Jan M Provis

List of Publications by Year
in descending order

94 papers	7,065 citations	57631 44 h-index	64668 79 g-index
94 all docs	94 docs citations	94 times ranked	6062 citing authors

#	Article	IF	Citations
1	Anti-inflammatory and neuroprotective properties of the corticosteroid fludrocortisone in retinal degeneration. Experimental Eye Research, 2021, 212, 108765.	1.2	7
2	Preservation of the Foveal Avascular Zone in Achromatopsia Despite the Absence of a Fully Formed Pit. , 2020, 61, 52.		7
3	Ablation of C3 modulates macrophage reactivity in the outer retina during photo-oxidative damage. Molecular Vision, 2020, 26, 679-690.	1.1	1
4	Microglia-derived IL-1Î² promotes chemokine expression by MÃ¼ller cells and RPE in focal retinal degeneration. Molecular Neurodegeneration, 2017, 12, 31.	4.4	101
5	Photobiomodulation with 670Ânm light ameliorates MÃ¼ller cell-mediated activation of microglia and macrophages in retinal degeneration. Experimental Eye Research, 2017, 165, 78-89.	1.2	18
6	Retinal Macrophages Synthesize C3 and Activate Complement in AMD and in Models of Focal Retinal Degeneration. , 2017, 58, 2977.		95
7	A model of progressive photo-oxidative degeneration and inflammation in the pigmented C57BL/6J mouse retina. Experimental Eye Research, 2016, 147, 114-127.	1.2	70
8	The Role of Pyruvate in Protecting 661W Photoreceptor-Like Cells Against Light-Induced Cell Death. Current Eye Research, 2016, 41, 1473-1481.	0.7	16
9	Role of Chemokines in Shaping Macrophage Activity in AMD. Advances in Experimental Medicine and Biology, 2016, 854, 11-16.	0.8	13
10	Proteomic Analysis of Embryonic and Young Human Vitreous. , 2015, 56, 7036.		14
11	Spatiotemporal Cadence of Macrophage Polarisation in a Model of Light-Induced Retinal Degeneration. PLoS ONE, 2015, 10, e0143952.	1.1	43
12	A safety and feasibility study of the use of 670â€‰nm red light in premature neonates. Journal of Perinatology, 2015, 35, 493-496.	0.9	3
13	Identification of miRNAs in a Model of Retinal Degenerations. , 2015, 56, 1820.		27
14	Chemokine-mediated inflammation in the degenerating retina is coordinated by MÃ¼ller cells, activated microglia, and retinal pigment epithelium. Journal of Neuroinflammation, 2015, 12, 8.	3.1	117
15	Retinal microglia: Just bystander or target for therapy?. Progress in Retinal and Eye Research, 2015, 45, 30-57.	7.3	433
16	Integral-geometry characterization of photobiomodulation effects on retinal vessel morphology. Biomedical Optics Express, 2014, 5, 2317.	1.5	8
17	The paradoxical effects of light on photoreceptors. Clinical and Experimental Ophthalmology, 2014, 42, 513-514.	1.3	0
18	A new theoretical approach to improving face recognition in disorders of central vision: Face caricaturing. Journal of Vision, 2014, 14, 12-12.	0.1	18

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19	II.A. Development and Developmental Disorders of Vitreous. , 2014, , 95-111.		2
20	Synthesis and Propagation of Complement C3 by Microglia/Monocytes in the Aging Retina. PLoS ONE, 2014, 9, e93343.	1.1	53
21	Differential Effects of 670 and 830 nm Red near Infrared Irradiation Therapy: A Comparative Study of Optic Nerve Injury, Retinal Degeneration, Traumatic Brain and Spinal Cord Injury. PLoS ONE, 2014, 9, e104565.	1.1	39
22	Red/near-infrared irradiation therapy for treatment of central nervous system injuries and disorders. Reviews in the Neurosciences, 2013, 24, 205-26.	1.4	71
23	670Ânm light mitigates oxygen-induced degeneration in C57BL/6J mouse retina. BMC Neuroscience, 2013, 14, 125.	0.8	37
24	Adaptation of the central retina for high acuity vision: Cones, the fovea and the avascular zone. Progress in Retinal and Eye Research, 2013, 35, 63-81.	7.3	210
25	670nm Photobiomodulation as a Novel Protection against Retinopathy of Prematurity: Evidence from Oxygen Induced Retinopathy Models. PLoS ONE, 2013, 8, e72135.	1.1	47
26	Evaluation of Normal Human Foveal Development Using Optical Coherence Tomography and Histologic Examination. JAMA Ophthalmology, 2012, 130, 1291.	2.6	87
27	Small interfering RNA-mediated suppression of Ccl2 in MÃ¼ller cells attenuates microglial recruitment and photoreceptor death following retinal degeneration. Journal of Neuroinflammation, 2012, 9, 221.	3.1	113
28	670-nm light treatment reduces complement propagation following retinal degeneration. Journal of Neuroinflammation, 2012, 9, 257.	3.1	52
29	Complement Activation in Retinal Degeneration. Advances in Experimental Medicine and Biology, 2012, 723, 31-36.	0.8	4
30	What Determines Motor Neuron Number? Slow Scaling of Facial Motor Neuron Numbers With Body Mass in Marsupials and Primates. Anatomical Record, 2012, 295, 1683-1691.	0.8	23
31	Morphological, functional and gene expression analysis of the hyperoxic mouse retina. Experimental Eye Research, 2011, 92, 306-314.	1.2	4
32	Differential effects of TGFâ€Î²2 and FGFâ€2 on in vitro proliferation and migration of primate retinal endothelial and MÃ¼ller cells. Acta Ophthalmologica, 2011, 89, e263-8.	0.6	19
33	Analysis of Complement Expression in Light-Induced Retinal Degeneration: Synthesis and Deposition of C3 by Microglia/Macrophages Is Associated with Focal Photoreceptor Degeneration. , 2011, 52, 5347.		84
34	DICER1 deficit induces Alu RNA toxicity in age-related macular degeneration. Nature, 2011, 471, 325-330.	13.7	573
35	Early Focal Expression of the Chemokine Ccl2 by MÃ¼ller Cells during Exposure to Damage-Inducing Bright Continuous Light. , 2011, 52, 2379.		86
36	The Cellular Expression of Antiangiogenic Factors in Fetal Primate Macula. , 2010, 51, 4298.		42

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37	Microstructure and Network Organization of the Microvasculature in the Human Macula. , 2010, 51, 6735.		90
38	Brief Exposure to Damaging Light Causes Focal Recruitment of Macrophages, and Long-Term Destabilization of Photoreceptors in the Albino Rat Retina. Current Eye Research, 2010, 35, 631-643.	0.7	90
39	Photoreceptor and ganglion cell topographies correlate with information convergence and high acuity regions in the adult pigeon (Columba livia) retina. Journal of Comparative Neurology, 2009, 517, 711-722.	0.9	48
40	Differential gene expression in the developing human macula: microarray analysis using rare tissue samples. Journal of Ocular Biology, Diseases, and Informatics, 2009, 2, 176-189.	0.2	8
41	Stem Cell Activity in the Developing Human Cornea. Stem Cells, 2009, 27, 2781-2792.	1.4	45
42	Cone Degeneration in Aging and Age-Related Macular Degeneration. JAMA Ophthalmology, 2009, 127, 483.	2.6	74
43	Differential expression of anti-angiogenic factors and guidance genes in the developing macula. Molecular Vision, 2009, 15, 45-59.	1.1	48
44	Gradients of Eph-A6 expression in primate retina suggest roles in both vascular and axon guidance. Molecular Vision, 2009, 15, 2649-62.	1.1	17
45	The locations of mitochondria in mammalian photoreceptors: Relation to retinal vasculature. Brain Research, 2008, 1189, 58-69.	1.1	127
46	Rod photoreceptor differentiation in fetal and infant human retina. Experimental Eye Research, 2008, 87, 415-426.	1.2	111
47	Expression and Role of the Early-Response GeneOxr1in the Hyperoxia-Challenged Mouse Retina. , 2008, 49, 4561.		40
48	Muller cell expression of glutamate cycle related proteins and anti-apoptotic proteins in early human retinal development. British Journal of Ophthalmology, 2006, 90, 223-228.	2.1	12
49	Endothelial cell proliferation in the choriocapillaris during human retinal differentiation. British Journal of Ophthalmology, 2006, 90, 1046-1051.	2.1	6
50	Photoreceptor Stability and Degeneration in Mammalian Retina: Lessons from the Edge. , 2005, , 149-165.		8
51	Immunology and Age-Related Macular Degeneration. , 2005, , 25-44.		2
52	Anatomy and development of the macula: specialisation and the vulnerability to macular degeneration. Australasian journal of optometry, The, 2005, 88, 269-281.	0.6	160
53	Gradients of cone differentiation and FGF expression during development of the foveal depression in macaque retina. Visual Neuroscience, 2005, 22, 447-459.	0.5	56
54	The role of opsin expression and apoptosis in determination of cone types in human retina. Experimental Eye Research, 2004, 78, 1143-1154.	1.2	52

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55	Distribution of short-wavelength-sensitive cones in human fetal and postnatal retina: early development of spatial order and density profiles. Vision Research, 2004, 44, 2019-2026.	0.7	47
56	Differential distribution of fibroblast growth factor receptors (FGFRs) on foveal cones: FGFR-4 is an early marker of cone photoreceptors. Molecular Vision, 2004, 10, 1-14.	1.1	19
57	Muller cells express the neuronal progenitor cell marker nestin in both differentiated and undifferentiated human foetal retina. Clinical and Experimental Ophthalmology, 2003, 31, 246-249.	1.3	75
58	VEGF expression by ganglion cells in central retina before formation of the foveal depression in monkey retina: Evidence of developmental hypoxia. Journal of Comparative Neurology, 2003, 462, 42-54.	0.9	55
59	Immunological and Aetiological Aspects of Macular Degeneration. Progress in Retinal and Eye Research, 2001, 20, 385-414.	7.3	425
60	Development of the Primate Retinal Vasculature. Progress in Retinal and Eye Research, 2001, 20, 799-821.	7.3	328
61	Triamcinolone acetonide modulates permeability and intercellular adhesion molecule-1 (ICAM-1) expression of the ECV304 cell line: implications for macular degeneration. Clinical and Experimental Immunology, 2000, 121, 458-465.	1.1	147
62	The Human Hyaloid System: Cell Death and Vascular Regression. Experimental Eye Research, 2000, 70, 767-776.	1.2	90
63	Development of the foveal avascular zone. Ophthalmology, 2000, 107, 1026.	2.5	12
64	Mechanisms of photoreceptor death and survival in mammalian retina. Progress in Retinal and Eye Research, 1999, 18, 689-735.	7.3	257
65	Apoptosis during development of the human retina: Relationship to foveal development and retinal synaptogenesis. , 1999, 413, 198-208.		43
66	The Human Hyaloid System: Cellular Phenotypes and Inter-relationships. Experimental Eye Research, 1999, 68, 553-563.	1.2	46
67	Astrocyte Proliferation During Development of the Human Retinal Vasculature. Experimental Eye Research, 1999, 69, 511-523.	1.2	43
68	Development of the Human Retinal Vasculature: Cellular Relations and VEGF Expression. Experimental Eye Research, 1997, 65, 555-568.	1.2	187
69	Neuropeptide expression in the human fetal hyaloid vasculature and vitreous. Australian and New Zealand Journal of Ophthalmology, 1996, 24, 72-74.	0.4	4
70	Human retinal microglia: Expression of immune markers and relationship to theGlia limitans. Glia, 1995, 14, 243-256.	2.5	81
71	Ontogeny and cellular expression of MHC and leucocyte antigens in human retina. Glia, 1995, 15, 458-470.	2.5	38
72	Development of microglial topography in human retina. Journal of Comparative Neurology, 1995, 363, 53-68.	0.9	89

