

Yutao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

6,394
citations

81900

39
h-index

79698

73
g-index

104
all docs

104
docs citations

104
times ranked

8774
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Study of Serum Exosome Isolation Using Differential Ultracentrifugation and Three Commercial Reagents. <i>PLoS ONE</i> , 2017, 12, e0170628.	2.5	452
2	Exosomes/microvesicles from induced pluripotent stem cells deliver cardioprotective miRNAs and prevent cardiomyocyte apoptosis in the ischemic myocardium. <i>International Journal of Cardiology</i> , 2015, 192, 61-69.	1.7	350
3	Common Variants at 9p21 and 8q22 Are Associated with Increased Susceptibility to Optic Nerve Degeneration in Glaucoma. <i>PLoS Genetics</i> , 2012, 8, e1002654.	3.5	276
4	The Genetic and Environmental Factors for Keratoconus. <i>BioMed Research International</i> , 2015, 2015, 1-19.	1.9	268
5	Consensus recommendations for trabecular meshwork cell isolation, characterization and culture. <i>Experimental Eye Research</i> , 2018, 171, 164-173.	2.6	221
6	The genetics of primary open-angle glaucoma: A review. <i>Experimental Eye Research</i> , 2009, 88, 837-844.	2.6	219
7	Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as susceptibility loci for primary open-angle glaucoma. <i>Nature Genetics</i> , 2016, 48, 189-194.	21.4	211
8	Extracellular vesicles in the pathogenesis of rheumatoid arthritis and osteoarthritis. <i>Arthritis Research and Therapy</i> , 2016, 18, 286.	3.5	210
9	MicroRNA-183-5p Increases with Age in Bone-Derived Extracellular Vesicles, Suppresses Bone Marrow Stromal (Stem) Cell Proliferation, and Induces Stem Cell Senescence. <i>Tissue Engineering - Part A</i> , 2017, 23, 1231-1240.	3.1	182
10	Neutral Sphingomyelinase-2 Deficiency Ameliorates Alzheimer's Disease Pathology and Improves Cognition in the 5XFAD Mouse. <i>Journal of Neuroscience</i> , 2016, 36, 8653-8667.	3.6	177
11	Gender-specific differential expression of exosomal miRNA in synovial fluid of patients with osteoarthritis. <i>Scientific Reports</i> , 2017, 7, 2029.	3.3	168
12	Extracellular vesicles in diagnosis and therapy of kidney diseases. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F844-F851.	2.7	140
13	Muscle-derived miR-34a increases with age in circulating extracellular vesicles and induces senescence of bone marrow stem cells. <i>Aging</i> , 2019, 11, 1791-1803.	3.1	119
14	Molecular genetics in glaucoma. <i>Experimental Eye Research</i> , 2011, 93, 331-339.	2.6	118
15	Human aqueous humor exosomes. <i>Experimental Eye Research</i> , 2015, 132, 73-77.	2.6	114
16	Genetic association study of exfoliation syndrome identifies a protective rare variant at LOXL1 and five new susceptibility loci. <i>Nature Genetics</i> , 2017, 49, 993-1004.	21.4	114
17	Major review: Molecular genetics of primary open-angle glaucoma. <i>Experimental Eye Research</i> , 2017, 160, 62-84.	2.6	112
18	HIF-1-mediated production of exosomes during hypoxia is protective in renal tubular cells. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F906-F913.	2.7	110

