

John G Flanagan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10518304/publications.pdf>

Version: 2024-02-01

58
papers

3,410
citations

218592

26
h-index

276775

41
g-index

58
all docs

58
docs citations

58
times ranked

2504
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors Influencing Optic Nerve Head Biomechanics. , 2005, 46, 4189.		453
2	Finite Element Modeling of Optic Nerve Head Biomechanics. , 2004, 45, 4378.		286
3	Dimensions of the human sclera: Thickness measurement and regional changes with axial length. Experimental Eye Research, 2010, 90, 277-284.	1.2	179
4	Finite element modeling of the human sclera: Influence on optic nerve head biomechanics and connections with glaucoma. Experimental Eye Research, 2011, 93, 4-12.	1.2	163
5	Predicted extension, compression and shearing of optic nerve head tissues. Experimental Eye Research, 2007, 85, 312-322.	1.2	159
6	Modeling individual-specific human optic nerve head biomechanics. Part I: IOP-induced deformations and influence of geometry. Biomechanics and Modeling in Mechanobiology, 2009, 8, 85-98.	1.4	148
7	Modeling individual-specific human optic nerve head biomechanics. Part II: influence of material properties. Biomechanics and Modeling in Mechanobiology, 2009, 8, 99-109.	1.4	142
8	Biaxial mechanical testing of human sclera. Journal of Biomechanics, 2010, 43, 1696-1701.	0.9	114
9	3D morphometry of the human optic nerve head. Experimental Eye Research, 2010, 90, 70-80.	1.2	87
10	Relative Change in Diurnal Mean Ocular Perfusion Pressure: A Risk Factor for the Diagnosis of Primary Open-Angle Glaucoma. , 2005, 46, 561.		86
11	Solving neurodegeneration: common mechanisms and strategies for new treatments. Molecular Neurodegeneration, 2022, 17, 23.	4.4	83
12	Vascular Reactivity of Optic Nerve Head and Retinal Blood Vessels in Glaucoma - A Review. Microcirculation, 2010, 17, no-no.	1.0	82
13	Reconstruction of human optic nerve heads for finite element modeling. Technology and Health Care, 2005, 13, 313-329.	0.5	69
14	Astrocyte-derived lipoxins A4 and B4 promote neuroprotection from acute and chronic injury. Journal of Clinical Investigation, 2017, 127, 4403-4414.	3.9	69
15	Strain Uniformity in Biaxial Specimens is Highly Sensitive to Attachment Details. Journal of Biomechanical Engineering, 2009, 131, 091003.	0.6	67
16	Effect of Sleeping in a Head-Up Position on Intraocular Pressure in Patients with Glaucoma. Ophthalmology, 2010, 117, 1348-1351.	2.5	67
17	All roads lead to glaucoma: Induced retinal injury cascades contribute to a common neurodegenerative outcome. Experimental Eye Research, 2019, 183, 88-97.	1.2	65
18	Effects of Scleral Stiffness Properties on Optic Nerve Head Biomechanics. Annals of Biomedical Engineering, 2010, 38, 1586-1592.	1.3	63

#	ARTICLE	IF	CITATIONS
19	Variability and repeatability of retinal blood flow measurements using the Canon laser blood flowmeter†††Aspects of this work were presented at the 2002 annual meetings of the Association for Research in Vision and Ophthalmology and of the American Diabetes Association. The authors have no proprietary interest in the Canon Laser Blood Flowmeter.. Microvascular Research, 2003, 65, 145-151.	1.1	60
20	Retinal Hemodynamics in Early Diabetic Macular Edema. Diabetes, 2006, 55, 813-818.	0.3	60
21	Proteomics Analyses of Human Optic Nerve Head Astrocytes Following Biomechanical Strain. Molecular and Cellular Proteomics, 2012, 11, M111.012302.	2.5	57
22	Evaluation of FASTPAC, a New Strategy for Threshold Estimation with the Humphrey Field Analyzer, in a Glaucomatous Population. Ophthalmology, 1993, 100, 949-954.	2.5	47
23	Retinal Blood Flow and Retinal Blood Oxygen Saturation in Mild to Moderate Diabetic Retinopathy. , 2015, 56, 6796.		47
24	PGC-1 β Signaling Coordinates Susceptibility to Metabolic and Oxidative Injury in the Inner Retina. American Journal of Pathology, 2014, 184, 1017-1029.	1.9	42
25	Preclinical development and ocular biodistribution of gemini-DNA nanoparticles after intravitreal and topical administration: Towards non-invasive glaucoma gene therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1637-1647.	1.7	41
26	Proteomics Analyses of Activated Human Optic Nerve Head Lamina Cribrosa Cells following Biomechanical Strain. , 2012, 53, 3806.		40
27	Lamina Cribrosa Pore Shape and Size as Predictors of Neural Tissue Mechanical Insult. , 2017, 58, 5336.		40
28	Pharmacologic inhibition of reactive gliosis blocks TNF- α -mediated neuronal apoptosis. Cell Death and Disease, 2016, 7, e2386-e2386.	2.7	39
29	Reconstruction of human optic nerve heads for finite element modeling. Technology and Health Care, 2005, 13, 313-29.	0.5	39
30	Retinal Blood Flow and Vascular Reactivity in Chronic Smokers. , 2014, 55, 4266.		34
31	Retinal arteriolar and capillary vascular reactivity in response to isoxic hypercapnia. Experimental Eye Research, 2008, 87, 535-542.	1.2	32
32	Comparison of Heidelberg Retina Tomograph II and Retinal Thickness Analyzer in the Assessment of Diabetic Macular Edema. , 2004, 45, 610.		31
33	Anterior Optic Nerve Capillary Blood Flow Response to Diurnal Variation of Mean Ocular Perfusion Pressure in Early Untreated Primary Open-Angle Glaucoma. , 2005, 46, 4581.		31
34	Retinal Arteriolar Vascular Reactivity in Untreated and Progressive Primary Open-Angle Glaucoma. , 2010, 51, 2043.		31
35	Relationship between retinal blood flow and arterial oxygen. Journal of Physiology, 2016, 594, 625-640.	1.3	31
36	Aqueous humour concentrations of TGF β 1, PLGF and FGF β 1 and total retinal blood flow in patients with early non-proliferative diabetic retinopathy. Acta Ophthalmologica, 2017, 95, e206-e211.	0.6	27