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73	Modulation of MHC Class II Expression in the Absence of Lymphocytic Infiltrates in AlzheimerÊ¼s Retinae. Journal of Neuropathology and Experimental Neurology, 1994, 53, 150-157.	0.9	24
74	INTERMEDIATE FILAMENT EXPRESSION IN HUMAN RETINAL MACROGLIA. Retina, 1994, 14, 65-74.	1.0	73
75	Human retinal microglia express phenotypic characteristics in common with dendritic antigen-presenting cells. Journal of Neuroimmunology, 1993, 45, 183-191.	1.1	67
76	Evidence of photoreceptor migration during early foveal development: A quantitative analysis of human fetal retinae. Visual Neuroscience, 1992, 8, 505-514.	0.5	91
77	NADPH-diaphorase reactivity in adult and developing cat retinae. Cell and Tissue Research, 1991, 265, 371-379.	1.5	33
78	Antibodies to human leucocyte antigens indicate subpopulations of microglia in human retina. Visual Neuroscience, 1991, 7, 383-388.	0.5	59
79	Angiogenesis in normal human retinal development the involvement of astrocytes and macrophages. Graefe's Archive for Clinical and Experimental Ophthalmology, 1990, 228, 255-263.	1.0	63
80	Early differentiation of ganglion, amacrine, bipolar, and muller cells in the developing fovea of human retina. Journal of Comparative Neurology, 1990, 291, 203-219.	0.9	49
81	NADPH-diaphorase neurones of human retinae have a uniform topographical distribution. Visual Neuroscience, 1990, 4, 619-623.	0.5	40
82	A distinctive soma size gradient among catecholaminergic neurones of human retinae. Brain Research, 1990, 527, 69-75.	1.1	23
83	Autoantibodies to retinal astrocytes associated with age-related macular degeneration. Graefe's Archive for Clinical and Experimental Ophthalmology, 1990, 228, 270-274.	1.0	119
84	Somatostatinergic neurones of the developing human and cat retinae. Neuroscience Letters, 1989, 104, 209-216.	1.0	39
85	Morphology of intraretinal new vessels in the PETH rat. Graefe's Archive for Clinical and Experimental Ophthalmology, 1988, 226, 576-582.	1.0	7
86	Patterns of cell death in the ganglion cell layer of the human fetal retina. Journal of Comparative Neurology, 1987, 259, 237-246.	0.9	57
87	Age-related macular degeneration: ultrastructural studies of the relationship of leucocytes to angiogenesis. Graefe's Archive for Clinical and Experimental Ophthalmology, 1987, 225, 70-76.	1.0	96
88	Cell death in the development of the human retina: phagocytosis of pyknotic and apoptotic bodies by retinal cells. Graefe's Archive for Clinical and Experimental Ophthalmology, 1986, 224, 549-553.	1.0	103
89	RETINAL DEVELOPMENT IN HUMANS: THE ROLES OF DIFFERENTIAL GROWTH RATES, CELL MIGRATION AND NATURALLY OCCURRING CELL DEATH. Australian and New Zealand Journal of Ophthalmology, 1985, 13, 125-133.	0.4	17
90	VISUAL DEPRIVATION IN INFANCY AND CHILDHOOD: CLINICAL ASPECTS. Australian and New Zealand Journal of Ophthalmology, 1985, 13, 279-286.	0.4	12

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91	Development of the human retina: Patterns of cell distribution and redistribution in the ganglion cell layer. Journal of Comparative Neurology, 1985, 233, 429-451.	0.9	203
92	Human fetal optic nerve: Overproduction and elimination of retinal axons during development. Journal of Comparative Neurology, 1985, 238, 92-100.	0.9	194
93	The distribution and size of ganglion cells in the retina of the pigmented rabbit: A quantitative analysis. Journal of Comparative Neurology, 1979, 185, 121-137.	0.9	137
94	The organization of the facial nucleus of the brush-tailed possum (Trichosurus vulpecula). Journal of Comparative Neurology, 1977, 172, 177-188.	0.9	42