

Adrian H Chester

List of Publications by Year in descending order

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39
papers

1,622
citations

430874

18
h-index

345221

36
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41
all docs

41
docs citations

41
times ranked

2133
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-analytical electron microscopy reveals fundamental insights into human cardiovascular tissue calcification. <i>Nature Materials</i> , 2013, 12, 576-583.	27.5	228
2	Role of Human Valve Interstitial Cells in Valve Calcification and Their Response to Atorvastatin. <i>Circulation</i> , 2006, 114, 1547-52.	1.6	181
3	Collagen synthesis by mesenchymal stem cells and aortic valve interstitial cells in response to mechanical stretch. <i>Cardiovascular Research</i> , 2006, 71, 548-556.	3.8	153
4	Side-Specific Endothelial-Dependent Regulation of Aortic Valve Calcification. <i>American Journal of Pathology</i> , 2013, 182, 1922-1931.	3.8	137
5	Endothelium-Dependent Regulation of the Mechanical Properties of Aortic Valve Cusps. <i>Journal of the American College of Cardiology</i> , 2009, 53, 1448-1455.	2.8	122
6	Molecular and functional characteristics of heart-valve interstitial cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1437-1443.	4.0	111
7	Expression of smooth muscle cell markers and co-activators in calcified aortic valves. <i>European Heart Journal</i> , 2015, 36, 1335-1345.	2.2	84
8	Modulation of Human Valve Interstitial Cell Phenotype and Function Using a Fibroblast Growth Factor 2 Formulation. <i>PLoS ONE</i> , 2015, 10, e0127844.	2.5	64
9	Raman spectroscopy imaging reveals interplay between atherosclerosis and medial calcification in the human aorta. <i>Science Advances</i> , 2017, 3, e1701156.	10.3	60
10	Induction of nitric oxide synthase in human vascular smooth muscle: interactions between proinflammatory cytokines. <i>Cardiovascular Research</i> , 1998, 38, 814-821.	3.8	53
11	Characterization of Porcine Aortic Valvular Interstitial Cell "Calcified"™ Nodules. <i>PLoS ONE</i> , 2012, 7, e48154.	2.5	47
12	EXPLANTED VEIN GRAFTS WITH AN INTACT ENDOTHELIUM DEMONSTRATE REDUCED FOCAL EXPRESSION OF ENDOTHELIAL NITRIC OXIDE SYNTHASE SPECIFIC TO ATHEROSCLEROTIC SITES. , 1996, 179, 197-203.		33
13	Chemical and biological assessment of metal organic frameworks (MOFs) in pulmonary cells and in an acute in vivo model: relevance to pulmonary arterial hypertension therapy. <i>Pulmonary Circulation</i> , 2017, 7, 643-653.	1.7	33
14	Alternative pathways of angiotensin II production in the human saphenous vein. <i>British Journal of Pharmacology</i> , 1998, 125, 423-428.	5.4	27
15	Elevated cyclic stretch and serotonin result in altered aortic valve remodeling via a mechanosensitive 5-HT2A receptor-dependent pathway. <i>Cardiovascular Pathology</i> , 2012, 21, 206-213.	1.6	26
16	Valve Endothelial Cells - Not Just Any Old Endothelial Cells. <i>Current Vascular Pharmacology</i> , 2016, 14, 146-154.	1.7	26
17	Localisation and function of nerves in the aortic root. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 1045-1052.	1.9	21
18	Hypoxia-mediated regulation of the secretory properties of mitral valve interstitial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H14-H23.	3.2	20

#	ARTICLE	IF	CITATIONS
19	Cellular Mechanisms in Mitral Valve Disease. <i>Journal of Cardiovascular Translational Research</i> , 2011, 4, 702-709.	2.4	19
20	Side-specific mechanical properties of valve endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H15-H24.	3.2	19
21	Effect of Side-Specific Valvular Shear Stress on the Content of Extracellular Matrix in Aortic Valves. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 151-157.	1.6	18
22	Expression, localisation and function of ACE and chymase in normal and atherosclerotic human coronary arteries. <i>Vascular Pharmacology</i> , 2005, 42, 99-108.	2.1	17
23	INHIBITION OF HUMAN CARDIAC FIBROBLAST MITOGENESIS BY BLOCKADE OF MITOGEN-ACTIVATED PROTEIN KINASE AND PHOSPHATIDYLINOSITOL 3-KINASE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1999, 26, 511-513.	1.9	16
24	Cardiac regeneration following cryoinjury in the adult zebrafish targets a maturation-specific biomechanical remodeling program. <i>Scientific Reports</i> , 2018, 8, 15661.	3.3	16
25	A redox-based mechanism for nitric oxide-induced inhibition of DNA synthesis in human vascular smooth muscle cells. <i>British Journal of Pharmacology</i> , 2000, 129, 1513-1521.	5.4	13
26	Aortic calcified particles modulate valvular endothelial and interstitial cells. <i>Cardiovascular Pathology</i> , 2017, 28, 36-45.	1.6	13
27	Expression and function of mechanosensitive ion channels in human valve interstitial cells. <i>PLoS ONE</i> , 2020, 15, e0240532.	2.5	13
28	Endothelin-1 and the Aortic Valve. <i>Current Vascular Pharmacology</i> , 2005, 3, 353-357.	1.7	11
29	Cardiovascular calcification violet pearl. <i>Lancet, The</i> , 2014, 384, 1294.	13.7	9
30	Differential regulation of DNA synthesis by nitric oxide and hydroxyurea in vascular smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H1799-H1807.	3.2	7
31	CD39 and CD73 in the aortic valve—biochemical and immunohistochemical analysis in valve cell populations and its changes in valve mineralization. <i>Cardiovascular Pathology</i> , 2018, 36, 53-63.	1.6	7
32	Oxidized low-density lipoproteins enhance expression and activity of CD39 and CD73 in the human aortic valve endothelium. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016, 35, 713-719.	1.1	6
33	Interferons Are Pro-Inflammatory Cytokines in Sheared-Stressed Human Aortic Valve Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10605.	4.1	5
34	Correlation between vascular responsiveness and expression of novel transcripts of the ETA-receptor in human vascular tissue. <i>Vascular Pharmacology</i> , 2007, 46, 181-187.	2.1	4
35	Tissue Engineering—Bridging the Gap. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 91-92.	2.4	1
36	Coronary vasodilation mediated by T cells expressing choline acetyltransferase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H933-H939.	3.2	1

#	ARTICLE	IF	CITATIONS
37	Effect of the Contractile Properties of the Aortic Root on Valve Competence In Vitro. Journal of Cardiac Surgery, 2002, 17, 561-561.	0.7	0
38	Metal Organic Framework as a Potential Drug Carrier for Pulmonary Arterial Hypertension. , 2016, , .		0
39	Atypical Expression of Smooth Muscle Markers and Co-activators and Their Regulation in Rheumatic Aortic and Calcified Bicuspid Valves. Frontiers in Cardiovascular Medicine, 2022, 9, 793666.	2.4	0