

Ling Zhu

List of Publications by Year in descending order

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103
papers

3,661
citations

126907

33
h-index

155660

55
g-index

104
all docs

104
docs citations

104
times ranked

5048
citing authors

#	ARTICLE	IF	CITATIONS
1	Conditional Müller Cell Ablation Causes Independent Neuronal and Vascular Pathologies in a Novel Transgenic Model. <i>Journal of Neuroscience</i> , 2012, 32, 15715-15727.	3.6	207
2	A single-cell transcriptome atlas of the adult human retina. <i>EMBO Journal</i> , 2019, 38, e100811.	7.8	185
3	Uncovering an Organism's Molecular Architecture at Single-Cell Resolution by Spatially Resolved Transcriptomics. <i>Trends in Biotechnology</i> , 2021, 39, 43-58.	9.3	145
4	Bacterial toxin YafQ is an endoribonuclease that associates with the ribosome and blocks translation elongation through sequence-specific and frame-dependent mRNA cleavage. <i>Molecular Microbiology</i> , 2009, 71, 1071-1087.	2.5	142
5	Characterization of mRNA Interferases from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 18638-18643.	3.4	124
6	Interference of mRNA Function by Sequence-specific Endoribonuclease PemK. <i>Journal of Biological Chemistry</i> , 2004, 279, 20678-20684.	3.4	117
7	The role of glia in retinal vascular disease. <i>Australasian journal of optometry</i> , The, 2012, 95, 266-281.	1.3	107
8	Characterization of ChpBK, an mRNA Interferase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 26080-26088.	3.4	103
9	<i>Staphylococcus aureus</i> MazF Specifically Cleaves a Pentad Sequence, UACAU, Which Is Unusually Abundant in the mRNA for Pathogenic Adhesive Factor SraP. <i>Journal of Bacteriology</i> , 2009, 191, 3248-3255.	2.2	96
10	The mRNA interferases, MazF ₃ and MazF ₇ from <i>Mycobacterium tuberculosis</i> target unique pentad sequences in single-stranded RNA. <i>Molecular Microbiology</i> , 2008, 69, 559-569.	2.5	95
11	Protective Effect of Paeoniflorin on H ₂ O ₂ -Induced SH-SY5Y Cell Injury by Preventing Mitochondrial Dysfunction. <i>Cellular and Molecular Neurobiology</i> , 2014, 34, 227-234.	3.3	90
12	miR-210 transferred by lung cancer cell-derived exosomes may act as proangiogenic factor in cancer-associated fibroblasts by modulating JAK2/STAT3 pathway. <i>Clinical Science</i> , 2020, 134, 807-825.	4.3	90
13	Noncognate <i>Mycobacterium tuberculosis</i> Toxin-Antitoxins Can Physically and Functionally Interact. <i>Journal of Biological Chemistry</i> , 2010, 285, 39732-39738.	3.4	82
14	Tyrosine phosphorylation of VE-cadherin and claudin-5 is associated with TGF- β 1-induced permeability of centrally derived vascular endothelium. <i>European Journal of Cell Biology</i> , 2011, 90, 323-332.	3.6	82
15	Investigation of Gallic Acid Induced Anticancer Effect in Human Breast Carcinoma MCF7 Cells. <i>Journal of Biochemical and Molecular Toxicology</i> , 2014, 28, 387-393.	3.0	81
16	The evolving role of neuro-immune interaction in brain repair after cerebral ischemic stroke. <i>CNS Neuroscience and Therapeutics</i> , 2018, 24, 1100-1114.	3.9	81
17	Differing Structural and Functional Patterns of Optic Nerve Damage in Multiple Sclerosis and Neuromyelitis Optica Spectrum Disorder. <i>Ophthalmology</i> , 2019, 126, 445-453.	5.2	69
18	Ziyuglycoside II induces cell cycle arrest and apoptosis through activation of ROS/JNK pathway in human breast cancer cells. <i>Toxicology Letters</i> , 2014, 227, 65-73.	0.8	62

