Peter Wiedemann

List of Publications by Year
in descending order

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110 papers	8,250 citations	126708 33 h-index	54797 84 g-index
111 all docs	111 docs citations	111 times ranked	8717 citing authors

#	Article	IF	Citations
1	MÃ¼ller cells and astrocytes in tractional macular disorders. Progress in Retinal and Eye Research, 2022, 86, 100977.	7.3	29
2	Primate fovea. , 2022, , 83-117.		1
3	Introduction: Optical properties of the retina. , 2022, , 1-34.		0
4	Comparison of the nonmammalian and primate fovea. , 2022, , 119-121.		0
5	Retinal glia. , 2022, , 51-66.		0
6	Development of the fovea. , 2022, , 123-138.		0
7	Tractional disorders of the human fovea. , 2022, , 139-185.		0
8	The epidemiology of uveal melanoma in Germany: a nationwide report of incidence and survival between 2009 and 2015. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, 260, 1723-1731.	1.0	5
9	Age- and sex-related variations of individual retinal layer thickness in the foveal center of healthy eyes. Experimental Eye Research, 2022, 219, 109038.	1.2	0
10	Intravitreal 5-Fluorouracil and Heparin to Prevent Proliferative Vitreoretinopathy. Ophthalmology, 2022, 129, 1129-1141.	2.5	10
11	Importance of continuous treatment with intravitreal aflibercept injections in patients with neovascular age-related macular degenerationâ€"12-month post hoc analysis of the PERSEUS real-world evidence study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2021, 259, 601-611.	1.0	10
12	Different modes of full-thickness macular hole formation. Experimental Eye Research, 2021, 202, 108393.	1.2	23
13	Degenerative lamellar macular holes: tractional development and morphological alterations. International Ophthalmology, 2021, 41, 1203-1221.	0.6	14
14	Type of culture medium determines properties of cultivated retinal endothelial cells: induction of substantial phenotypic conversion by standard DMEM. Heliyon, 2021, 7, e06037.	1.4	6
15	PERSEUS 24-month analysis: a prospective non-interventional study to assess the effectiveness of intravitreal aflibercept in routine clinical practice in Germany in patients with neovascular age-related macular degeneration. Graefe's Archive for Clinical and Experimental Ophthalmology, 2021, 259, 2213-2223.	1.0	10
16	Foveal regeneration after resolution of cystoid macular edema without and with internal limiting membrane detachment: presumed role of glial cells for foveal structure stabilization. International Journal of Ophthalmology, 2021, 14, 818-833.	0.5	4
17	General health of patients with diabetic macular edemaâ€"The LIPSIA study. PLoS ONE, 2021, 16, e0252321.	1.1	2
18	Foveal configurations with disappearance of the foveal pit in eyes with macular pucker: Presumed role of MÃ¼ller cells in the formation of foveal herniation. Experimental Eye Research, 2021, 207, 108604.	1.2	10