#	ARTICLE	IF	CITATIONS
37	A Prototype Hyperspectral System With a Tunable Laser Source for Retinal Vessel Imaging. , 2013, 54, 5163.		24
38	A Mouse Model of Chronic Ocular Hypertension Induced by Circumlimbal Suture. , 2017, 58, 353.		23
39	Novel methodology to comprehensively assess retinal arteriolar vascular reactivity to hypercapnia. Microvascular Research, 2006, 72, 101-107.	1.1	22
40	Human Lamina Cribrosa Insertion and Age. , 2012, 53, 6870.		22
41	Evaluation of FASTPAC : a new strategy for threshold estimation with the Humphrey Field Analyser. Graefe's Archive for Clinical and Experimental Ophthalmology, 1993, 231, 465-469.	1.0	19
42	Variability and Repeatability of Quantitative, Fourier-Domain Optical Coherence Tomography Doppler Blood Flow in Young and Elderly Healthy Subjects. Investigative Ophthalmology and Visual Science, 2014, 55, 7716-7725.	3.3	19
43	Biomechanical insult switches PEA-15 activity to uncouple its anti-apoptotic function and promote erk mediated tissue remodeling. Experimental Cell Research, 2016, 340, 283-294.	1.2	18
44	The impact of hypercapnia on retinal capillary blood flow assessed by scanning laser Doppler flowmetry. Microvascular Research, 2005, 69, 149-155.	1.1	17
45	Twenty-four hour intraocular pressure monitoring with the SENSIMED Triggerfish contact lens: effect of body posture during sleep. British Journal of Ophthalmology, 2017, 101, 1323-1328.	2.1	17
46	Prospective study design for the Heidelberg retina tomograph: the effect of change in focus setting. Graefe's Archive for Clinical and Experimental Ophthalmology, 1996, 234, 306-310.	1.0	15
47	Retinal Oxygen Saturation in Patients with Primary Open-angle Glaucoma Using a Non-flash Hyperspectral Camera. Current Eye Research, 2017, 42, 557-561.	0.7	14
48	Comparison of laser and circumlimbal suture induced elevation of intraocular pressure in albino CD-1 mice. PLoS ONE, 2017, 12, e0189094.	1.1	14
49	Establishment and Characterization of an Acute Model of Ocular Hypertension by Laser-Induced Occlusion of Episcleral Veins. , 2017, 58, 3879.		13
50	Glaucoma update: epidemiology and new approaches to medical management. Ophthalmic and Physiological Optics, 1998, 18, 126-132.	1.0	12
51	Agreement of the Heidelberg Retina Tomograph II Macula Edema Module With Fundus Biomicroscopy in Diabetic Maculopathy. JAMA Ophthalmology, 2006, 124, 337.	2.6	11
52	Retinal blood oxygen saturation and aqueous humour biomarkers in early diabetic retinopathy. Acta Ophthalmologica, 2019, 97, e673-e679.	0.6	11
53	The Association Between Diurnal Variation of Optic Nerve Head Topography and Intraocular Pressure and Ocular Perfusion Pressure in Untreated Primary Open-angle Glaucoma. Journal of Glaucoma, 2011, 20, 44-50.	0.8	9
54	Assessment of total retinal blood flow using Doppler Fourier Domain Optical Coherence Tomography during systemic hypercapnia and hypocapnia. Physiological Reports, 2014, 2, e12046.	0.7	9

#	ARTICLE	IF	CITATIONS
55	Grader learning effect and reproducibility of Doppler Spectralâ€Domain Optical Coherence Tomography derived retinal blood flow measurements. <i>Acta Ophthalmologica</i> , 2014, 92, e630-6.	0.6	4
56	Interactions Between Factors Influencing Optic Nerve Head Biomechanics. , 2007, , .		4
57	The Effect of Nonlinear Scleral Properties on Optic Nerve Head Biomechanics. , 2007, , .		2
58	Post-Examination Processing in the SITA Standard Algorithm Compromises the Advantage of a Faster Patient Testing Time. <i>Annals of Ophthalmology</i> , 2005, 37, 091-094.	0.0	0