

Guei-Sheung Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,911
citations

24
h-index

40
g-index

97
ext. papers

2,353
ext. citations

5.7
avg, IF

4.78
L-index

#	Paper	IF	Citations
84	NADPH oxidase-dependent redox signaling in TGF- β -mediated fibrotic responses. <i>Redox Biology</i> , 2014 , 2, 267-72	11.3	159
83	Differentiation of human adipose-derived stem cells into fat involves reactive oxygen species and Forkhead box O1 mediated upregulation of antioxidant enzymes. <i>Stem Cells and Development</i> , 2013 , 22, 878-88	4.4	130
82	AAV-Mediated CRISPR/Cas Gene Editing of Retinal Cells In Vivo 2016 , 57, 3470-6		97
81	Ocular Drug Delivery: Role of Degradable Polymeric Nanocarriers for Ophthalmic Application. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	92
80	Shear stress regulates endothelial cell autophagy via redox regulation and Sirt1 expression. <i>Cell Death and Disease</i> , 2015 , 6, e1827	9.8	91
79	Three Dimensional Collagen Scaffold Promotes Intrinsic Vascularisation for Tissue Engineering Applications. <i>PLoS ONE</i> , 2016 , 11, e0149799	3.7	78
78	Redox mechanisms in regulation of adipocyte differentiation: beyond a general stress response. <i>Cells</i> , 2012 , 1, 976-93	7.9	73
77	Nox4 modulates collagen production stimulated by transforming growth factor β in vivo and in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 918-25	3.4	48
76	Transplantation of engineered cardiac muscle flaps in syngeneic rats. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1992-9	3.9	46
75	Gene therapy for visual loss: Opportunities and concerns. <i>Progress in Retinal and Eye Research</i> , 2019 , 68, 31-53	20.5	46
74	Mitochondrial fission protein Drp1 inhibition promotes cardiac mesodermal differentiation of human pluripotent stem cells. <i>Cell Death Discovery</i> , 2018 , 4, 39	6.9	44
73	Transforming growth factor- β requires NADPH oxidase 4 for angiogenesis in vitro and in vivo. <i>Journal of Cellular and Molecular Medicine</i> , 2014 , 18, 1172-83	5.6	40
72	Cardiac Repair With a Novel Population of Mesenchymal Stem Cells Resident in the Human Heart. <i>Stem Cells</i> , 2015 , 33, 3100-13	5.8	39
71	Involvement of Nox2 NADPH oxidase in retinal neovascularization 2013 , 54, 7061-7		37
70	Nanocarriers for treatment of ocular neovascularization in the back of the eye: new vehicles for ophthalmic drug delivery. <i>Nanomedicine</i> , 2015 , 10, 2093-107	5.6	36
69	Tumorigenesis and prognostic role of hepatoma-derived growth factor in human gliomas. <i>Journal of Neuro-Oncology</i> , 2012 , 107, 101-9	4.8	31
68	Microphthalmia-associated transcription factor modulates expression of NADPH oxidase type 4: a negative regulator of melanogenesis. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1835-43	7.8	31

