxic preconditioning induces the expression of prosurvival and proangiogenic markers in mesenchymal stem cells. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C1562-70	5.4	152
32	Role of heat shock factor-1 activation in the doxorubicin-induced heart failure in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 298, H1832-41	5.2	48
31	Oxygen and oxygenation in stem-cell therapy for myocardial infarction. *Life Sciences*, **2010**, 87, 269-74	6.8	25
30	Crataegus oxycantha extract attenuates apoptotic incidence in myocardial ischemia-reperfusion injury by regulating Akt and HIF-1 signaling pathways. *Journal of Cardiovascular Pharmacology*, **2010**, 56, 526-31	3.1	14
29	Cardioprotective properties of Crataegus oxycantha extract against ischemia-reperfusion injury. *Phytomedicine*, **2010**, 17, 744-52	6.5	31
28	Injectable, rapid gelling and highly flexible hydrogel composites as growth factor and cell carriers. *Acta Biomaterialia*, **2010**, 6, 1978-91	10.8	146
27	Synthesis and study of new paramagnetic and diamagnetic verapamil derivatives. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 2954-63	3.4	3
26	Granulocyte macrophage colony-stimulating factor inhibits breast cancer growth and metastasis by invoking an anti-angiogenic program in tumor-educated macrophages. *Cancer Research*, **2009**, 69, 2133-40	10.1	129
25	Sulfaphenazole protects heart against ischemia-reperfusion injury and cardiac dysfunction by overexpression of iNOS, leading to enhancement of nitric oxide bioavailability and tissue oxygenation. *Antioxidants and Redox Signaling*, **2009**, 11, 725-38	8.4	37
24	Chronic heart failure and the substrate for atrial fibrillation. *Cardiovascular Research*, **2009**, 84, 227-36	9.9	58

23	Myocardial oxygenation and functional recovery in infarct rat hearts transplanted with mesenchymal stem cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H1263-73	5.2	40
22	Hyperbaric oxygenation enhances transplanted cell graft and functional recovery in the infarct heart. *Journal of Molecular and Cellular Cardiology*, **2009**, 47, 275-87	5.8	48
21	Pharmacological preconditioning of mesenchymal stem cells with trimetazidine (1-[2,3,4-trimethoxybenzyl]piperazine) protects hypoxic cells against oxidative stress and enhances recovery of myocardial function in infarcted heart through Bcl-2 expression. *Journal of Pharmacology and Experimental Therapeutics*, **2009**, 329, 543-50	4.7	110
20	Cardioprotection by HO-4038, a novel verapamil derivative, targeted against ischemia and reperfusion-mediated acute myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H140-51	5.2	29
19	Stem cell therapy with overexpressed VEGF and PDGF genes improves cardiac function in a rat infarct model. *PLoS ONE*, **2009**, 4, e7325	3.7	68
18	Measurement of oxygenation at the site of stem cell therapy in a murine model of myocardial infarction. *Advances in Experimental Medicine and Biology*, **2008**, 614, 45-52	3.6	17
17	Labeling of skeletal myoblasts with a novel oxygen-sensing spin probe for noninvasive monitoring of in situ oxygenation and cell therapy in heart. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H1254-61	5.2	16
16	Skeletal myoblasts transplanted in the ischemic myocardium enhance in situ oxygenation and recovery of contractile function. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H2129-39	5.2	44
15	Role of oxygen in postischemic myocardial injury. *Antioxidants and Redox Signaling*, **2007**, 9, 1193-206	8.4	57
14	N-hydroxy-pyrroline modification of verapamil exhibits antioxidant protection of the heart against ischemia/reperfusion-induced cardiac dysfunction without compromising its calcium antagonistic activity. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 323, 119-27	4.7	9
13	Cardioprotection by sulfaphenazole, a cytochrome p450 inhibitor: mitigation of ischemia-reperfusion injury by scavenging of reactive oxygen species. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 323, 813-21	4.7	28
12	Drug-Induced Nephrotoxicity Protection by Spirulina **2007**, 153-175		
11	Composition of Bone Marrow-Derived Progenitor Cells in the Cellular Infiltrate of Infarcted Hearts: Role of Local Oxygen Tension. *FASEB Journal*, **2007**, 21, A228	0.9	1
10	Protection against cisplatin-induced nephrotoxicity by Spirulina in rats. *Cancer Chemotherapy and Pharmacology*, **2006**, 58, 802-8	3.5	99
9	Protective effect of CardiPro against doxorubicin-induced cardiotoxicity in mice. *Phytomedicine*, **2006**, 13, 222-9	6.5	30
8	Spirulina attenuates cyclosporine-induced nephrotoxicity in rats. *Journal of Applied Toxicology*, **2006**, 26, 444-51	4.1	57
7	Prevention of postischemic myocardial reperfusion injury by the combined treatment of NCX-4016 and Tempol. *Journal of Cardiovascular Pharmacology*, **2006**, 48, 79-87	3.1	16
6	C-phycocyanin protects against ischemia-reperfusion injury of heart through involvement of p38 MAPK and ERK signaling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H2136-45	5.2	80

5	Attenuation of myocardial ischemia-reperfusion injury by trimetazidine derivatives functionalized with antioxidant properties. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 317, 921-8	4.7	27
4	C-phycocyanin ameliorates doxorubicin-induced oxidative stress and apoptosis in adult rat cardiomyocytes. *Journal of Cardiovascular Pharmacology*, **2006**, 47, 9-20	3.1	70
3	Structure-activity studies on the protection of Trimetazidine derivatives modified with nitroxides and their precursors from myocardial ischemia-reperfusion injury. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 5510-6	3.4	18
2	Protective effect of Spirulina against doxorubicin-induced cardiotoxicity. *Phytotherapy Research*, **2005**, 19, 1030-7	6.7	102
1	Measurement of Reactive Oxygen Species in Cardiovascular Disease359-370		