

Caroline Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,205
citations

257450

24
h-index

155660

55
g-index

58
all docs

58
docs citations

58
times ranked

5529
citing authors

#	ARTICLE	IF	CITATIONS
1	Atherosclerotic Lesion Size and Vulnerability Are Determined by Patterns of Fluid Shear Stress. <i>Circulation</i> , 2006, 113, 2744-2753.	1.6	911
2	Connecting heart failure with preserved ejection fraction and renal dysfunction: the role of endothelial dysfunction and inflammation. <i>European Journal of Heart Failure</i> , 2016, 18, 588-598.	7.1	242
3	Shear stress affects the intracellular distribution of eNOS: direct demonstration by a novel in vivo technique. <i>Blood</i> , 2005, 106, 3691-3698.	1.4	236
4	Large variations in absolute wall shear stress levels within one species and between species. <i>Atherosclerosis</i> , 2007, 195, 225-235.	0.8	190
5	Multiple common comorbidities produce left ventricular diastolic dysfunction associated with coronary microvascular dysfunction, oxidative stress, and myocardial stiffening. <i>Cardiovascular Research</i> , 2018, 114, 954-964.	3.8	148
6	The complex mural cell: Pericyte function in health and disease. <i>International Journal of Cardiology</i> , 2015, 190, 75-89.	1.7	124
7	The contribution of tumor-associated macrophages in glioma neo-angiogenesis and implications for anti-angiogenic strategies. <i>Neuro-Oncology</i> , 2017, 19, 1435-1446.	1.2	121
8	Endothelial Cell-Specific FGD5 Involvement in Vascular Pruning Defines Neovessel Fate in Mice. <i>Circulation</i> , 2012, 125, 3142-3159.	1.6	65
9	Distinct Endothelial Cell Responses in the Heart and Kidney Microvasculature Characterize the Progression of Heart Failure With Preserved Ejection Fraction in the Obese ZSF1 Rat With Cardiorenal Metabolic Syndrome. <i>Circulation: Heart Failure</i> , 2016, 9, e002760.	3.9	62
10	Rapamycin modulates the eNOS vs. shear stress relationship. <i>Cardiovascular Research</i> , 2008, 78, 123-129.	3.8	61
11	Expression site of P2RY12 in residential microglial cells in astrocytomas correlates with M1 and M2 marker expression and tumor grade. <i>Acta Neuropathologica Communications</i> , 2017, 5, 4.	5.2	61
12	CMTM4 regulates angiogenesis by promoting cell surface recycling of VE-cadherin to endothelial adherens junctions. <i>Angiogenesis</i> , 2019, 22, 75-93.	7.2	61
13	Activation of MMP8 and MMP13 by angiotensin II correlates to severe intra-plaque hemorrhages and collagen breakdown in atherosclerotic lesions with a vulnerable phenotype. <i>Atherosclerosis</i> , 2009, 204, 26-33.	0.8	57
14	MicroRNA-132/212 family enhances arteriogenesis after hindlimb ischaemia through modulation of the Ras-MAPK pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 1994-2005.	3.6	56
15	Characteristic adaptations of the extracellular matrix in dilated cardiomyopathy. <i>International Journal of Cardiology</i> , 2016, 220, 634-646.	1.7	50
16	A new microfluidic model that allows monitoring of complex vascular structures and cell interactions in a 3D biological matrix. <i>Lab on A Chip</i> , 2020, 20, 1827-1844.	6.0	50
17	Ets2 Determines the Inflammatory State of Endothelial Cells in Advanced Atherosclerotic Lesions. <i>Circulation Research</i> , 2011, 109, 382-395.	4.5	45
18	Activation of CECR1 in M2-like TAMs promotes paracrine stimulation-mediated glial tumor progression. <i>Neuro-Oncology</i> , 2017, 19, now251.	1.2	44

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19	Folic acid reduces doxorubicin-induced cardiomyopathy by modulating endothelial nitric oxide synthase. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 3277-3287.	3.6	39
20	CXCL4 drives fibrosis by promoting several key cellular and molecular processes. <i>Cell Reports</i> , 2022, 38, 110189.	6.4	31
21	Dendritic Cell Function in Transplantation Arteriosclerosis Is Regulated by Heme Oxygenase 1. <i>Circulation Research</i> , 2010, 106, 1656-1666.	4.5	30
22	PDGF-Induced Migration of Vascular Smooth Muscle Cells Is Inhibited by Heme Oxygenase-1 Via VEGFR2 Upregulation and Subsequent Assembly of Inactive VEGFR2/PDGFR β Heterodimers. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1289-1298.	2.4	30
23	<i>THSD1</i> preserves vascular integrity and protects against intraplaque haemorrhaging in ApoE ^{-/-} mice. <i>Cardiovascular Research</i> , 2016, 110, 129-139.	3.8	30
24	CMTM3 (CKLF-Like Marvel Transmembrane Domain 3) Mediates Angiogenesis by Regulating Cell Surface Availability of VE-Cadherin in Endothelial Adherens Junctions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1098-1114.	2.4	30
25	Cgnl1, an endothelial junction complex protein, regulates GTPase mediated angiogenesis. <i>Cardiovascular Research</i> , 2017, 113, 1776-1788.	3.8	26
26	Both male and female obese ZSF1 rats develop cardiac dysfunction in obesity-induced heart failure with preserved ejection fraction. <i>PLoS ONE</i> , 2020, 15, e0232399.	2.5	26
27	Transcriptome analysis reveals microvascular endothelial cell-dependent pericyte differentiation. <i>Scientific Reports</i> , 2019, 9, 15586.	3.3	22
28	Chromatin Conformation Links Distal Target Genes to CKD Loci. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 462-476.	6.1	21
29	Periostin Is Expressed by Pericytes and Is Crucial for Angiogenesis in Glioma. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 863-872.	1.7	20
30	H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. <i>Clinical Epigenetics</i> , 2020, 12, 106.	4.1	20
31	Limited synergy of obesity and hypertension, prevalent risk factors in onset and progression of heart failure with preserved ejection fraction. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 6666-6678.	3.6	19
32	Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in Extracellular Matrix Remodeling during Left Ventricular Diastolic Dysfunction and Heart Failure with Preserved Ejection Fraction: A Systematic Review and Meta-Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6742.	4.1	19
33	Comparative proteomic analysis of cat eye syndrome critical region protein 1- function in tumor-associated macrophages and immune response regulation of glial tumors. <i>Oncotarget</i> , 2018, 9, 33500-33514.	1.8	18
34	Implementation of Pericytes in Vascular Regeneration Strategies. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 1-21.	4.8	17
35	Biological mechanisms of microvessel formation in advanced atherosclerosis: The big Five. <i>Trends in Cardiovascular Medicine</i> , 2013, 23, 153-164.	4.9	16
36	Uridine adenosine tetraphosphate acts as a proangiogenic factor in vitro through purinergic P2Y receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H299-H309.	3.2	16

