

Mike O Karl

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,008
citations

361413

20
h-index

302126

39
g-index

44
all docs

44
docs citations

44
times ranked

3048
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient generation of retinal progenitor cells from human embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12769-12774.	7.1	656
2	Stimulation of neural regeneration in the mouse retina. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19508-19513.	7.1	347
3	Retinal Organoids from Pluripotent Stem Cells Efficiently Recapitulate Retinogenesis. Stem Cell Reports, 2016, 6, 525-538.	4.8	236
4	Regenerative medicine for retinal diseases: activating endogenous repair mechanisms. Trends in Molecular Medicine, 2010, 16, 193-202.	6.7	196
5	The Light Peak of the Electroretinogram Is Dependent on Voltage-gated Calcium Channels and Antagonized by Bestrophin (Best-1). Journal of General Physiology, 2006, 127, 577-589.	1.9	186
6	Ion channels in the RPE. Progress in Retinal and Eye Research, 2007, 26, 263-301.	15.5	167
7	Neural Regeneration and Cell Replacement: A View from the Eye. Cell Stem Cell, 2008, 2, 538-549.	11.1	155
8	Genome-Wide Analysis of Müller Glial Differentiation Reveals a Requirement for Notch Signaling in Postmitotic Cells to Maintain the Glial Fate. PLoS ONE, 2011, 6, e22817.	2.5	124
9	Three-Dimensional Neuroepithelial Culture from Human Embryonic Stem Cells and Its Use for Quantitative Conversion to Retinal Pigment Epithelium. PLoS ONE, 2013, 8, e54552.	2.5	92
10	The Ternary Rab27a-Myrip-Myosin VIIa Complex Regulates Melanosome Motility in the Retinal Pigment Epithelium. Traffic, 2007, 8, 486-499.	2.7	81
11	Strategies for retinal repair: cell replacement and regeneration. Progress in Brain Research, 2009, 175, 23-31.	1.4	75
12	Stem Cell-Derived Photoreceptor Transplants Differentially Integrate Into Mouse Models of Cone-Rod Dystrophy. , 2016, 57, 3509.		71
13	Age-dependent Müller glia neurogenic competence in the mouse retina. Glia, 2015, 63, 1809-1824.	4.9	69
14	Characterization of a Mouse Model With Complete RPE Loss and Its Use for RPE Cell Transplantation. , 2014, 55, 5431.		54
15	P53 is required for the developmental restriction in Müller glial proliferation in mouse retina. Glia, 2012, 60, 1579-1589.	4.9	50
16	Endogenous Gas6 and Ca ²⁺ -channel activation modulate phagocytosis by retinal pigment epithelium. Cellular Signalling, 2008, 20, 1159-1168.	3.6	39
17	Common actions of adenosine receptor agonists in modulating human trabecular meshwork cell transport. Journal of Membrane Biology, 2003, 193, 121-136.	2.1	38
18	Baf60c is a component of the neural progenitor-specific BAF complex in developing retina. Developmental Dynamics, 2008, 237, 3016-3023.	1.8	38

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19	Differential P1-purinergetic modulation of human Schlemm's canal inner-wall cells. American Journal of Physiology - Cell Physiology, 2005, 288, C784-C794.	4.6	33
20	Retinal cell death dependent reactive proliferative gliosis in the mouse retina. Scientific Reports, 2017, 7, 9517.	3.3	30
21	Voltage-dependent ion channels in the mouse RPE: Comparison with Norrie disease mice. Vision Research, 2006, 46, 688-698.	1.4	27
22	Transplanted human cones incorporate into the retina and function in a murine cone degeneration model. Journal of Clinical Investigation, 2022, 132, .	8.2	26
23	Studying the Generation of Regenerated Retinal Neuron from Müller Glia in the Mouse Eye. Methods in Molecular Biology, 2012, 884, 213-227.	0.9	25
24	Optimized Adeno-Associated Virus Vectors for Efficient Transduction of Human Retinal Organoids. Human Gene Therapy, 2021, 32, 694-706.	2.7	22
25	The potential of stem cell research for the treatment of neuronal damage in glaucoma. Cell and Tissue Research, 2013, 353, 311-325.	2.9	20
26	MERTK-Dependent Ensheathment of Photoreceptor Outer Segments by Human Pluripotent Stem Cell-Derived Retinal Pigment Epithelium. Stem Cell Reports, 2020, 14, 374-389.	4.8	17
27	Hematopoietic hypoxia-inducible factor 2 α deficiency ameliorates pathological retinal neovascularization via modulation of endothelial cell apoptosis. FASEB Journal, 2019, 33, 1758-1770.	0.5	15
28	Mouse Retinal Organoid Growth and Maintenance in Longer-Term Culture. Frontiers in Cell and Developmental Biology, 2021, 9, 645704.	3.7	13
29	Cell-specific differential modulation of human trabecular meshwork cells by selective adenosine receptor agonists. Experimental Eye Research, 2007, 84, 126-134.	2.6	12
30	Evidence for endogenous exchange of cytoplasmic material between a subset of cone and rod photoreceptors within the adult mammalian retina via direct cell-cell connections. Experimental Eye Research, 2022, 219, 109033.	2.6	12
31	Prospective purification and characterization of Müller glia in the mouse retina regeneration assay. Glia, 2017, 65, 828-847.	4.9	11
32	The Mouse Retinal Organoid Trisection Recipe: Efficient Generation of 3D Retinal Tissue from Mouse Embryonic Stem Cells. Methods in Molecular Biology, 2019, 1834, 119-141.	0.9	11
33	Cell culture conditions affect RPE phagocytic function. Graefe's Archive for Clinical and Experimental Ophthalmology, 2006, 245, 981-991.	1.9	10
34	Electron probe X-ray microanalysis of intact pathway for human aqueous humor outflow. American Journal of Physiology - Cell Physiology, 2008, 295, C1083-C1091.	4.6	10
35	Morpho-rheological Fingerprinting of Rod Photoreceptors Using Real-time Deformability Cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 1145-1157.	1.5	10
36	Imaging of nanoparticle-labeled stem cells using magnetomotive optical coherence tomography, laser speckle reflectometry, and light microscopy. Journal of Biomedical Optics, 2015, 20, 036018.	2.6	7

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37	A Human Retinal Pigment Epithelium-Based Screening Platform Reveals Inducers of Photoreceptor Outer Segments Phagocytosis. <i>Stem Cell Reports</i> , 2020, 15, 1347-1361.	4.8	7
38	Improved Imaging of Magnetically Labeled Cells Using Rotational Magnetomotive Optical Coherence Tomography. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 444.	2.5	6
39	Magnetomotive imaging of iron oxide nanoparticles as cellular contrast agents for optical coherence tomography. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
40	Investigation of human organoid retina with digital holographic transmission matrix measurements. <i>Light Advanced Manufacturing</i> , 2022, 3, 1.	5.1	3
41	Expression of the transcription factor Hes3 in the mouse and human ocular surface, and in pterygium. <i>International Journal of Radiation Biology</i> , 2014, 90, 700-709.	1.8	2
42	High-resolution optical coherence tomography in mouse models of genetic and induced retinal degeneration. , 2013, , .		1
43	Author Response: Possibility of Cytoplasmic Transportation Between Donorâ€™Host Cell Following Photoreceptor Transplantation. , 2016, 57, 5336.		0