

Mark Johnson

List of Publications by Year in descending order

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48
papers

3,947
citations

212478

28
h-index

286692

43
g-index

50
all docs

50
docs citations

50
times ranked

3534
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Engineering of FLT4-Targeted Nanocarriers Enhances Cell-Softening Glaucoma Therapy. ACS Applied Materials & Interfaces, 2021, 13, 32823-32836.	4.0	10
2	Modeling the effects of glaucoma surgery on intraocular pressure. Experimental Eye Research, 2021, 209, 108620.	1.2	2
3	Twelve tips for thriving in the face of clinical uncertainty. Medical Teacher, 2020, 42, 493-499.	1.0	49
4	Targeted Delivery of Cell Softening Micelles to Schlemm's Canal Endothelial Cells for Treatment of Glaucoma. Small, 2020, 16, e2004205.	5.2	21
5	In Vivo Imaging of Schlemm's Canal and Limbal Vascular Network in Mouse Using Visible-Light OCT. , 2020, 61, 23.		23
6	Probe Sensitivity to Cortical versus Intracellular Cytoskeletal Network Stiffness. Biophysical Journal, 2019, 116, 518-529.	0.2	46
7	Increased stiffness and flow resistance of the inner wall of Schlemm's canal in glaucomatous human eyes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26555-26563.	3.3	70
8	TGF-beta TGF-beta RII CLC-3 axis promotes cognitive disorders in diabetes. Frontiers in Bioscience - Landmark, 2019, 24, 482-493.	3.0	0
9	Modulation of Schlemm's canal endothelial cell stiffness via latrunculin loaded block copolymer micelles. Journal of Biomedical Materials Research - Part A, 2018, 106, 1771-1779.	2.1	23
10	Rho Kinase Inhibitors as a Novel Treatment for Glaucoma and Ocular Hypertension. Ophthalmology, 2018, 125, 1741-1756.	2.5	179
11	The effect of the rate of hydrostatic pressure depressurization on cells in culture. PLoS ONE, 2018, 13, e0189890.	1.1	16
12	Unconventional aqueous humor outflow: A review. Experimental Eye Research, 2017, 158, 94-111.	1.2	141
13	High-throughput screening for modulators of cellular contractile force. Integrative Biology (United Tj ETQq1 1 0.784314 rgBT /Overl 0.6 60		
14	Finite element analysis of the pressure-induced deformation of Schlemm's canal endothelial cells. Biomechanics and Modeling in Mechanobiology, 2015, 14, 851-863.	1.4	9
15	Biomechanics of Schlemm's canal endothelium and intraocular pressure reduction. Progress in Retinal and Eye Research, 2015, 44, 86-98.	7.3	133
16	Altered mechanobiology of Schlemm's canal endothelial cells in glaucoma. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13876-13881.	3.3	144
17	Endothelial glycocalyx layer in the aqueous outflow pathway of bovine and human eyes. Experimental Eye Research, 2014, 128, 27-33.	1.2	23
18	Structure, Function, and Pathology of Bruch's Membrane. , 2013, , 465-481.		68