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19	A common variant near TGFB3 is associated with primary open angle glaucoma. Human Molecular Genetics, 2015, 24, 3880-3892.	2.9	105
20	A common variant mapping to CACNA1A is associated with susceptibility to exfoliation syndrome. Nature Genetics, 2015, 47, 387-392.	21.4	97
21	Genome-wide association study and meta-analysis of intraocular pressure. Human Genetics, 2014, 133, 41-57.	3.8	93
22	Molecular and Histopathological Changes Associated with Keratoconus. BioMed Research International, 2017, 2017, 1-16.	1.9	92
23	Association of CAV1/CAV2 Genomic Variants with Primary Open-Angle Glaucoma Overall and by Gender and Pattern of Visual Field Loss. Ophthalmology, 2014, 121, 508-516.	5.2	91
24	Emerging role of extracellular vesicles in musculoskeletal diseases. Molecular Aspects of Medicine, 2018, 60, 123-128.	6.4	86
25	Genome-wide association study of posttraumatic stress disorder in a cohort of Iraq-Afghanistan era veterans. Journal of Affective Disorders, 2015, 184, 225-234.	4.1	81
26	Transplantation of Cardiac Mesenchymal Stem Cell-Derived Exosomes Promotes Repair in Ischemic Myocardium. Journal of Cardiovascular Translational Research, 2018, 11, 420-428.	2.4	80
27	Genetic variants and cellular stressors associated with exfoliation syndrome modulate promoter activity of a lncRNA within the LOXL1 locus. Human Molecular Genetics, 2015, 24, 6552-6563.	2.9	76
28	Investigation of Known Genetic Risk Factors for Primary Open Angle Glaucoma in Two Populations of African Ancestry. , 2013, 54, 6248.		73
29	Differentially expressed microRNAs in the aqueous humor of patients with exfoliation glaucoma or primary open-angle glaucoma. Human Molecular Genetics, 2018, 27, 1263-1275.	2.9	71
30	Dendritic cell derived exosomes loaded with immunoregulatory cargo reprogram local immune responses and inhibit degenerative bone disease <i>in vivo</i> . Journal of Extracellular Vesicles, 2020, 9, 1795362.	12.2	63
31	Extracellular vesicle-mediated long-range communication in stressed retinal pigment epithelial cell monolayers. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2610-2622.	3.8	61
32	Modification of Cardiac Progenitor Cell-Derived Exosomes by miR-322 Provides Protection against Myocardial Infarction through Nox2-Dependent Angiogenesis. Antioxidants, 2019, 8, 18.	5.1	61
33	Differential <i>in vivo</i> biodistribution of 131I-labeled exosomes from diverse cellular origins and its implication for theranostic application. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102072.	3.3	59
34	Update on the genetics of primary open-angle glaucoma. Experimental Eye Research, 2019, 188, 107795.	2.6	59
35	Gene Expression Profile in Human Trabecular Meshwork From Patients With Primary Open-Angle Glaucoma. , 2013, 54, 6382.		56
36	The NEIGHBOR Consortium Primary Open-Angle Glaucoma Genome-wide Association Study. Journal of Glaucoma, 2013, 22, 517-525.	1.6	55

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37	A Genome-Wide Association Study of Central Corneal Thickness in Latinos. , 2013, 54, 2435.		54
38	Very Long-Chain C24:1 Ceramide Is Increased in Serum Extracellular Vesicles with Aging and Can Induce Senescence in Bone-Derived Mesenchymal Stem Cells. Cells, 2019, 8, 37.	4.1	54
39	Exosome production and its regulation of EGFR during wound healing in renal tubular cells. American Journal of Physiology - Renal Physiology, 2017, 312, F963-F970.	2.7	53
40	Association of Genetic Variants With Primary Open-Angle Glaucoma Among Individuals With African Ancestry. JAMA - Journal of the American Medical Association, 2019, 322, 1682.	7.4	50
41	Lack of Association betweenLOXL1Variants and Primary Open-Angle Glaucoma in Three Different Populations. , 2008, 49, 3465.		48
42	miRNA Profile in Three Different Normal Human Ocular Tissues by miRNA-Seq. , 2016, 57, 3731.		46
43	Differential Expression of Coding and Long Noncoding RNAs in Keratoconus-Affected Corneas. , 2018, 59, 2717.		45
44	Assessing the Association of Mitochondrial Genetic Variation With Primary Open-Angle Glaucoma Using Gene-Set Analyses. , 2016, 57, 5046.		44
45	The Genetics of Keratoconus: A Review. , 2012, 01, .		42
46	A Common Variant in <i>MIR182</i> Is Associated With Primary Open-Angle Glaucoma in the NEIGHBORHOOD Consortium. , 2016, 57, 4528.		42
47	Freeze-Dried Extracellular Vesicles From Adipose-Derived Stem Cells Prevent Hypoxia-Induced Muscle Cell Injury. Frontiers in Cell and Developmental Biology, 2020, 8, 181.	3.7	42
48	Estrogen pathway polymorphisms in relation to primary open angle glaucoma: an analysis accounting for gender from the United States. Molecular Vision, 2013, 19, 1471-81.	1.1	40
49	GALC Deletions Increase the Risk of Primary Open-Angle Glaucoma: The Role of Mendelian Variants in Complex Disease. PLoS ONE, 2011, 6, e27134.	2.5	37
50	Epigenetic modifications in hyperhomocysteinemia: potential role in diabetic retinopathy and age-related macular degeneration. Oncotarget, 2018, 9, 12562-12590.	1.8	37
51	Decreased secretion and profibrotic activity of tubular exosomes in diabetic kidney disease. American Journal of Physiology - Renal Physiology, 2020, 319, F664-F673.	2.7	35
52	PPIP5K2 and PCSK1 are Candidate Genetic Contributors to Familial Keratoconus. Scientific Reports, 2019, 9, 19406.	3.3	34
53	Critical immunosuppressive effect of MDSCâ€™derived exosomes in the tumor microenvironment. Oncology Reports, 2021, 45, 1171-1181.	2.6	34
54	Screening of the Seed Region of<i>MIR184</i>in Keratoconus Patients from Saudi Arabia. BioMed Research International, 2015, 2015, 1-7.	1.9	32