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19	Chloroquine and Hydroxychloroquine Are Novel Inhibitors of Human Organic Anion Transporting Polypeptide 1A2. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 884-890.	3.3	61
20	Recent advance in the pharmacogenomics of human Solute Carrier Transporters (SLCs) in drug disposition. <i>Advanced Drug Delivery Reviews</i> , 2017, 116, 21-36.	13.7	61
21	Puerarin inhibits amyloid β -induced NLRP3 inflammasome activation in retinal pigment epithelial cells via suppressing ROS-dependent oxidative and endoplasmic reticulum stresses. <i>Experimental Cell Research</i> , 2017, 357, 335-340.	2.6	56
22	Evidence of Müller Glial Dysfunction in Patients with Aquaporin-4 Immunoglobulin Gâ€“Positive Neuromyelitis Optica Spectrum Disorder. <i>Ophthalmology</i> , 2019, 126, 801-810.	5.2	54
23	Amyloid β induces NLRP3 inflammasome activation in retinal pigment epithelial cells via NADPH oxidaseâ€• and mitochondriaâ€•dependent ROS production. <i>Journal of Biochemical and Molecular Toxicology</i> , 2017, 31, e21887.	3.0	53
24	Human oligopeptide transporter 2 (PEPT2) mediates cellular uptake of polymyxins. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 403-412.	3.0	52
25	Disruption of De Novo Serine Synthesis in Müller Cells Induced Mitochondrial Dysfunction and Aggravated Oxidative Damage. <i>Molecular Neurobiology</i> , 2018, 55, 7025-7037.	4.0	49
26	Protein kinase C regulates the internalization and function of the human organic anion transporting polypeptide 1A2. <i>British Journal of Pharmacology</i> , 2011, 162, 1380-1388.	5.4	41
27	Functional Analysis of Novel Polymorphisms in the Human SLCO1A2 Gene that Encodes the Transporter OATP1A2. <i>AAPS Journal</i> , 2013, 15, 1099-1108.	4.4	41
28	Human macular Müller cells rely more on serine biosynthesis to combat oxidative stress than those from the periphery. <i>ELife</i> , 2019, 8, .	6.0	38
29	Paeoniflorin attenuates aRAL-induced oxidative stress, mitochondrial dysfunction and endoplasmic reticulum stress in retinal pigment epithelial cells via triggering Ca ²⁺ /CaMKII-dependent activation of AMPK. <i>Archives of Pharmacal Research</i> , 2018, 41, 1009-1018.	6.3	37
30	Metabolic Features of Mouse and Human Retinas: Rods versus Cones, Macula versus Periphery, Retina versus RPE. <i>IScience</i> , 2020, 23, 101672.	4.1	37
31	The Inhibitory Effects of the Bioactive Components Isolated from <i>Scutellaria Baicalensis</i> on the Cellular Uptake Mediated by the Essential Solute Carrier Transporters. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 4205-4211.	3.3	35
32	Involvement of NT3 and P75NTR in photoreceptor degeneration following selective Müller cell ablation. <i>Journal of Neuroinflammation</i> , 2013, 10, 137.	7.2	35
33	Ultrasensitive detection of microRNA with isothermal amplification and a time-resolved fluorescence sensor. <i>Biosensors and Bioelectronics</i> , 2014, 57, 91-95.	10.1	35
34	<p>&circGFR1 Enhances NSCLC Progression by Sponging miR-188-3p</p>. <i>OncoTargets and Therapy</i> , 2020, Volume 13, 549-558.	2.0	35
35	Functional characterization of nonsynonymous single nucleotide polymorphisms in the human organic anion transporter 4 (hOAT4). <i>British Journal of Pharmacology</i> , 2010, 159, 419-427.	5.4	34
36	The FoxM1-ABCC4 axis mediates carboplatin resistance in human retinoblastoma Y-79 cells. <i>Acta Biochimica Et Biophysica Sinica</i> , 2018, 50, 914-920.	2.0	34

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37	Effect of glucocorticoids on neuronal and vascular pathology in a transgenic model of selective M β 4lller cell ablation. <i>Glia</i> , 2014, 62, 1110-1124.	4.9	32
38	Galectin-1 knockdown in carcinoma-associated fibroblasts inhibits migration and invasion of human MDA-MB-231 breast cancer cells by modulating MMP-9 expression. <i>Acta Biochimica Et Biophysica Sinica</i> , 2016, 48, 462-467.	2.0	32
39	Profiling of MicroRNAs Involved in Retinal Degeneration Caused by Selective M β 4lller Cell Ablation. <i>PLoS ONE</i> , 2015, 10, e0118949.	2.5	31
40	Human organic anion transporting polypeptide 1<sc>A</sc>2 (<sc>OATP1A2</sc>) mediates cellular uptake of all-trans-retinol in human retinal pigmented epithelial cells. <i>British Journal of Pharmacology</i> , 2015, 172, 2343-2353.	5.4	30
41	Oxygen Vacancy Defect-Induced Activity Enhancement of Gd Doping Magnetic Nanocluster for Oxygen Supplying Cancer Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36917-36927.	8.0	29
42	Tetramethylpyrazine Protects Retinal Capillary Endothelial Cells (TR-iBRB2) against IL-1 β -Induced Nitritative/Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2015, 16, 21775-21790.	4.1	26
43	FoxM1 inhibition enhances chemosensitivity of docetaxel-resistant A549 cells to docetaxel via activation of JNK/mitochondrial pathway. <i>Acta Biochimica Et Biophysica Sinica</i> , 2016, 48, 804-809.	2.0	26
44	Interactions of the active components of Punica granatum (pomegranate) with the essential renal and hepatic human Solute Carrier transporters. <i>Pharmaceutical Biology</i> , 2014, 52, 1510-1517.	2.9	25
45	Puerarin Protects Human Neuroblastoma SH-SY5Y Cells against Glutamate-Induced Oxidative Stress and Mitochondrial Dysfunction. <i>Journal of Biochemical and Molecular Toxicology</i> , 2016, 30, 22-28.	3.0	25
46	The effect of puerarin against IL-1 β -mediated leukostasis and apoptosis in retinal capillary endothelial cells (TR-iBRB2). <i>Molecular Vision</i> , 2014, 20, 1815-23.	1.1	25
47	Induction of oxidative and nitrosative stresses in human retinal pigment epithelial cells by all-trans-retinal. <i>Experimental Cell Research</i> , 2016, 348, 87-94.	2.6	24
48	PDZK1 and NHERF1 Regulate the Function of Human Organic Anion Transporting Polypeptide 1A2 (OATP1A2) by Modulating Its Subcellular Trafficking and Stability. <i>PLoS ONE</i> , 2014, 9, e94712.	2.5	24
49	Pilot Application of iTRAQ to the Retinal Disease Macular Telangiectasia. <i>Journal of Proteome Research</i> , 2012, 11, 537-553.	3.7	22
50	The involvement of human organic anion transporting polypeptides (OATPs) in drug-herb/food interactions. <i>Chinese Medicine</i> , 2020, 15, 71.	4.0	21
51	Putative Transmembrane Domain 6 of the Human Organic Anion Transporting Polypeptide 1A2 (OATP1A2) Influences Transporter Substrate Binding, Protein Trafficking, and Quality Control. <i>Molecular Pharmaceutics</i> , 2015, 12, 111-119.	4.6	20
52	Neuroprotective Effect of Puerarin on Glutamate-Induced Cytotoxicity in Differentiated Y-79 Cells via Inhibition of ROS Generation and Ca ²⁺ Influx. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1109.	4.1	20
53	A derivative of betulinic acid protects human Retinal Pigment Epithelial (RPE) cells from cobalt chloride-induced acute hypoxic stress. <i>Experimental Eye Research</i> , 2019, 180, 92-101.	2.6	20
54	Procyanidin B2 and rutin in Ginkgo biloba extracts protect human retinal pigment epithelial (RPE) cells from oxidative stress by modulating Nrf2 and Erk1/2 signalling. <i>Experimental Eye Research</i> , 2021, 207, 108586.	2.6	20

