Caroline Cheng

List of Publications by Year
in descending order

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	Implementation of Pericytes in Vascular Regeneration Strategies. Tissue Engineering - Part B: Reviews, 2022, 28, 1-21.	4.8	17
2	CXCL4 drives fibrosis by promoting several key cellular and molecular processes. Cell Reports, 2022, 38, 110189.	6.4	31
3	Cardiovascular Tissue Engineering and Regeneration: A Plead for Further Knowledge Convergence. Tissue Engineering - Part A, 2022, 28, 525-541.	3.1	6
4	Notchâ€“Rhoâ€“cGMP interaction: common point of convergence in microvascular aging-related disease. Clinical Science, 2021, 135, 1209-1212.	4.3	2
5	Extracellular Granzyme K Modulates Angiogenesis by Regulating Soluble VEGFR1 Release From Endothelial Cells. Frontiers in Oncology, 2021, 11, 681967.	2.8	9
6	Renal Biology Driven Macro- and Microscale Design Strategies for Creating an Artificial Proximal Tubule Using Fiber-Based Technologies. ACS Biomaterials Science and Engineering, 2021, 7, 4679-4693.	5.2	5
7	Mechanobiology of Microvascular Function and Structure in Health and Disease: Focus on the Coronary Circulation. Frontiers in Physiology, 2021, 12, 771960.	2.8	16
8	Periostin Is Expressed by Pericytes and Is Crucial for Angiogenesis in Glioma. Journal of Neuropathology and Experimental Neurology, 2020, 79, 863-872.	1.7	20
9	H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. Clinical Epigenetics, 2020, 12, 106.	4.1	20
10	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. International Journal of Molecular Sciences, 2020, 21, 6742.	4.1	19
11	Both male and female obese ZSF1 rats develop cardiac dysfunction in obesity-induced heart failure with preserved ejection fraction. PLoS ONE, 2020, 15, e0232399.	2.5	26
12	Extracellular Matrix Analysis of Human Renal Arteries in Both Quiescent and Active Vascular State. International Journal of Molecular Sciences, 2020, 21, 3905.	4.1	5
13	Control of Angiogenesis via a VHL/miR-212/132 Axis. Cells, 2020, 9, 1017.	4.1	12
14	A new microfluidic model that allows monitoring of complex vascular structures and cell interactions in a 3D biological matrix. Lab on A Chip, 2020, 20, 1827-1844.	6.0	50
15	Dissociation between hypertrophy and fibrosis in the left ventricle early after experimental kidney transplantation. Journal of Hypertension, 2020, 38, 489-503.	0.5	0
16	CMTM4 regulates angiogenesis by promoting cell surface recycling of VE-cadherin to endothelial adherens junctions. Angiogenesis, 2019, 22, 75-93.	7.2	61
17	Indoxyl Sulfate Stimulates Angiogenesis by Regulating Reactive Oxygen Species Production via CYP1B1. Toxins, 2019, 11, 454.	3.4	11
18	Limited synergy of obesity and hypertension, prevalent risk factors in onset and progression of heart failure with preserved ejection fraction. Journal of Cellular and Molecular Medicine, 2019, 23, 6666-6678.	3.6	19

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19	Inhibition of retinoic acid signaling induces aberrant pericyte coverage and differentiation resulting in vascular defects in congenital diaphragmatic hernia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L317-L331.	2.9	16
20	A proteome comparison between human fetal and mature renal extracellular matrix identifies EMILIN1 as a regulator of renal epithelial cell adhesion. Matrix Biology Plus, 2019, 4, 100011.	3.5	13
21	Transcriptome analysis reveals microvascular endothelial cell-dependent pericyte differentiation. Scientific Reports, 2019, 9, 15586.	3.3	22
22	Integrative Functional Annotation of 52 Genetic Loci Influencing Myocardial Mass Identifies Candidate Regulatory Variants and Target Genes. Circulation Genomic and Precision Medicine, 2019, 12, e002328.	3.6	7
23	Multiple common comorbidities produce left ventricular diastolic dysfunction associated with coronary microvascular dysfunction, oxidative stress, and myocardial stiffening. Cardiovascular Research, 2018, 114, 954-964.	3.8	148
24	Chromatin Conformation Links Distal Target Genes to CKD Loci. Journal of the American Society of Nephrology: JASN, 2018, 29, 462-476.	6.1	21
25	IMMU-02. PROTEOMIC ANALYSIS IDENTIFIED CECR1 MEDIATED RESPONSE IN MACROPHAGE AND TUMOR ASSOCIATED MACROPHAGE. Neuro-Oncology, 2018, 20, i98-i99.	1.2	0
26	Endothelial loss of Fzd5 stimulates PKC/Ets1-mediated transcription of Angpt2 and Flt1. Angiogenesis, 2018, 21, 805-821.	7.2	12
27	Uridine Adenosine Tetraphosphate-Induced Coronary Relaxation Is Blunted in Swine With Pressure Overload: A Role for Vasoconstrictor Prostanoids. Frontiers in Pharmacology, 2018, 9, 255.	3.5	5
28	Three-dimensional tubule formation assay as therapeutic screening model for ocular microvascular disorders. Eye, 2018, 32, 1380-1386.	2.1	5
29	Renal Tubularâ€•and Vascular Basement Membranes and their Mimicry in Engineering Vascularized Kidney Tubules. Advanced Healthcare Materials, 2018, 7, e1800529.	7.6	15
30	Comparative proteomic analysis of cat eye syndrome critical region protein 1- function in tumor-associated macrophages and immune response regulation of glial tumors. Oncotarget, 2018, 9, 33500-33514.	1.8	18
31	CMTM3 (CKLF-Like Marvel Transmembrane Domain 3) Mediates Angiogenesis by Regulating Cell Surface Availability of VE-Cadherin in Endothelial Adherens Junctions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1098-1114.	2.4	30
32	Expression site of P2RY12 in residential microglial cells in astrocytomas correlates with M1 and M2 marker expression and tumor grade. Acta Neuropathologica Communications, 2017, 5, 4.	5.2	61
33	Altered purinergic signaling in uridine adenosine tetraphosphate-induced coronary relaxation in swine with metabolic derangement. Purinergic Signalling, 2017, 13, 319-329.	2.2	12
34	Folic acid reduces doxorubicinâ€•induced cardiomyopathy by modulating endothelial nitric oxide synthase. Journal of Cellular and Molecular Medicine, 2017, 21, 3277-3287.	3.6	39
35	Cardiorenal disease connection during post-menopause: The protective role of estrogen in uremic toxins induced microvascular dysfunction. International Journal of Cardiology, 2017, 238, 22-30.	1.7	16
36	Activation of CECR1 in M2-like TAMs promotes paracrine stimulation-mediated glial tumor progression. Neuro-Oncology, 2017, 19, now251.	1.2	44

