# John G Flanagan

List of Publications by Year
in descending order

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|---|---|---|---|
| 58<br>papers | 3,410<br>citations | 218592<br>26<br>h-index | 276775<br>41<br>g-index |
| 58<br>all docs | 58<br>docs citations | 58<br>times ranked | 2504<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Solving neurodegeneration: common mechanisms and strategies for new treatments. Molecular Neurodegeneration, 2022, 17, 23. | 4.4 | 83 |
| 2 | Retinal blood oxygen saturation and aqueous humour biomarkers in early diabetic retinopathy. Acta Ophthalmologica, 2019, 97, e673-e679. | 0.6 | 11 |
| 3 | 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 |
| 4 | 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 |
| 5 | Retinal Oxygen Saturation in Patients with Primary Open-angle Glaucoma Using a Non-flash Hypespectral Camera. Current Eye Research, 2017, 42, 557-561. | 0.7 | 14 |
| 6 | Aqueous humour concentrations of TGFâ€Î², PLGF and FGFâ€1 and total retinal blood flow in patients with early nonâ€proliferative diabetic retinopathy. Acta Ophthalmologica, 2017, 95, e206-e211. | 0.6 | 27 |
| 7 | Establishment and Characterization of an Acute Model of Ocular Hypertension by Laser-Induced Occlusion of Episcleral Veins. , 2017, 58, 3879. | | 13 |
| 8 | Lamina Cribrosa Pore Shape and Size as Predictors of Neural Tissue Mechanical Insult. , 2017, 58, 5336. | | 40 |
| 9 | A Mouse Model of Chronic Ocular Hypertension Induced by Circumlimbal Suture. , 2017, 58, 353. | | 23 |
| 10 | Astrocyte-derived lipoxins A4 and B4 promote neuroprotection from acute and chronic injury. Journal of Clinical Investigation, 2017, 127, 4403-4414. | 3.9 | 69 |
| 11 | Comparison of laser and circumlimbal suture induced elevation of intraocular pressure in albino CD-1 mice. PLoS ONE, 2017, 12, e0189094. | 1.1 | 14 |
| 12 | Relationship between retinal blood flow and arterial oxygen. Journal of Physiology, 2016, 594, 625-640. | 1.3 | 31 |
| 13 | 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 |
| 14 | Pharmacologic inhibition of reactive gliosis blocks TNF-Î±-mediated neuronal apoptosis. Cell Death and Disease, 2016, 7, e2386-e2386. | 2.7 | 39 |
| 15 | Retinal Blood Flow and Retinal Blood Oxygen Saturation in Mild to Moderate Diabetic Retinopathy. , 2015, 56, 6796. | | 47 |
| 16 | Retinal Blood Flow and Vascular Reactivity in Chronic Smokers. , 2014, 55, 4266. | | 34 |
| 17 | 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 |
| 18 | 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 |