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55	Efficient Magnetic Nanocatalyst-Induced Chemo- and Ferroptosis Synergistic Cancer Therapy in Combination with T ₁ -weighted Dual-Mode Magnetic Resonance Imaging Through Doxorubicin Delivery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3621-3632.	8.0	20
56	Anti-Retinal Antibodies in Patients With Macular Telangiectasia Type 2. , 2013, 54, 5675.		19
57	Interaction of the Bioactive Flavonol, Icariin, with the Essential Human Solute Carrier Transporters. <i>Journal of Biochemical and Molecular Toxicology</i> , 2014, 28, 91-97.	3.0	19
58	Ciliary neurotrophic factor protects SH-SY5Y neuroblastoma cells against A β ¹⁻⁴² -induced neurotoxicity via activating the JAK2/STAT3 axis. <i>Folia Neuropathologica</i> , 2015, 3, 226-235.	1.2	19
59	Differential gene expression in Lin ⁻ /VEGF-R2 ⁺ bone marrow-derived endothelial progenitor cells isolated from diabetic mice. <i>Cardiovascular Diabetology</i> , 2014, 13, 42.	6.8	16
60	Polyphyllin I Induces Cell Cycle Arrest and Cell Apoptosis in Human Retinoblastoma Y-79 Cells through Targeting p53. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 18, 875-881.	1.7	16
61	Dynamic contrast-enhanced MR in the diagnosis of lympho-associated benign and malignant lesions in the parotid gland. <i>Dentomaxillofacial Radiology</i> , 2016, 45, 20150343.	2.7	15
62	Interphotoreceptor Retinoid-Binding Protein (IRBP) in Retinal Health and Disease. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 577935.	3.7	15
63	Assessing the magnetic resonance imaging in determining the depth of invasion of tongue cancer. <i>Oral Diseases</i> , 2021, 27, 457-463.	3.0	15
64	Corosolic acid induces cell cycle arrest and cell apoptosis in human retinoblastoma Y-79 cells via disruption of MELK-FoxM1 signaling. <i>Oncology Reports</i> , 2018, 39, 2777-2786.	2.6	14
65	The Altered Renal and Hepatic Expression of Solute Carrier Transporters (SLCs) in Type 1 Diabetic Mice. <i>PLoS ONE</i> , 2015, 10, e0120760.	2.5	13
66	Effect of selectively knocking down key metabolic genes in Müller glia on photoreceptor health. <i>Glia</i> , 2021, 69, 1966-1986.	4.9	13
67	The inhibitory effects of camptothecin (CPT) and its derivatives on the substrate uptakes mediated by human solute carrier transporters (SLCs). <i>Xenobiotica</i> , 2016, 46, 831-840.	1.1	12
68	Neuroprotective effect of tetramethylpyrazine against all-trans-retinal toxicity in the differentiated Y-79 cells via upregulation of IRBP expression. <i>Experimental Cell Research</i> , 2017, 359, 120-128.	2.6	12
69	Radiological and clinical features of peripheral keratocystic odontogenic tumor. <i>International Journal of Clinical and Experimental Medicine</i> , 2014, 7, 300-6.	1.3	12
70	A Combination Therapy Targeting Endoglin and VEGF-A Prevents Subretinal Fibro-Neovascularization Caused by Induced Müller Cell Disruption. , 2018, 59, 6075.		11
71	Betulinic acid derivatives can protect human Müller cells from glutamate-induced oxidative stress. <i>Experimental Cell Research</i> , 2019, 383, 111509.	2.6	11
72	Dysregulation of interphotoreceptor retinoid-binding protein (IRBP) after induced Müller cell disruption. <i>Journal of Neurochemistry</i> , 2015, 133, 909-918.	3.9	10

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73	Differential Expression of IL-6/gp130 Cytokines, Jak-STAT Signaling and Neuroprotection After M β 1/4ller Cell Ablation in a Transgenic Mouse Model. , 2015, 56, 2151.		10
74	Casein Kinase 2 Is a Novel Regulator of the Human Organic Anion Transporting Polypeptide 1A2 (OATP1A2) Trafficking. Molecular Pharmaceutics, 2016, 13, 144-154.	4.6	10
75	The inhibitory effects of eighteen front-line antibiotics on the substrate uptake mediated by human Organic anion/cation transporters, Organic anion transporting polypeptides and Oligopeptide transporters in in vitro models. European Journal of Pharmaceutical Sciences, 2018, 115, 132-143.	4.0	10
76	Triggering p53 activation is essential in ziyuglycoside lâ€induced human retinoblastoma WERlâ€Rbâ€1 cell apoptosis. Journal of Biochemical and Molecular Toxicology, 2018, 32, e22001.	3.0	10
77	Simvastatin protects photoreceptors from oxidative stress induced by allâ€trans â€retinal, through the upâ€regulation of interphotoreceptor retinoid binding protein. British Journal of Pharmacology, 2019, 176, 2063-2078.	5.4	10
78	G proteinâ€coupled estrogen receptor in the rostral ventromedial medulla contributes to the chronification of postoperative pain. CNS Neuroscience and Therapeutics, 2021, 27, 1313-1326.	3.9	10
79	Transketolase in human M β 1/4ller cells is critical to resist light stress through the pentose phosphate and NRF2 pathways. Redox Biology, 2022, 54, 102379.	9.0	10
80	Gas1 Knockdown Increases the Neuroprotective Effect of Glial Cell-Derived Neurotrophic Factor Against Glutamate-Induced Cell Injury in Human SH-SY5Y Neuroblastoma Cells. Cellular and Molecular Neurobiology, 2016, 36, 603-611.	3.3	9
81	Characterization of canonical Wnt signalling changes after induced disruption of M β 1/4ller cell in murine retina. Experimental Eye Research, 2018, 175, 173-180.	2.6	9
82	Compritol solid lipid nanoparticle formulations enhance the protective effect of betulinic acid derivatives in human M β 1/4ller cells against oxidative injury. Experimental Eye Research, 2022, 215, 108906.	2.6	9
83	Metabolism Dysregulation in Retinal Diseases and Related Therapies. Antioxidants, 2022, 11, 942.	5.1	9
84	Applications of Nucleic Acid Chaperone Activity of CspA and Its Homologues. Journal of Molecular Microbiology and Biotechnology, 2009, 17, 110-117.	1.0	8
85	Original article Neuroprotective properties of ciliary neurotrophic factor on retinoic acid (RA)-predifferentiated SH-SY5Y neuroblastoma cells. Folia Neuropathologica, 2014, 2, 121-127.	1.2	8
86	Effects of Ranibizumab and Aflibercept on Human M β 1/4ller Cells and Photoreceptors under Stress Conditions. International Journal of Molecular Sciences, 2017, 18, 533.	4.1	8
87	The Potential Application of Pentacyclic Triterpenoids in the Prevention and Treatment of Retinal Diseases. Planta Medica, 2021, 87, 511-527.	1.3	8
88	The 5â€AMP-Activated Protein Kinase Regulates the Function and Expression of Human Organic Anion Transporting Polypeptide 1A2. Molecular Pharmacology, 2018, 94, 1412-1420.	2.3	7
89	Evaluation of the dental spectral cone beam CT for metal artefact reduction. Dentomaxillofacial Radiology, 2019, 48, 20180044.	2.7	6
90	ZNF655 is involved in development and progression of non-small-cell lung cancer. Life Sciences, 2021, 280, 119727.	4.3	6