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55	Association of a Primary Open-Angle Glaucoma Genetic Risk Score With Earlier Age at Diagnosis. <i>JAMA Ophthalmology</i> , 2019, 137, 1190.	2.5	32
56	Distinct role of Sirtuin 1 (SIRT1) and Sirtuin 2 (SIRT2) in inhibiting cargo-loading and release of extracellular vesicles. <i>Scientific Reports</i> , 2019, 9, 20049.	3.3	32
57	Transplantation of Cardiac Mesenchymal Stem Cell-Derived Exosomes for Angiogenesis. <i>Journal of Cardiovascular Translational Research</i> , 2018, 11, 429-437.	2.4	29
58	An Examination of the Association between 5-HTTLPR, Combat Exposure, and PTSD Diagnosis among U.S. Veterans. <i>PLoS ONE</i> , 2015, 10, e0119998.	2.5	29
59	Expression Profiling of Human Schlemm's Canal Endothelial Cells From Eyes With and Without Glaucoma. , 2015, 56, 6747.		28
60	DNA Copy Number Variants of Known Glaucoma Genes in Relation to Primary Open-Angle Glaucoma. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 8251-8258.	3.3	27
61	Magnetic nanoparticles as a new approach to improve the efficacy of gene therapy against differentiated human uterine fibroid cells and tumor-initiating stem cells. <i>Fertility and Sterility</i> , 2016, 105, 1638-1648.e8.	1.0	24
62	Expression of mRNAs, miRNAs, and lncRNAs in Human Trabecular Meshwork Cells Upon Mechanical Stretch. , 2020, 61, 2.		24
63	No association between OPA1 polymorphisms and primary open-angle glaucoma in three different populations. <i>Molecular Vision</i> , 2007, 13, 2137-41.	1.1	22
64	Encapsulating Cas9 into extracellular vesicles by protein myristoylation. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12196.	12.2	22
65	Transcriptional profiling of corneal stromal cells derived from patients with keratoconus. <i>Scientific Reports</i> , 2019, 9, 12567.	3.3	21
66	Bone Marrow Derived Extracellular Vesicles Activate Osteoclast Differentiation in Traumatic Brain Injury Induced Bone Loss. <i>Cells</i> , 2019, 8, 63.	4.1	21
67	<i>Porphyromonas gingivalis</i> Provokes Exosome Secretion and Paracrine Immune Senescence in Bystander Dendritic Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 669989.	3.9	21
68	Exercise improves angiogenic function of circulating exosomes in type 2 diabetes: Role of exosomal SOD3. <i>FASEB Journal</i> , 2022, 36, e22177.	0.5	21
69	Case-control association between CCT-associated variants and keratoconus in a Saudi Arabian population. <i>Journal of Negative Results in BioMedicine</i> , 2015, 14, 10.	1.4	20
70	Unraveling the role of genetics in the pathogenesis of diabetic retinopathy. <i>Eye</i> , 2019, 33, 534-541.	2.1	20
71	Sex-Specific Differences in Extracellular Vesicle Protein Cargo in Synovial Fluid of Patients with Osteoarthritis. <i>Life</i> , 2020, 10, 337.	2.4	20
72	Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. , 2022, 63, 12.		20

