

Zhen Chen

List of Publications by Year in descending order

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67
papers

3,420
citations

159525

30
h-index

149623

56
g-index

75
all docs

75
docs citations

75
times ranked

6168
citing authors

#	ARTICLE	IF	CITATIONS
1	miR-103/107 Promote Metastasis of Colorectal Cancer by Targeting the Metastasis Suppressors DAPK and KLF4. <i>Cancer Research</i> , 2012, 72, 3631-3641.	0.4	279
2	Shear stress, SIRT1, and vascular homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10268-10273.	3.3	247
3	AMP-Activated Protein Kinase Functionally Phosphorylates Endothelial Nitric Oxide Synthase Ser633. <i>Circulation Research</i> , 2009, 104, 496-505.	2.0	230
4	Sterol Regulatory Element Binding Protein 2 Activation of NLRP3 Inflammasome in Endothelium Mediates Hemodynamic-Induced Atherosclerosis Susceptibility. <i>Circulation</i> , 2013, 128, 632-642.	1.6	215
5	Hypoxia-responsive miRNAs target argonaute 1 to promote angiogenesis. <i>Journal of Clinical Investigation</i> , 2013, 123, 1057-1067.	3.9	158
6	AMP-activated Protein Kinase Phosphorylation of Angiotensin-Converting Enzyme 2 in Endothelium Mitigates Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 509-520.	2.5	147
7	Epigenetic Regulation: A New Frontier for Biomedical Engineers. <i>Annual Review of Biomedical Engineering</i> , 2017, 19, 195-219.	5.7	135
8	Enhancer-associated long non-coding RNA LEENE regulates endothelial nitric oxide synthase and endothelial function. <i>Nature Communications</i> , 2018, 9, 292.	5.8	129
9	Oxidative Stress Activates Endothelial Innate Immunity via Sterol Regulatory Element Binding Protein 2 (SREBP2) Transactivation of MicroRNA-92a. <i>Circulation</i> , 2015, 131, 805-814.	1.6	127
10	Mechanosensitive microRNAs' role in endothelial responses to shear stress and redox state. <i>Free Radical Biology and Medicine</i> , 2013, 64, 61-68.	1.3	116
11	Tyrosine phosphatase SHP2 negatively regulates NLRP3 inflammasome activation via ANT1-dependent mitochondrial homeostasis. <i>Nature Communications</i> , 2017, 8, 2168.	5.8	101
12	Systems biology analysis of longitudinal functional response of endothelial cells to shear stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10990-10995.	3.3	95
13	miR-483 Targeting of CTGF Suppresses Endothelial-to-Mesenchymal Transition. <i>Circulation Research</i> , 2017, 120, 354-365.	2.0	93
14	MicroRNA-92a Mediates Endothelial Dysfunction in CKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 3251-3261.	3.0	90
15	Regulation of SIRT1 by Oxidative Stress-Responsive miRNAs and a Systematic Approach to Identify Its Role in the Endothelium. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1522-1538.	2.5	78
16	Ca ²⁺ /calmodulin-dependent protein kinase kinase $\hat{2}$ phosphorylation of Sirtuin 1 in endothelium is atheroprotective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2420-7.	3.3	72
17	Extracellular MicroRNA-92a Mediates Endothelial Cell-Macrophage Communication. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2492-2504.	1.1	65
18	LINC00341 exerts an anti-inflammatory effect on endothelial cells by repressing VCAM1. <i>Physiological Genomics</i> , 2017, 49, 339-345.	1.0	53

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19	Genome-wide colocalization of RNA–DNA interactions and fusion RNA pairs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3328-3337.	3.3	52
20	Cholesterol loading increases the translocation of ATP synthase \hat{F}_2 chain into membrane caveolae in vascular endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006, 1761, 1182-1190.	1.2	47
21	Shear stress activation of nuclear receptor PXR in endothelial detoxification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13174-13179.	3.3	47
22	Extracellular RNA in a single droplet of human serum reflects physiologic and disease states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19200-19208.	3.3	46
23	Atheroprotective Flow Upregulates ITPR3 (Inositol 1,4,5-Trisphosphate Receptor 3) in Vascular Endothelium via KLF4 (Krüppel-Like Factor 4)-Mediated Histone Modifications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 902-914.	1.1	45
24	Suppression of Endothelial AGO1 Promotes Adipose Tissue Browning and Improves Metabolic Dysfunction. <i>Circulation</i> , 2020, 142, 365-379.	1.6	44
25	Glucagon regulates ACC activity in adipocytes through the CAMKK $\hat{2}$ /AMPK pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E1560-E1568.	1.8	43
26	TIFA as a crucial mediator for NLRP3 inflammasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15078-15083.	3.3	43
27	Longitudinal shear stress response in human endothelial cells to atheroprone and atheroprotective conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	43
28	\hat{F}_2 -Lapachone and Paclitaxel Combination Micelles with Improved Drug Encapsulation and Therapeutic Synergy as Novel Nanotherapeutics for NQO1-Targeted Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2015, 12, 3999-4010.	2.3	40
29	Stress-induced RNA–chromatin interactions promote endothelial dysfunction. <i>Nature Communications</i> , 2020, 11, 5211.	5.8	39
30	Cardiovascular Protective Effect of Metformin and Telmisartan: Reduction of PARP1 Activity via the AMPK-PARP1 Cascade. <i>PLoS ONE</i> , 2016, 11, e0151845.	1.1	38
31	Mapping RNA–chromatin interactions by sequencing with iMARGI. <i>Nature Protocols</i> , 2019, 14, 3243-3272.	5.5	36
32	Endothelial dysfunction. <i>Current Opinion in Lipidology</i> , 2014, 25, 339-349.	1.2	35
33	Presymptomatic Increase of an Extracellular RNA in Blood Plasma Associates with the Development of Alzheimer’s Disease. <i>Current Biology</i> , 2020, 30, 1771-1782.e3.	1.8	32
34	Treatment of hypertension by increasing impaired endothelial TRPV4–TRPV1 interaction. <i>EMBO Molecular Medicine</i> , 2017, 9, 1491-1503.	3.3	30
35	Orai1 is critical for Notch-driven aggressiveness under hypoxic conditions in triple-negative breast cancers. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 975-986.	1.8	29
36	Revealing protein-protein interactions at the transcriptome scale by sequencing. <i>Molecular Cell</i> , 2021, 81, 4091-4103.e9.	4.5	28