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|---|---|---|---|
| 19 | PGC-1Î± Signaling Coordinates Susceptibility to Metabolic and Oxidative Injury in the Inner Retina. American Journal of Pathology, 2014, 184, 1017-1029. | 1.9 | 42 |
| 20 | 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 |
| 21 | Grader learning effect and reproducibility of Doppler Spectralâ€Domain Optical Coherence Tomography derived retinal blood flow measurements. Acta Ophthalmologica, 2014, 92, e630-6. | 0.6 | 4 |
| 22 | A Prototype Hyperspectral System With a Tunable Laser Source for Retinal Vessel Imaging. , 2013, 54, 5163. | | 24 |
| 23 | Proteomics Analyses of Human Optic Nerve Head Astrocytes Following Biomechanical Strain. Molecular and Cellular Proteomics, 2012, 11, M111.012302. | 2.5 | 57 |
| 24 | Human Lamina Cribrosa Insertion and Age. , 2012, 53, 6870. | | 22 |
| 25 | Proteomics Analyses of Activated Human Optic Nerve Head Lamina Cribrosa Cells following Biomechanical Strain. , 2012, 53, 3806. | | 40 |
| 26 | 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 |
| 27 | 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 |
| 28 | Effects of Scleral Stiffness Properties on Optic Nerve Head Biomechanics. Annals of Biomedical Engineering, 2010, 38, 1586-1592. | 1.3 | 63 |
| 29 | Biaxial mechanical testing of human sclera. Journal of Biomechanics, 2010, 43, 1696-1701. | 0.9 | 114 |
| 30 | Vascular Reactivity of Optic Nerve Head and Retinal Blood Vessels in Glaucoma - A Review. Microcirculation, 2010, 17, no-no. | 1.0 | 82 |
| 31 | Retinal Arteriolar Vascular Reactivity in Untreated and Progressive Primary Open-Angle Glaucoma. , 2010, 51, 2043. | | 31 |
| 32 | 3D morphometry of the human optic nerve head. Experimental Eye Research, 2010, 90, 70-80. | 1.2 | 87 |
| 33 | Dimensions of the human sclera: Thickness measurement and regional changes with axial length. Experimental Eye Research, 2010, 90, 277-284. | 1.2 | 179 |
| 34 | Effect of Sleeping in a Head-Up Position on Intraocular Pressure in Patients with Glaucoma. Ophthalmology, 2010, 117, 1348-1351. | 2.5 | 67 |
| 35 | Strain Uniformity in Biaxial Specimens is Highly Sensitive to Attachment Details. Journal of Biomechanical Engineering, 2009, 131, 091003. | 0.6 | 67 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Retinal arteriolar and capillary vascular reactivity in response to isoxic hypercapnia. Experimental Eye Research, 2008, 87, 535-542. | 1.2 | 32 |
| 39 | Predicted extension, compression and shearing of optic nerve head tissues. Experimental Eye Research, 2007, 85, 312-322. | 1.2 | 159 |
| 40 | Interactions Between Factors Influencing Optic Nerve Head Biomechanics. , 2007, , . | | 4 |
| 41 | The Effect of Nonlinear Scleral Properties on Optic Nerve Head Biomechanics. , 2007, , . | | 2 |
| 42 | Novel methodology to comprehensively assess retinal arteriolar vascular reactivity to hypercapnia. Microvascular Research, 2006, 72, 101-107. | 1.1 | 22 |
| 43 | Agreement of the Heidelberg Retina Tomograph II Macula Edema Module With Fundus Biomicroscopy in Diabetic Maculopathy. JAMA Ophthalmology, 2006, 124, 337. | 2.6 | 11 |
| 44 | Retinal Hemodynamics in Early Diabetic Macular Edema. Diabetes, 2006, 55, 813-818. | 0.3 | 60 |
| 45 | Post-Examination Processing in the SITA Standard Algorithm Compromises the Advantage of a Faster Patient Testing Time. Annals of Ophthalmology, 2005, 37, 091-094. | 0.0 | 0 |
| 46 | Factors Influencing Optic Nerve Head Biomechanics. , 2005, 46, 4189. | | 453 |
| 47 | Reconstruction of human optic nerve heads for finite element modeling. Technology and Health Care, 2005, 13, 313-329. | 0.5 | 69 |
| 48 | 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 |
| 49 | Relative Change in Diurnal Mean Ocular Perfusion Pressure: A Risk Factor for the Diagnosis of Primary Open-Angle Glaucoma. , 2005, 46, 561. | | 86 |
| 50 | The impact of hypercapnia on retinal capillary blood flow assessed by scanning laser Doppler flowmetry. Microvascular Research, 2005, 69, 149-155. | 1.1 | 17 |
| 51 | Reconstruction of human optic nerve heads for finite element modeling. Technology and Health Care, 2005, 13, 313-29. | 0.5 | 39 |
| 52 | Comparison of Heidelberg Retina Tomograph II and Retinal Thickness Analyzer in the Assessment of Diabetic Macular Edema. , 2004, 45, 610. | | 31 |
| 53 | Finite Element Modeling of Optic Nerve Head Biomechanics. , 2004, 45, 4378. | | 286 |
| 54 | Variability and repeatability of retinal blood flow measurements using the Canon laser blood flowmeterâ˜† â˜†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 |

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|---|---|---|---|
| 55 | Glaucoma update: epidemiology and new approaches to medical management. Ophthalmic and Physiological Optics, 1998, 18, 126-132. | 1.0 | 12 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |