

Zhongmin Liu

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

3,562
citations

159585

30
h-index

168389

53
g-index

120
all docs

120
docs citations

120
times ranked

6328
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical role of all-trans retinoic acid in stabilizing human natural regulatory T cells under inflammatory conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3432-40.	7.1	206
2	Senescence in Mesenchymal Stem Cells: Functional Alterations, Molecular Mechanisms, and Rejuvenation Strategies. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 258.	3.7	142
3	MicroRNA-21 prevents excessive inflammation and cardiac dysfunction after myocardial infarction through targeting KBTBD7. <i>Cell Death and Disease</i> , 2018, 9, 769.	6.3	126
4	Gut microbiota-generated metabolite trimethylamine N-oxide and the risk of diabetes: A systematic review and dose-response meta-analysis. <i>Obesity Reviews</i> , 2019, 20, 883-894.	6.5	124
5	Looking into the Future: Toward Advanced 3D Biomaterials for Stem Cell-Based Regenerative Medicine. <i>Advanced Materials</i> , 2018, 30, e1705388.	21.0	120
6	Endothelial Foxp1 Suppresses Atherosclerosis via Modulation of Nlrp3 Inflammasome Activation. <i>Circulation Research</i> , 2019, 125, 590-605.	4.5	109
7	Inflammation negatively regulates FOXP3 and regulatory T-cell function via DBC1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3246-54.	7.1	108
8	CD4 ⁺ T cell subsets in transplantation. <i>Immunological Reviews</i> , 2013, 252, 183-191.	6.0	105
9	Large-scale public venues as medical emergency sites in disasters: lessons from COVID-19 and the use of Fangcang shelter hospitals in Wuhan, China. <i>BMJ Global Health</i> , 2020, 5, e002815.	4.7	95
10	Induced T regulatory cells suppress osteoclastogenesis and bone erosion in collagen-induced arthritis better than natural T regulatory cells. <i>Annals of the Rheumatic Diseases</i> , 2012, 71, 1567-1572.	0.9	92
11	Large Mammalian Animal Models of Heart Disease. <i>Journal of Cardiovascular Development and Disease</i> , 2016, 3, 30.	1.6	92
12	Small mammalian animal models of heart disease. <i>American Journal of Cardiovascular Disease</i> , 2016, 6, 70-80.	0.5	90
13	Cell membrane camouflaged nanoparticles: a new biomimetic platform for cancer photothermal therapy. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 4431-4448.	6.7	86
14	Abdominal obesity is strongly associated with Cardiovascular Disease and its Risk Factors in Elderly and very Elderly Community-dwelling Chinese. <i>Scientific Reports</i> , 2016, 6, 21521.	3.3	85
15	Overexpression of ERBB4 rejuvenates aged mesenchymal stem cells and enhances angiogenesis via PI3K/AKT and MAPK/ERK pathways. <i>FASEB Journal</i> , 2019, 33, 4559-4570.	0.5	84
16	Autophagy induced by DAMPs facilitates the inflammation response in lungs undergoing ischemia-reperfusion injury through promoting TRAF6 ubiquitination. <i>Cell Death and Differentiation</i> , 2017, 24, 683-693.	11.2	81
17	A core-shell structured COVID-19 mRNA vaccine with favorable biodistribution pattern and promising immunity. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 213.	17.1	76
18	Detection of cancer cells based on glycolytic-regulated surface electrical charges. <i>Biophysics Reports</i> , 2019, 5, 10-18.	0.8	71

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19	Rap1 deficiency-provoked paracrine dysfunction impairs immunosuppressive potency of mesenchymal stem cells in allograft rejection of heart transplantation. <i>Cell Death and Disease</i> , 2018, 9, 386.	6.3	68
20	The function of BAFF on T helper cells in autoimmunity. <i>Cytokine and Growth Factor Reviews</i> , 2014, 25, 301-305.	7.2	66
21	Recent advances in mesenchymal stem cell membrane-coated nanoparticles for enhanced drug delivery. <i>Biomaterials Science</i> , 2021, 9, 1088-1103.	5.4	64
22	Myocardial ischemia-reperfusion induced cardiac extracellular vesicles harbour proinflammatory features and aggravate heart injury. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12072.	12.2	62
23	Melanoma Cell Membrane Biomimetic Versatile CuS Nanoprobes for Homologous Targeting Photoacoustic Imaging and Photothermal Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16031-16039.	8.0	58
24	Comprehensive investigations revealed consistent pathophysiological alterations after vaccination with COVID-19 vaccines. <i>Cell Discovery</i> , 2021, 7, 99.	6.7	58
25	Cardio-renal Exosomes in Myocardial Infarction Serum Regulate Proangiogenic Paracrine Signaling in Adipose Mesenchymal Stem Cells. <i>Theranostics</i> , 2020, 10, 1060-1073.	10.0	56
26	The role of the RhoA/Rho kinase pathway in angiogenesis and its potential value in prostate cancer (Review). <i>Oncology Letters</i> , 2014, 8, 1907-1911.	1.8	46
27	β -Arrestin 2 Negatively Regulates Toll-like Receptor 4 (TLR4)-triggered Inflammatory Signaling via Targeting p38 MAPK and Interleukin 10. <i>Journal of Biological Chemistry</i> , 2014, 289, 23075-23085.	3.4	40
28	The Landscape of Tumor Fusion Neoantigens: A Pan-Cancer Analysis. <i>IScience</i> , 2019, 21, 249-260.	4.1	39
29	Remote Control of Mechanical Forces via Mitochondrial-Targeted Magnetic NanospINNers for Efficient Cancer Treatment. <i>Small</i> , 2020, 16, e1905424.	10.0	39
30	Rational targeting of immunosuppressive neutrophils in cancer. , 2020, 212, 107556.		36
31	An evaluation of liraglutide including its efficacy and safety for the treatment of obesity. <i>Expert Opinion on Pharmacotherapy</i> , 2020, 21, 275-285.	1.8	34
32	KDM2B promotes IL-6 production and inflammatory responses through Brg1-mediated chromatin remodeling. <i>Cellular and Molecular Immunology</i> , 2020, 17, 834-842.	10.5	32
33	Epidemiology and Outcomes of Acute Kidney Injury in COVID-19 Patients with Acute Respiratory Distress Syndrome: A Multicenter Retrospective Study. <i>Blood Purification</i> , 2021, 50, 499-505.	1.8	32
34	C-Reactive Protein in Human Atherogenesis: Facts and Fiction. <i>Mediators of Inflammation</i> , 2014, 2014, 1-6.	3.0	31
35	Vascular endothelial S1pr1 ameliorates adverse cardiac remodelling via stimulating reparative macrophage proliferation after myocardial infarction. <i>Cardiovascular Research</i> , 2021, 117, 585-599.	3.8	28
36	Metformin improves cognition of aged mice by promoting cerebral angiogenesis and neurogenesis. <i>Aging</i> , 2020, 12, 17845-17862.	3.1	28

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37	miR-301a-PTEN-AKT Signaling Induces Cardiomyocyte Proliferation and Promotes Cardiac Repair Post-MI. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 22, 251-262.	5.1	26
38	Hepatocellular Senescence: Immunosurveillance and Future Senescence-Induced Therapy in Hepatocellular Carcinoma. <i>Frontiers in Oncology</i> , 2020, 10, 589908.	2.8	26
39	Therapeutic silencing miR-146b-5p improves cardiac remodeling in a porcine model of myocardial infarction by modulating the wound reparative phenotype. <i>Protein and Cell</i> , 2021, 12, 194-212.	11.0	26
40	hESCs-Derived Early Vascular Cell Spheroids for Cardiac Tissue Vascular Engineering and Myocardial Infarction Treatment. <i>Advanced Science</i> , 2022, 9, e2104299.	11.2	26
41	β -Arrestin 2 Promotes Hepatocyte Apoptosis by Inhibiting Akt Protein. <i>Journal of Biological Chemistry</i> , 2016, 291, 605-612.	3.4	25
42	Endothelial S1pr1 regulates pressure overload-induced cardiac remodelling through AKT-eNOS pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 2013-2026.	3.6	24
43	Conditioned medium from induced pluripotent stem cell-derived mesenchymal stem cells accelerates cutaneous wound healing through enhanced angiogenesis. <i>Stem Cell Research and Therapy</i> , 2021, 12, 295.	5.5	24
44	Time Course of Cell Sheet Adhesion to Porcine Heart Tissue after Transplantation. <i>PLoS ONE</i> , 2015, 10, e0137494.	2.5	22
45	Rho-Associated Kinase Inhibitor (Y-27632) Attenuates Doxorubicin-Induced Apoptosis of Human Cardiac Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0144513.	2.5	22
46	Suspended graphene oxide nanosheets maintain the self-renewal of mouse embryonic stem cells via down-regulating the expression of Vinculin. <i>Biomaterials</i> , 2018, 171, 1-11.	11.4	22
47	Layered double hydroxide eliminate embryotoxicity of chemotherapeutic drug through BMP-SMAD signaling pathway. <i>Biomaterials</i> , 2020, 230, 119602.	11.4	22
48	Abnormal global alternative RNA splicing in COVID-19 patients. <i>PLoS Genetics</i> , 2022, 18, e1010137.	3.5	21
49	Cell-Specific Effects of GATA (GATA Zinc Finger Transcription Factor Family)-6 in Vascular Smooth Muscle and Endothelial Cells on Vascular Injury Neointimal Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 888-901.	2.4	19
50	Dual-targeted and MRI-guided photothermal therapy via iron-based nanoparticles-incorporated neutrophils. <i>Biomaterials Science</i> , 2021, 9, 3968-3978.	5.4	19
51	Merit of Ginseng in the Treatment of Heart Failure in Type 1-Like Diabetic Rats. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	18
52	Fe ₃ O ₄ @M nanoparticles for MRI-targeted detection in the early lesions of atherosclerosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 33, 102348.	3.3	18
53	AHNAK2 Promotes Migration, Invasion, and Epithelial-Mesenchymal Transition in Lung Adenocarcinoma Cells via the TGF- β /Smad3 Pathway. <i>OncoTargets and Therapy</i> , 2020, Volume 13, 12893-12903.	2.0	18
54	Myoblast Therapy: From Bench to Bedside. <i>Cell Transplantation</i> , 2006, 15, 455-462.	2.5	17

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55	Uncontrolled Hypertension Increases with Age in an Older Community-Dwelling Chinese Population in Shanghai. , 2017, 8, 558.		17
56	Evaluating the efficacy and safety of atorvastatin + ezetimibe in a fixed-dose combination for the treatment of hypercholesterolemia. Expert Opinion on Pharmacotherapy, 2019, 20, 917-928.	1.8	17
57	Endothelial Klf2-Foxp1-TGF β 2 signal mediates the inhibitory effects of simvastatin on maladaptive cardiac remodeling. Theranostics, 2021, 11, 1609-1625.	10.0	17
58	Fasudil preserves lung endothelial function and reduces pulmonary vascular remodeling in a rat model of end-stage pulmonary hypertension with left heart disease. International Journal of Molecular Medicine, 2018, 42, 1341-1352.	4.0	16
59	Distinct Circulating Expression Profiles of Long Noncoding RNAs in Heart Failure Patients With Ischemic and Nonischemic Dilated Cardiomyopathy. Frontiers in Genetics, 2019, 10, 1116.	2.3	15
60	Elevated Expression of miR302-367 in Endothelial Cells Inhibits Developmental Angiogenesis via CDC42/CCND1 Mediated Signaling Pathways. Theranostics, 2018, 8, 1511-1526.	10.0	14
61	Epidemiological features and medical care-seeking process of patients with COVID-19 in Wuhan, China. ERJ Open Research, 2020, 6, 00142-2020.	2.6	14
62	Phosphatase PPM1L Prevents Excessive Inflammatory Responses and Cardiac Dysfunction after Myocardial Infarction by Inhibiting IKK β Activation. Journal of Immunology, 2019, 203, 1338-1347.	0.8	13
63	Dynamic Profile of CD4 ⁺ T-Cell-Associated Cytokines/Chemokines following Murine Myocardial Infarction/Reperfusion. Mediators of Inflammation, 2019, 2019, 1-19.	3.0	13
64	The Value of Blood Urea Nitrogen in the Prediction of Risks of Cardiovascular Disease in an Older Population. Frontiers in Cardiovascular Medicine, 2021, 8, 614117.	2.4	13
65	Human gingiva tissue-derived MSC ameliorates immune-mediated bone marrow failure of aplastic anemia suppression of Th1 and Th17 cells and enhancement of CD4 ⁺ Foxp3 ⁺ regulatory T cells differentiation. American Journal of Translational Research (discontinued), 2019, 11, 7627-7643.	0.0	13
66	CD4 ⁺ FoxP3 ⁺ CD73 ⁺ regulatory T cell promotes cardiac healing post-myocardial infarction. Theranostics, 2022, 12, 2707-2721.	10.0	13
67	Superior angiogenesis facilitates digit regrowth in MRL/Mpj mice compared to C57BL/6 mice. Biochemical and Biophysical Research Communications, 2016, 473, 907-912.	2.1	12
68	Keratose Hydrogels Promote Vascular Smooth Muscle Differentiation from C-kit-Positive Human Cardiac Stem Cells. Stem Cells and Development, 2017, 26, 888-900.	2.1	12
69	IL-25 regulates the polarization of macrophages and attenuates obliterative bronchiolitis in murine trachea transplantation models. International Immunopharmacology, 2015, 25, 383-392.	3.8	11
70	High RhoA expression at the tumor front in clinically localized prostate cancer and association with poor tumor differentiation. Oncology Letters, 2016, 11, 1375-1381.	1.8	11
71	Identification of a SARS-CoV-2 virus-encoded small non-coding RNA in association with the neurological disorders in COVID-19 patients. Signal Transduction and Targeted Therapy, 2022, 7, 107.	17.1	11
72	Development of Endothelial-Specific Single Inducible Lentiviral Vectors for Genetic Engineering of Endothelial Progenitor Cells. Scientific Reports, 2015, 5, 17166.	3.3	10

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73	Integrated Multiomic Analysis Reveals the High-Fat Diet Induced Activation of the MAPK Signaling and Inflammation Associated Metabolic Cascades via Histone Modification in Adipose Tissues. <i>Frontiers in Genetics</i> , 2021, 12, 650863.	2.3	10
74	CKAP4 Antibody-Conjugated Si Quantum Dot Micelles for Targeted Imaging of Lung Cancer. <i>Nanoscale Research Letters</i> , 2021, 16, 124.	5.7	10
75	Myoblast transplantation improves cardiac function after myocardial infarction through attenuating inflammatory responses. <i>Oncotarget</i> , 2017, 8, 68780-68794.	1.8	10
76	A Novel Metabolic Reprogramming Strategy for the Treatment of Diabetes-Associated Breast Cancer. <i>Advanced Science</i> , 2022, 9, e2102303.	11.2	10
77	Fasudil inhibits prostate cancer-induced angiogenesis in vitro. <i>Oncology Reports</i> , 2014, 32, 2795-2802.	2.6	9
78	Impacts of femoral artery and vein excision versus femoral artery excision on the hindlimb ischemic model in CD-1 mice. <i>Microvascular Research</i> , 2017, 110, 48-55.	2.5	9
79	NGF nanoparticles enhance the potency of transplanted human umbilical cord mesenchymal stem cells for myocardial repair. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1959-H1974.	3.2	9
80	SiRNA-circFARSA-loaded porous silicon nanomaterials for pancreatic cancer treatment via inhibition of CircFARSA expression. <i>Biomedicine and Pharmacotherapy</i> , 2022, 147, 112672.	5.6	9
81	Lentivirus-mediated knockdown of rhomboid domain containing 1 inhibits colorectal cancer cell growth. <i>Molecular Medicine Reports</i> , 2015, 12, 377-381.	2.4	8
82	Single-cell transcriptomics of cardiac progenitors reveals functional subpopulations and their cooperative crosstalk in cardiac repair. <i>Protein and Cell</i> , 2021, 12, 152-157.	11.0	8
83	iDMer: an integrative and mechanism-driven response system for identifying compound interventions for sudden virus outbreak. <i>Briefings in Bioinformatics</i> , 2021, 22, 976-987.	6.5	8
84	A concise review of common animal models for the study of limb regeneration. <i>Organogenesis</i> , 2016, 12, 109-118.	1.2	7
85	Association Between Renal Dysfunction and Low HDL Cholesterol Among the Elderly in China. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 644208.	2.4	7
86	Disruption of GMNC-MCIDAS multiciliogenesis program is critical in choroid plexus carcinoma development. <i>Cell Death and Differentiation</i> , 2022, 29, 1596-1610.	11.2	7
87	Higher prevalence of elevated LDL-C than non-HDL-C and low statin treatment rate in elderly community-dwelling Chinese with high cardiovascular risk. <i>Scientific Reports</i> , 2016, 6, 34268.	3.3	6
88	Advances in Development of mRNA-Based Therapeutics. <i>Current Topics in Microbiology and Immunology</i> , 2020, , 1.	1.1	6
89	A novel small molecule compound VCP979 improves ventricular remodeling in murine models of myocardial ischemia/reperfusion injury. <i>International Journal of Molecular Medicine</i> , 2020, 45, 353-364.	4.0	6
90	Experimental Studies on the Differentiation of Fibroblasts into Myoblasts induced by MyoD Genes in vitro. <i>International Journal of Biomedical Science</i> , 2008, 4, 14-9.	0.1	6

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91	Perivascular Fibrosis Is Mediated by a KLF10-IL-9 Signaling Axis in CD4+ T Cells. <i>Circulation Research</i> , 2022, 130, 1662-1681.	4.5	6
92	Fourth Ventricular Meningiomas. <i>World Neurosurgery</i> , 2019, 127, e1201-e1209.	1.3	5
93	Effect of omega-3 polyunsaturated fatty acids on left ventricular remodeling in chronic heart failure: a systematic review and meta-analysis. <i>British Journal of Nutrition</i> , 2022, , 1-35.	2.3	5
94	Generation of a human control PBMC derived iPS cell line TUSMi001-A from a healthy male donor of Han Chinese genetic background. <i>Stem Cell Research</i> , 2017, 25, 22-25.	0.7	4
95	AFC1 Compound Attenuated MI/R-Induced Ventricular Remodeling via Inhibiting PDGFR and STAT Pathway. <i>Frontiers in Pharmacology</i> , 2019, 10, 1142.	3.5	4
96	Cell Type-Specific Differentiation Between Indica and Japonica Rice Root Tip Responses to Different Environments Based on Single-Cell RNA Sequencing. <i>Frontiers in Genetics</i> , 2021, 12, 659500.	2.3	4
97	Anti-androgen therapy induces transcriptomic reprogramming in metastatic castration-resistant prostate cancer in a murine model. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166151.	3.8	4
98	A Three-Dimensional Imaging Method for the Quantification and Localization of Dynamic Cell Tracking Posttransplantation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 698795.	3.7	4
99	Association of Periaortic Fat and Abdominal Visceral Fat with Coronary Artery Atherosclerosis in Chinese Middle Aged and Elderly Patients Undergoing Computed Tomography Coronary Angiography. <i>Global Heart</i> , 2021, 16, 74.	2.3	4
100	Hyperhomocysteinemia Increases Risk of Metabolic Syndrome and Cardiovascular Death in an Elderly Chinese Community Population of a 7-Year Follow-Up Study. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 811670.	2.4	4
101	Direct administration of mesenchymal stem cell-derived mitochondria improves cardiac function after infarction via ameliorating endothelial senescence. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	4
102	Predictive Value of Uric Acid Regarding Cardiometabolic Disease in a Community-Dwelling Older Population in Shanghai: A Cohort Study. <i>Frontiers in Medicine</i> , 2020, 7, 24.	2.6	3
103	A Stronger Association of Epicardial Fat Volume with Non-Valvular Atrial Fibrillation Than Measures of General Obesity in Chinese Patients Undergoing Computed Tomography Coronary Angiography. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2021, Volume 14, 1223-1232.	2.4	3
104	A MicroRNA-Based Network Provides Potential Predictive Signatures and Reveals the Crucial Role of PI3K/AKT Signaling for Hepatic Lineage Maturation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 670059.	3.7	3
105	Merit of Anisodamine Combined with Opioid<math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi>Î</mml:mi></mml:mrow></mml:math>-Receptor Activation in the Protection against Myocardial Injury during Cardiopulmonary Bypass. <i>BioMed Research International</i> , 2019, 2019, 1-9.	1.9	2
106	The screening value of baPWV and hs-crp to ASCVD in middle and elderly community population in Shanghai. <i>International Journal of Cardiology</i> , 2015, 186, 289-290.	1.7	2
107	Chloroquine exacerbates serum withdrawal-induced G₁ phase arrest via an autophagy-independent mechanism. <i>RSC Advances</i> , 2017, 7, 46082-46091.	3.6	2
108	Cell Therapy and 3D Regenerative Tissue to Remodel Heart Failure. <i>Nano LIFE</i> , 2019, 09, 1941001.	0.9	2

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109	Safety and efficacy of human umbilical cord mesenchymal stem cells for the treatment of sepsis induced by pneumonia: study protocol for a single-centre, randomised single-blind parallel group trial. <i>BMJ Open</i> , 2022, 12, e058444.	1.9	2
110	Special Issue on Advanced Diagnosis and Therapy for Major Diseases and Injuries. <i>Nano LIFE</i> , 2020, 10, 2002001.	0.9	1
111	A novel GATA4 mutation responsible for congenital ventricular septal defects. <i>Heart</i> , 2011, 97, A203-A204.	2.9	0
112	Association between risk factors and left ventricular remodelling in middle-aged and geriatric population: a community-based study. <i>Heart</i> , 2011, 97, A100-A101.	2.9	0
113	Extracorporeal Membrane Oxygenation for COVID-19: Case Report of Nine Patients. <i>Frontiers in Medicine</i> , 2021, 8, 697338.	2.6	0