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37	Cardiorenal disease connection during post-menopause: The protective role of estrogen in uremic toxins induced microvascular dysfunction. <i>International Journal of Cardiology</i> , 2017, 238, 22-30.	1.7	16
38	Inhibition of retinoic acid signaling induces aberrant pericyte coverage and differentiation resulting in vascular defects in congenital diaphragmatic hernia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L317-L331.	2.9	16
39	Mechanobiology of Microvascular Function and Structure in Health and Disease: Focus on the Coronary Circulation. <i>Frontiers in Physiology</i> , 2021, 12, 771960.	2.8	16
40	Renal Tubular and Vascular Basement Membranes and their Mimicry in Engineering Vascularized Kidney Tubules. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800529.	7.6	15
41	A proteome comparison between human fetal and mature renal extracellular matrix identifies EMILIN1 as a regulator of renal epithelial cell adhesion. <i>Matrix Biology Plus</i> , 2019, 4, 100011.	3.5	13
42	Altered purinergic signaling in uridine adenosine tetraphosphate-induced coronary relaxation in swine with metabolic derangement. <i>Purinergic Signalling</i> , 2017, 13, 319-329.	2.2	12
43	Endothelial loss of Fzd5 stimulates PKC/Ets1-mediated transcription of Angpt2 and Flt1. <i>Angiogenesis</i> , 2018, 21, 805-821.	7.2	12
44	Control of Angiogenesis via a VHL/miR-212/132 Axis. <i>Cells</i> , 2020, 9, 1017.	4.1	12
45	Lymphatic Vascular Regeneration: The Next Step in Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 1-14.	4.8	11
46	Indoxyl Sulfate Stimulates Angiogenesis by Regulating Reactive Oxygen Species Production via CYP1B1. <i>Toxins</i> , 2019, 11, 454.	3.4	11
47	Effect of shear stress alteration on atherosclerotic plaque vulnerability in cholesterol-fed rabbits. <i>Vascular Medicine</i> , 2014, 19, 94-102.	1.5	10
48	Extracellular Granzyme K Modulates Angiogenesis by Regulating Soluble VEGFR1 Release From Endothelial Cells. <i>Frontiers in Oncology</i> , 2021, 11, 681967.	2.8	9
49	Integrative Functional Annotation of 52 Genetic Loci Influencing Myocardial Mass Identifies Candidate Regulatory Variants and Target Genes. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002328.	3.6	7
50	Cardiovascular Tissue Engineering and Regeneration: A Plea for Further Knowledge Convergence. <i>Tissue Engineering - Part A</i> , 2022, 28, 525-541.	3.1	6
51	Uridine Adenosine Tetraphosphate-Induced Coronary Relaxation Is Blunted in Swine With Pressure Overload: A Role for Vasoconstrictor Prostanoids. <i>Frontiers in Pharmacology</i> , 2018, 9, 255.	3.5	5
52	Three-dimensional tubule formation assay as therapeutic screening model for ocular microvascular disorders. <i>Eye</i> , 2018, 32, 1380-1386.	2.1	5
53	Extracellular Matrix Analysis of Human Renal Arteries in Both Quiescent and Active Vascular State. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3905.	4.1	5
54	Renal Biology Driven Macro- and Microscale Design Strategies for Creating an Artificial Proximal Tubule Using Fiber-Based Technologies. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4679-4693.	5.2	5

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55	Notchâ€“Rhoâ€“cGMP interaction: common point of convergence in microvascular aging-related disease. <i>Clinical Science</i> , 2021, 135, 1209-1212.	4.3	2
56	IMMU-02. PROTEOMIC ANALYSIS IDENTIFIED CECR1 MEDIATED RESPONSE IN MACROPHAGE AND TUMOR ASSOCIATED MACROPHAGE. <i>Neuro-Oncology</i> , 2018, 20, i98-i99.	1.2	0
57	Dissociation between hypertrophy and fibrosis in the left ventricle early after experimental kidney transplantation. <i>Journal of Hypertension</i> , 2020, 38, 489-503.	0.5	0