67	Annexin peptide Ac2-26 suppresses TNF α -induced inflammatory responses via inhibition of Rac1-dependent NADPH oxidase in human endothelial cells. <i>PLoS ONE</i> , 2013 , 8, e60790	3.7	31
66	Gene transfer of pro-opiomelanocortin prohormone suppressed the growth and metastasis of melanoma: involvement of alpha-melanocyte-stimulating hormone-mediated inhibition of the nuclear factor kappaB/cyclooxygenase-2 pathway. <i>Molecular Pharmacology</i> , 2006 , 69, 440-51	4.3	30
65	Prostacyclin signaling boosts NADPH oxidase 4 in the endothelium promoting cytoprotection and angiogenesis. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 2710-25	8.4	29
64	Preparation of arginine-glycine-aspartic acid-modified biopolymeric nanoparticles containing epigallocatechin-3-gallate for targeting vascular endothelial cells to inhibit corneal neovascularization. <i>International Journal of Nanomedicine</i> , 2017 , 12, 279-294	7.3	29
63	Glial cell line-derived neurotrophic factor gene transfer exerts protective effect on axons in sciatic nerve following constriction-induced peripheral nerve injury. <i>Human Gene Therapy</i> , 2011 , 22, 721-31	4.8	27
62	Gene therapy for diabetic retinopathy: Are we ready to make the leap from bench to bedside?. <i>Pharmacology & Therapeutics</i> , 2017 , 173, 1-18	13.9	25
61	Gene delivery of endothelial nitric oxide synthase into nucleus tractus solitarii induces biphasic response in cardiovascular functions of hypertensive rats. <i>American Journal of Hypertension</i> , 2004 , 17, 63-70	2.3	23
60	Pro-opiomelanocortin gene delivery suppresses the growth of established Lewis lung carcinoma through a melanocortin-1 receptor-independent pathway. <i>Journal of Gene Medicine</i> , 2012 , 14, 44-53	3.5	21
59	Hepatoma-derived growth factor stimulates podosome rosettes formation in NIH/3T3 cells through the activation of phosphatidylinositol 3-kinase/Akt pathway. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 425, 169-76	3.4	21
58	Downregulation of hepatoma-derived growth factor contributes to retarded lung metastasis via inhibition of epithelial-mesenchymal transition by systemic POMC gene delivery in melanoma. <i>Molecular Cancer Therapeutics</i> , 2013 , 12, 1016-25	6.1	21
57	Systemic pro-opiomelanocortin expression induces melanogenic differentiation and inhibits tumor angiogenesis in established mouse melanoma. <i>Human Gene Therapy</i> , 2011 , 22, 325-35	4.8	20
56	Inhibition of cartilage damage by pro-opiomelanocortin prohormone overexpression in a rat model of osteoarthritis. <i>Experimental Biology and Medicine</i> , 2011 , 236, 334-40	3.7	19
55	Public Attitudes toward Gene Therapy in China. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017 , 6, 40-42	6.4	18
54	Development of Kaempferol-Loaded Gelatin Nanoparticles for the Treatment of Corneal Neovascularization in Mice. <i>Pharmaceutics</i> , 2019 , 11,	6.4	18
53	Differential effects of superoxide dismutase and superoxide dismutase/catalase mimetics on human breast cancer cells. <i>Breast Cancer Research and Treatment</i> , 2015 , 150, 523-34	4.4	17
52	Pharmacological priming of adipose-derived stem cells for paracrine VEGF production with deferoxamine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E167-76	4.4	16
51	An oral bait vaccination approach for the Tasmanian devil facial tumor diseases. <i>Expert Review of Vaccines</i> , 2020 , 19, 1-10	5.2	16
50	Gene Therapy with Endogenous Inhibitors of Angiogenesis for Neovascular Age-Related Macular Degeneration: Beyond Anti-VEGF Therapy. <i>Journal of Ophthalmology</i> , 2015 , 2015, 201726	2	15