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19	Passage of low-density lipoproteins through Bruch's membrane and choroid. <i>Experimental Eye Research</i> , 2011, 93, 947-955.	1.2	34
20	The oil spill in ageing Bruch membrane. <i>British Journal of Ophthalmology</i> , 2011, 95, 1638-1645.	2.1	307
21	Young's modulus of elasticity of Schlemm's canal endothelial cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010, 9, 19-33.	1.4	46
22	Apolipoprotein B-containing lipoproteins in retinal aging and age-related macular degeneration. <i>Journal of Lipid Research</i> , 2010, 51, 451-467.	2.0	161
23	Adequacy of exchanging the content of the anterior chamber. <i>Experimental Eye Research</i> , 2010, 91, 876-880.	1.2	2
24	Aging, age-related macular degeneration, and the response-to-retention of apolipoprotein B-containing lipoproteins. <i>Progress in Retinal and Eye Research</i> , 2009, 28, 393-422.	7.3	227
25	Douglas H. Johnson: A tribute. <i>Experimental Eye Research</i> , 2009, 88, 620-630.	1.2	1
26	The changing paradigm of outflow resistance generation: Towards synergistic models of the JCT and inner wall endothelium. <i>Experimental Eye Research</i> , 2009, 88, 656-670.	1.2	222
27	Effects of particulates and lipids on the hydraulic conductivity of Matrigel. <i>Journal of Applied Physiology</i> , 2008, 105, 621-628.	1.2	17
28	Chapter 6 Aqueous Humor Outflow Resistance. <i>Current Topics in Membranes</i> , 2008, , 161-192.	0.5	6
29	Morphometric Analysis of Lipoprotein-like Particle Accumulation in Aging Human Macular Bruch's Membrane. , 2008, 49, 2721.		43
30	Comparison of Morphology of Human Macular and Peripheral Bruch's Membrane in Older Eyes. <i>Current Eye Research</i> , 2007, 32, 791-799.	0.7	39
31	Age-related changes in human macular Bruch's membrane as seen by quick-freeze/deep-etch. <i>Experimental Eye Research</i> , 2007, 85, 202-218.	1.2	88
32	"What controls aqueous humour outflow resistance?". <i>Experimental Eye Research</i> , 2006, 82, 545-557.	1.2	403
33	Studies on depth-of-field effects in microscopy supported by numerical simulations. <i>Journal of Microscopy</i> , 2005, 220, 176-189.	0.8	19
34	Ocular Biomechanics and Biotransport. <i>Annual Review of Biomedical Engineering</i> , 2004, 6, 249-273.	5.7	253
35	Quick-Freeze/Deep-Etch Visualization of Age-Related Lipid Accumulation in Bruch's Membrane. , 2003, 44, 1753.		123
36	Glaucoma Surgery and Aqueous Outflow. <i>JAMA Ophthalmology</i> , 2002, 120, 67.	2.6	38

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37	A New View of the Human Trabecular Meshwork Using Quick-freeze, Deep-etch Electron Microscopy. <i>Experimental Eye Research</i> , 2002, 75, 347-358.	1.2	65
38	The pore density in the inner wall endothelium of Schlemm's canal of glaucomatous eyes. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 2950-5.	3.3	90
39	A new view of the human trabecular meshwork using quick-freeze, deep-etch electron microscopy. <i>Experimental Eye Research</i> , 2002, 75, 347-58.	1.2	33
40	The mechanism of increasing outflow facility during washout in the bovine eye. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 3455-64.	3.3	70
41	Specific Hydraulic Conductivity of Corneal Stroma as Seen by Quick-Freeze/Deep-Etch. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 154-161.	0.6	26
42	How Does Nonpenetrating Glaucoma Surgery Work? Aqueous Outflow Resistance and Glaucoma Surgery. <i>Journal of Glaucoma</i> , 2001, 10, 55-67.	0.8	132
43	A Biphasic, Anisotropic Model of the Aortic Wall. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 52-57.	0.6	21
44	Age-related changes of sulfated proteoglycans in the normal human trabecular meshwork. <i>Experimental Eye Research</i> , 1992, 55, 691-709.	1.2	68
45	The nonlinear growth of surface-tension-driven instabilities of a thin annular film. <i>Journal of Fluid Mechanics</i> , 1991, 233, 141-156.	1.4	92
46	The pressure and volume dependence of the rate of wash-out in the bovine eye. <i>Current Eye Research</i> , 1991, 10, 373-375.	0.7	24
47	The filtration characteristics of the aqueous outflow system. <i>Experimental Eye Research</i> , 1990, 50, 407-418.	1.2	48
48	Outflow resistance of enucleated human eyes at two different perfusion pressures and different extents of trabeculotomy. <i>Current Eye Research</i> , 1989, 8, 1233-1240.	0.7	231