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37	Natural display of nuclear-encoded RNA on the cell surface and its impact on cell interaction. <i>Genome Biology</i> , 2020, 21, 225.	3.8	27
38	A Compendium on Peripheral Arterial Disease. <i>Circulation Research</i> , 2015, 116, 1505-1508.	2.0	23
39	T lymphocyte SHP2-deficiency triggers anti-tumor immunity to inhibit colitis-associated cancer in mice. <i>Oncotarget</i> , 2017, 8, 7586-7597.	0.8	23
40	Endothelial mechanobiology. <i>APL Bioengineering</i> , 2020, 4, 010904.	3.3	22
41	Role of endothelial cells in pulmonary fibrosis via SREBP2 activation. <i>JCI Insight</i> , 2021, 6, .	2.3	21
42	miR-379 deletion ameliorates features of diabetic kidney disease by enhancing adaptive mitophagy via FIS1. <i>Communications Biology</i> , 2021, 4, 30.	2.0	20
43	Long Non-Coding RNA Modulation of VEGF-A during Hypoxia. <i>Non-coding RNA</i> , 2018, 4, 34.	1.3	15
44	Differential gene expression and AKT targeting in triple negative breast cancer. <i>Oncotarget</i> , 2019, 10, 4356-4368.	0.8	14
45	Integrative Omics Analyses Reveal Epigenetic Memory in Diabetic Renal Cells Regulating Genes Associated With Kidney Dysfunction. <i>Diabetes</i> , 2020, 69, 2490-2502.	0.3	11
46	RAMP2-AS1 Regulates Endothelial Homeostasis and Aging. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 635307.	1.8	10
47	Rainbow-Seq: Combining Cell Lineage Tracing with Single-Cell RNA Sequencing in Preimplantation Embryos. <i>IScience</i> , 2018, 7, 16-29.	1.9	9
48	Abnormalities of vascular histology and collagen fiber configuration in patients with advanced chronic kidney disease. <i>Journal of Vascular Access</i> , 2019, 20, 31-40.	0.5	9
49	Circulating microRNA changes in patients with impaired glucose regulation. <i>Adipocyte</i> , 2020, 9, 443-453.	1.3	9
50	Tumor Mutation Burden Predicts Relapse in Papillary Thyroid Carcinoma With Changes in Genes and Immune Microenvironment. <i>Frontiers in Endocrinology</i> , 2021, 12, 674616.	1.5	9
51	Genomic profiling of synchronous triple primary tumors of the lung, thyroid and kidney in a young female patient: A case report. <i>Oncology Letters</i> , 2018, 16, 6089-6094.	0.8	8
52	Epigenetic Risk Profile of Diabetic Kidney Disease in High-Risk Populations. <i>Current Diabetes Reports</i> , 2019, 19, 9.	1.7	8
53	Endothelium-gut communication: IGF1Rs crosstalk with microbiota. <i>EMBO Reports</i> , 2021, 22, e52896.	2.0	4
54	Vascular Regulation by Super Enhancer-Derived LINC00607. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	4

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55	Identifying Thyroid Carcinoma-Related Genes by Integrating GWAS and eQTL Data. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 645275.	1.8	3
56	Prediction of Genetic Factors of Hyperthyroidism Based on Gene Interaction Network. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 700355.	1.8	3
57	Heme Oxygenase-1 at the Nexus of Endothelial Cell Fate Decision Under Oxidative Stress. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 702974.	1.8	3
58	What Makes a Great Mentor: Interviews With Recipients of the ATVB Mentor of Women Award. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2641-2647.	1.1	3
59	Isolation and Profiling of Human Primary Mesenteric Arterial Endothelial Cells at the Transcriptome Level. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	3
60	Reply to Verwilt et al.: Experimental evidence against DNA contamination in SILVER-seq. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18937-18938.	3.3	2
61	Shear-Stress Activation of AMP-Activated Protein Kinase in Endothelial Homeostasis. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 538-546.	1.0	1
62	Epigenetic profiling with ultralow DNA amounts. <i>Nature Biomedical Engineering</i> , 2018, 2, 146-147.	11.6	1
63	Reply to Hartl and Gao: Lack of between-batch difference in the distributions of measured extracellular RNA levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1851-1852.	3.3	0
64	“Enhancing” mechanosensing: Enhancers and enhancer-derived long non-coding RNAs in endothelial response to flow. <i>Current Topics in Membranes</i> , 2021, 87, 153-169.	0.5	0
65	Abstract 685: Sterol Regulatory Element-Binding Protein 2-Mediated Endothelial-to-Mesenchymal Transition Contributes to Pulmonary Fibrosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	1.1	0
66	Abstract 250: Endothelial functional Regulation by Enhancer-Associated Long Non-Coding RNAs. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	1.1	0
67	Mitochondrial RNA-Chromatin Interactome Regulates Endothelial-Mesenchymal Transition. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0