49	Peripheral gene transfer of glial cell-derived neurotrophic factor ameliorates neuropathic deficits in diabetic rats. <i>Human Gene Therapy</i> , 2009 , 20, 715-27	4.8	15
48	Transforming Growth Factor β -Induced NADPH Oxidase-4 Expression and Fibrotic Response in Conjunctival Fibroblasts 2017 , 58, 3011-3017		14
47	Intrathecal gene delivery of glial cell line-derived neurotrophic factor ameliorated paraplegia in rats after spinal ischemia. <i>Molecular Brain Research</i> , 2005 , 133, 198-207		14
46	Up-regulation of hepatoma-derived growth factor facilitates tumor progression in malignant melanoma [corrected]. <i>PLoS ONE</i> , 2013 , 8, e59345	3.7	14
45	Approach for in vivo delivery of CRISPR/Cas system: a recent update and future prospect. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 2683-2708	10.3	14
44	Proteomics reveals ablation of PLGF increases antioxidant and neuroprotective proteins in the diabetic mouse retina. <i>Scientific Reports</i> , 2018 , 8, 16728	4.9	14
43	Utility of Self-Destructing CRISPR/Cas Constructs for Targeted Gene Editing in the Retina. <i>Human Gene Therapy</i> , 2019 , 30, 1349-1360	4.8	13
42	Redox mechanisms in pathological angiogenesis in the retina: roles for NADPH oxidase. <i>Current Pharmaceutical Design</i> , 2015 , 21, 5988-98	3.3	13
41	Gene Therapy Intervention in Neovascular Eye Disease: A Recent Update. <i>Molecular Therapy</i> , 2020 , 28, 2120-2138	11.7	12
40	Redox mechanisms of the beneficial effects of heme oxygenase in hypertension. <i>Journal of Hypertension</i> , 2014 , 32, 1379-86; discussion 1387	1.9	12
39	Proopiomelanocortin gene delivery induces apoptosis in melanoma through NADPH oxidase 4-mediated ROS generation. <i>Free Radical Biology and Medicine</i> , 2014 , 70, 14-22	7.8	11
38	NADPH oxidase 2 plays a role in experimental corneal neovascularization. <i>Clinical Science</i> , 2016 , 130, 683-96	6.5	11
37	Annexin V-containing cubosomes for targeted early detection of apoptosis in degenerative retinal tissue. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7652-7661	7.3	11
36	Inhibition of choroidal neovascularization by topical application of angiogenesis inhibitor vasostatin. <i>Molecular Vision</i> , 2009 , 15, 1897-905	2.3	10
35	A drug-tunable Flt23k gene therapy for controlled intervention in retinal neovascularization. <i>Angiogenesis</i> , 2021 , 24, 97-110	10.6	10
34	Methods for In Vivo CRISPR/Cas Editing of the Adult Murine Retina. <i>Methods in Molecular Biology</i> , 2018 , 1715, 113-133	1.4	10
33	Gene Delivery by Subconjunctival Injection of Adenovirus in Rats: A Study of Local Distribution, Transgene Duration and Safety. <i>PLoS ONE</i> , 2015 , 10, e0143956	3.7	9
32	Defining the structural characteristics of annexin V binding to a mimetic apoptotic membrane. <i>European Biophysics Journal</i> , 2015 , 44, 697-708	1.9	8