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73	Exosome-Derived Dystrophin from Allograft Myogenic Progenitors Improves Cardiac Function in Duchenne Muscular Dystrophic Mice. <i>Journal of Cardiovascular Translational Research</i> , 2018, 11, 412-419.	2.4	19
74	Serial analysis of gene expression (SAGE) in normal human trabecular meshwork. <i>Molecular Vision</i> , 2011, 17, 885-93.	1.1	19
75	Genetic correlations between intraocular pressure, blood pressure and primary open-angle glaucoma: a multi-cohort analysis. <i>European Journal of Human Genetics</i> , 2017, 25, 1261-1267.	2.8	18
76	Optineurin coding variants in Ghanaian patients with primary open-angle glaucoma. <i>Molecular Vision</i> , 2008, 14, 2367-72.	1.1	18
77	Testosterone Pathway Genetic Polymorphisms in Relation to Primary Open-Angle Glaucoma: An Analysis in Two Large Datasets. , 2018, 59, 629.		14
78	Generation of Novel Diagnostic and Therapeutic Exosomes to Detect and Deplete Protumorigenic M2 Macrophages. <i>Advanced Therapeutics</i> , 2020, 3, 1900209.	3.2	14
79	Proteomic Characterization, Biodistribution, and Functional Studies of Immune-Therapeutic Exosomes: Implications for Inflammatory Lung Diseases. <i>Frontiers in Immunology</i> , 2021, 12, 636222.	4.8	13
80	Association of Variant rs4790904 in Protein Kinase C Alpha with Posttraumatic Stress Disorder in a U.S. Caucasian and African-American Veteran Sample. <i>Journal of Depression & Anxiety</i> , 2013, 02, S4001.	0.1	13
81	Gene signatures of postoperative atrial fibrillation in atrial tissue after coronary artery bypass grafting surgery in patients receiving β -blockers. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 92, 109-115.	1.9	12
82	The Small GTPases Rab27b Regulates Mitochondrial Fatty Acid Oxidative Metabolism of Cardiac Mesenchymal Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 209.	3.7	11
83	Isolation of Extracellular Vesicles from Stem Cells. <i>Methods in Molecular Biology</i> , 2017, 1660, 389-394.	0.9	10
84	TSC1 Mutations in Keratoconus Patients With or Without Tuberous Sclerosis. , 2017, 58, 6462.		10
85	Optimal timing for activation of sigma 1 receptor in the <i>Pde6b/l</i> (rd10) mouse model of retinitis pigmentosa. <i>Experimental Eye Research</i> , 2021, 202, 108397.	2.6	10
86	The role of microRNAs in glaucoma. <i>Experimental Eye Research</i> , 2022, 215, 108909.	2.6	10
87	Omics Analyses in Keratoconus: from Transcriptomics to Proteomics. <i>Current Ophthalmology Reports</i> , 2020, 8, 216-225.	1.2	9
88	Ocular cytomegalovirus latency exacerbates the development of choroidal neovascularization. <i>Journal of Pathology</i> , 2020, 251, 200-212.	4.5	8
89	Potential underlying genetic associations between keratoconus and diabetes mellitus. <i>Advances in Ophthalmology Practice and Research</i> , 2021, 1, 100005.	0.9	8
90	A Novel Cx50 Insert Mutation from a Chinese Congenital Cataract Family Impairs Its Cellular Membrane Localization and Function. <i>DNA and Cell Biology</i> , 2018, 37, 449-456.	1.9	7

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91	Effect of genetic variation in the nicotinic receptor genes on risk for posttraumatic stress disorder. <i>Psychiatry Research</i> , 2015, 229, 326-331.	3.3	6
92	Age at natural menopause genetic risk score in relation to age at natural menopause and primary open-angle glaucoma in a US-based sample. <i>Menopause</i> , 2017, 24, 150-156.	2.0	6
93	Identification of Estrogen Signaling in a Prioritization Study of Intraocular Pressure-Associated Genes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10288.	4.1	6
94	The role of lysyl oxidase-like 1 DNA copy number variants in exfoliation glaucoma. <i>Molecular Vision</i> , 2012, 18, 2976-81.	1.1	6
95	Further evidence for a role of the ADRB2 gene in risk for posttraumatic stress disorder. <i>Journal of Psychiatric Research</i> , 2017, 84, 59-61.	3.1	5
96	Hindlimb Immobilization Increases IL-1 β and Cdkn2a Expression in Skeletal Muscle Fibro-Adipogenic Progenitor Cells: A Link Between Senescence and Muscle Disuse Atrophy. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 790437.	3.7	5
97	MicroRNA cargo of extracellular vesicles released by skeletal muscle fibro-adipogenic progenitor cells is significantly altered with disuse atrophy and IL-1 β deficiency. <i>Physiological Genomics</i> , 2022, 54, 296-304.	2.3	4
98	A novel 3D culture model of fungal keratitis to explore host-pathogen interactions within the stromal environment. <i>Experimental Eye Research</i> , 2021, 207, 108581.	2.6	3
99	An In Vitro Bovine Cellular Model for Human Schlemm's Canal Endothelial Cells and Their Response to TGF β Treatment. <i>Translational Vision Science and Technology</i> , 2020, 9, 32.	2.2	2
100	Differential DNA methylation patterns in human Schlemm's canal endothelial cells with glaucoma. <i>Molecular Vision</i> , 2020, 26, 483-493.	1.1	2