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91	Isolation and characterization of mouse bone marrow-derived Lin ^{hi} /VEGF-R2+ progenitor cells. <i>Annals of Hematology</i> , 2013, 92, 1461-1472.	1.8	5
92	The Role of N-Glycosylation in Maintaining the Transporter Activity and Expression of Human Oligopeptide Transporter 1. <i>Molecular Pharmaceutics</i> , 2016, 13, 3449-3456.	4.6	5
93	The inhibitory effects of five alkaloids on the substrate transport mediated through human organic anion and cation transporters. <i>Xenobiotica</i> , 2018, 48, 197-205.	1.1	5
94	Impaired Transport Activity of Human Organic Anion Transporters (OATs) and Organic Anion Transporting Polypeptides (OATPs) by Wnt Inhibitors. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 914-924.	3.3	5
95	High level soluble expression, purification, and characterization of human ciliary neurotrophic factor in <i>Escherichia coli</i> by single protein production system. <i>Protein Expression and Purification</i> , 2014, 96, 8-13.	1.3	4
96	Platelet-derived growth factor-BB attenuates titanium-particle-induced osteolysis <i>in vivo</i> . <i>Growth Factors</i> , 2016, 34, 177-186.	1.7	4
97	FoxM1 affects adhesive, migratory, and invasive abilities of human retinoblastoma Y-79 cells by targeting matrix metalloproteinase 2. <i>Acta Biochimica Et Biophysica Sinica</i> , 2020, 52, 294-301.	2.0	4
98	Isolation, Culture, and Identification of Primary Müller Cells from Human Retina. <i>Bio-protocol</i> , 2021, 11, e4179.	0.4	4
99	Ginkgo biloba extract protects human neuroblastoma SH-SY5Y cells against oxidative glutamate toxicity by activating redoxosome-p66Shc. <i>Experimental and Therapeutic Medicine</i> , 2021, 22, 951.	1.8	3
100	An In Vitro Model of Diabetic Retinal Vascular Endothelial Dysfunction and Neuroretinal Degeneration. <i>Journal of Diabetes Research</i> , 2021, 2021, 1-12.	2.3	3
101	Magnet guidance reduces misplacement of subclavian vein catheter in internal jugular vein. <i>Intensive Care Medicine</i> , 2017, 43, 711-712.	8.2	1
102	The multi-kinase inhibitor afatinib serves as a novel candidate for the treatment of human uveal melanoma. <i>Cellular Oncology (Dordrecht)</i> , 2022, 45, 601-619.	4.4	1
103	A multidisciplinary collaborative model based on single-port thoracoscopy for the treatment of giant mediastinal lymph node hyperplasia: a case report. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110627.	1.0	0