31	Updates on Gene Therapy for Diabetic Retinopathy. <i>Current Diabetes Reports</i> , 2020 , 20, 22	5.6	8
30	AAV-mediated gene delivery of the calreticulin anti-angiogenic domain inhibits ocular neovascularization. <i>Angiogenesis</i> , 2018 , 21, 95-109	10.6	8
29	Enhancement of neurite outgrowth in neuron cancer stem cells by growth on 3-D collagen scaffolds. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 428, 68-73	3.4	8
28	Acrylic acid surface-modified contact lens for the culture of limbal stem cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1593-602	3.9	7
27	Prophylactic proopiomelanocortin expression alleviates capsaicin-induced neurogenic inflammation in rat trachea. <i>Shock</i> , 2009 , 32, 645-50	3.4	7
26	Comparison of CRISPR/Cas Endonucleases for Retinal Gene Editing. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 570917	6.1	7
25	Topical Application of Hyaluronic Acid-RGD Peptide-Coated Gelatin/Epigallocatechin-3 Gallate (EGCG) Nanoparticles Inhibits Corneal Neovascularization Via Inhibition of VEGF Production. <i>Pharmaceutics</i> , 2020 , 12,	6.4	6
24	NLR5 regulates expression of MHC-I and provides a target for anti-tumor immunity in transmissible cancers. <i>Journal of Cancer Research and Clinical Oncology</i> , 2021 , 147, 1973-1991	4.9	6
23	Blockade of endothelin-1 release contributes to the anti-angiogenic effect by pro-opiomelanocortin overexpression in endothelial cells. <i>Experimental Biology and Medicine</i> , 2006 , 231, 782-8	3.7	6
22	Autophagic cell death participates in POMC-induced melanoma suppression. <i>Cell Death Discovery</i> , 2018 , 4, 11	6.9	5
21	Intraocular Pressure Induced Retinal Changes Identified Using Synchrotron Infrared Microscopy. <i>PLoS ONE</i> , 2016 , 11, e0164035	3.7	5
20	Optic neuropathy and increased retinal glial fibrillary acidic protein due to microbead-induced ocular hypertension in the rabbit. <i>International Journal of Ophthalmology</i> , 2016 , 9, 1732-1739	1.4	4
19	TAK1 signaling is a potential therapeutic target for pathological angiogenesis. <i>Angiogenesis</i> , 2021 , 24, 453-470	10.6	4
18	Gene Delivery of Calreticulin Anti-Angiogenic Domain Attenuates the Development of Choroidal Neovascularization in Rats. <i>Human Gene Therapy</i> , 2017 , 28, 403-414	4.8	3
17	Screening of CRISPR/Cas base editors to target the AMD high-risk Y402H complement factor H variant. <i>Molecular Vision</i> , 2019 , 25, 174-182	2.3	3
16	Targeted delivery of LM22A-4 by cubosomes protects retinal ganglion cells in an experimental glaucoma model. <i>Acta Biomaterialia</i> , 2021 , 126, 433-444	10.8	3
15	Methods for Assessing Scaffold Vascularization In Vivo. <i>Methods in Molecular Biology</i> , 2019 , 1993, 217-226	2	2
14	NLR5 regulates expression of MHC-I and provides a target for anti-tumor immunity in transmissible cancers		2

13	Inhibition of Experimental Choroidal Neovascularization by a Novel Peptide Derived from Calreticulin Anti-Angiogenic Domain. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	2
12	Rapid and efficient cataract gene evaluation in F0 zebrafish using CRISPR-Cas9 ribonucleoprotein complexes. <i>Methods</i> , 2021 , 194, 37-47	4.6	2
11	Transplantation of 3D adipose-derived stem cell/hepatocyte spheroids alleviates chronic hepatic damage in a rat model of thioacetamide-induced liver cirrhosis.. <i>Scientific Reports</i> , 2022 , 12, 1227	4.9	1
10	Topical application of TAK1 inhibitor encapsulated by gelatin particle alleviates corneal neovascularization.. <i>Theranostics</i> , 2022 , 12, 657-674	12.1	1
9	Efficacy and dynamics of self-targeting CRISPR/Cas constructs for gene editing in the retina		1
8	Methods for CRISPR/CasRx-Mediated RNA Editing. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 667879	5.7	1
7	TAK1 blockade as a therapy for retinal neovascularization		1
6	Bulk Gene Expression Deconvolution Reveals Infiltration of M2 Macrophages in Retinal Neovascularization 2021 , 62, 22		0
5	Approaches for the sensitive detection of rare base and prime editing events. <i>Methods</i> , 2021 , 194, 75-824.6		0
4	Nox isoforms in thickened tissue. <i>Experimental Dermatology</i> , 2015 , 24, 97-8	4	
3	EXPRESSION OF THE PROANGIOGENIC PROTEIN HEPATOMA-DERIVED GROWTH FACTOR IN NEOVESSELS IN AN ARTERIAL VENOUS LOOP-BASED TISSUE ENGINEERING CHAMBER. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2013 , 25, 1340007	0.6	
2	Using Bioinformatics to Identify Novel Druggable Targets for Retinal Neovascularisation Causing Loss of Vision: Transforming Growth Factor Beta-Activated Kinase 1 (TAK1). <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, PO2-9-8		0
1	NADPH Oxidase in Tissue Repair and Regeneration 2014 , 2517-2537		