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37	Cgnl1, an endothelial junction complex protein, regulates GTPase mediated angiogenesis. Cardiovascular Research, 2017, 113, 1776-1788.	3.8	26
38	The contribution of tumor-associated macrophages in glioma neo-angiogenesis and implications for anti-angiogenic strategies. Neuro-Oncology, 2017, 19, 1435-1446.	1.2	121
39	Connecting heart failure with preserved ejection fraction and renal dysfunction: the role of endothelial dysfunction and inflammation. European Journal of Heart Failure, 2016, 18, 588-598.	7.1	242
40	Uridine adenosine tetraphosphate acts as a proangiogenic factor in vitro through purinergic P2Y receptors. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H299-H309.	3.2	16
41	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. Circulation: Heart Failure, 2016, 9, e002760.	3.9	62
42	Characteristic adaptations of the extracellular matrix in dilated cardiomyopathy. International Journal of Cardiology, 2016, 220, 634-646.	1.7	50
43	THSD1preserves vascular integrity and protects against intraplaque haemorrhaging in ApoE^{â^'/â^'}mice. Cardiovascular Research, 2016, 110, 129-139.	3.8	30
44	Lymphatic Vascular Regeneration: The Next Step in Tissue Engineering. Tissue Engineering - Part B: Reviews, 2016, 22, 1-14.	4.8	11
45	Micro<scp>RNA</scp>â€132/212 family enhances arteriogenesis after hindlimbÂischaemia through modulation of the Rasâ€<scp>MAPK</scp> pathway. Journal of Cellular and Molecular Medicine, 2015, 19, 1994-2005.	3.6	56
46	The complex mural cell: Pericyte function in health and disease. International Journal of Cardiology, 2015, 190, 75-89.	1.7	124
47	Effect of shear stress alteration on atherosclerotic plaque vulnerability in cholesterol-fed rabbits. Vascular Medicine, 2014, 19, 94-102.	1.5	10
48	Biological mechanisms of microvessel formation in advanced atherosclerosis: The big Five. Trends in Cardiovascular Medicine, 2013, 23, 153-164.	4.9	16
49	PDGF-Induced Migration of Vascular Smooth Muscle Cells Is Inhibited by Heme Oxygenase-1 Via VEGFR2 Upregulation and Subsequent Assembly of Inactive VEGFR2/PDGFRÎ² Heterodimers. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1289-1298.	2.4	30
50	Endothelial Cellâ€"Specific FGD5 Involvement in Vascular Pruning Defines Neovessel Fate in Mice. Circulation, 2012, 125, 3142-3159.	1.6	65
51	Ets2 Determines the Inflammatory State of Endothelial Cells in Advanced Atherosclerotic Lesions. Circulation Research, 2011, 109, 382-395.	4.5	45
52	Dendritic Cell Function in Transplantation Arteriosclerosis Is Regulated by Heme Oxygenase 1. Circulation Research, 2010, 106, 1656-1666.	4.5	30
53	Activation of MMP8 and MMP13 by angiotensin II correlates to severe intra-plaque hemorrhages and collagen breakdown in atherosclerotic lesions with a vulnerable phenotype. Atherosclerosis, 2009, 204, 26-33.	0.8	57
54	Rapamycin modulates the eNOS vs. shear stress relationship. Cardiovascular Research, 2008, 78, 123-129.	3.8	61

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55	Large variations in absolute wall shear stress levels within one species and between species. Atherosclerosis, 2007, 195, 225-235.	0.8	190
56	Atherosclerotic Lesion Size and Vulnerability Are Determined by Patterns of Fluid Shear Stress. Circulation, 2006, 113, 2744-2753.	1.6	911
57	Shear stress affects the intracellular distribution of eNOS: direct demonstration by a novel in vivo technique. Blood, 2005, 106, 3691-3698.	1.4	236