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19	Neuroprotective effects of glial mediators in interactions between retinal neurons and MÃ¼ller cells. Experimental Eye Research, 2021, 209, 108689.	1.2	6
20	Hypoxic and osmotic expression of Kir2.1 potassium channels in retinal pigment epithelial cells: Contribution to vascular endothelial growth factor expression. Experimental Eye Research, 2021, 211, 108741.	1.2	2
21	Pigment Epithelium-Derived Factor (PEDF) Receptors Are Involved in Survival of Retinal Neurons. International Journal of Molecular Sciences, 2021, 22, 369.	1.8	13
22	Spontaneous closure of small fullâ€thickness macular holes: Presumed role of MÃ¼ller cells. Acta Ophthalmologica, 2020, 98, e447-e456.	0.6	43
23	Morphology of partial-thickness macular defects: presumed roles of MÃ¼ller cells and tissue layer interfaces of low mechanical stability. International Journal of Retina and Vitreous, 2020, 6, 28.	0.9	28
24	Two different populations of MÃ¼ller cells stabilize the structure of the fovea: an optical coherence tomography study. International Ophthalmology, 2020, 40, 2931-2948.	0.6	32
25	Different modes of foveal regeneration after closure of full-thickness macular holes by (re)vitrectomy and autologous platelet concentrate. International Journal of Ophthalmology, 2020, 13, 36-48.	0.5	19
26	Osmotic and hypoxic induction of osteopontin in retinal pigment epithelial cells: Involvement of purinergic receptor signaling. Molecular Vision, 2020, 26, 188-203.	1.1	5
27	Osmotic regulation of aquaporin-8 expression in retinal pigment epithelial cells in vitro: Dependence on K channel activation. Molecular Vision, 2020, 26, 797-817.	1.1	1
28	One-Year Safety and Performance Assessment of the Argus II Retinal Prosthesis. JAMA Ophthalmology, 2019, 137, 896.	1.4	24
29	Agreement and Repeatability of Noncycloplegic and Cycloplegic Wavefront-based Autorefraction in Children. Optometry and Vision Science, 2019, 96, 879-889.	0.6	18
30	Corneal clearance and central endothelial cell repopulation despite graft detachment after Descemet membrane endothelial keratoplasty. GMS Ophthalmology Cases, 2019, 9, Doc14.	0.1	2
31	Osmotic induction of cyclooxygenase-2 in RPE cells: Stimulation of inflammasome activation. Molecular Vision, 2019, 25, 329-344.	1.1	5
32	MÃ¼ller glial cells of the primate foveola: An electron microscopical study. Experimental Eye Research, 2018, 167, 110-117.	1.2	63
33	The primate fovea: Structure, function and development. Progress in Retinal and Eye Research, 2018, 66, 49-84.	7.3	221
34	The <scp>RELATION</scp> study: efficacy and safety of ranibizumab combined with laser photocoagulation treatment versus laser monotherapy in <scp>NPDR</scp> and <scp>PDR</scp> patients with diabetic macular oedema. Acta Ophthalmologica, 2018, 96, e377-e385.	0.6	13
35	Aflibercept for Patients with Neovascular Age-Related Macular Degeneration in Routine Clinical Practice in Germany. Ophthalmology Retina, 2018, 2, 539-549.	1.2	54
36	Hypoxic expression of NLRP3 and VEGF in cultured retinal pigment epithelial cells: contribution of P2Y2 receptor signaling. Purinergic Signalling, 2018, 14, 471-484.	1.1	19

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37	In vitro drusen model: three-dimensional spheroid culture of retinal pigment epithelial cells. Journal of Cell Science, 2018, 132, .	1.2	13
38	Firework-Related Eye Trauma in Germany. Current Eye Research, 2018, 43, 1522-1528.	0.7	9
39	Osmotic and hypoxic induction of the complement factor C9 in cultured human retinal pigment epithelial cells: Regulation of VEGF and NLRP3 expression. Molecular Vision, 2018, 24, 518-535.	1.1	14
40	Activator protein-1 contributes to the NaCl-induced expression of VEGF and PlGF in RPE cells. Molecular Vision, 2018, 24, 647-666.	1.1	5
41	Macular cystic changes as predictive factor for the recurrence of macular oedema in branch retinal vein occlusion. Acta Ophthalmologica, 2017, 95, e592-e596.	0.6	7
42	Global causes of blindness and distance vision impairment 1990â€“2020: a systematic review and meta-analysis. The Lancet Global Health, 2017, 5, e1221-e1234.	2.9	2,053
43	MÃ¼ller Cell-Derived PEDF Mediates Neuroprotection via STAT3 Activation. Cellular Physiology and Biochemistry, 2017, 44, 1411-1424.	1.1	25
44	Simultaneous Bilateral Cataract Surgery in Outreach Surgical Camps. Ophthalmology and Eye Diseases, 2017, 9, 117917211770173.	1.2	5
45	Automated detection of the choroid boundary within OCT image data using quadratic measure filters. Journal of Biomedical Optics, 2017, 22, 025004.	1.4	3
46	Osmotic regulation of expression in RPE cells: The involvement of purinergic receptor signaling. Molecular Vision, 2017, 23, 116-130.	1.1	8
47	Cataract surgery with intraocular lens implantation in children aged 5-15 in local anaesthesia: visual outcomes and complications. Pan African Medical Journal, 2016, 24, 200.	0.3	3
48	Biometry and visual function of a healthy cohort in Leipzig, Germany. BMC Ophthalmology, 2016, 16, 79.	0.6	17
49	P2Y1 Receptor Signaling Contributes to High Salt-Induced Priming of the NLRP3 Inflammasome in Retinal Pigment Epithelial Cells. PLoS ONE, 2016, 11, e0165653.	1.1	34
50	Osmotic induction of placental growth factor in retinal pigment epithelial cells in vitro: contribution of NFAT5 activity. Molecular Biology Reports, 2016, 43, 803-814.	1.0	9
51	Clinical Efficacy and Safety of Ranibizumab Versus Dexamethasone for Central Retinal Vein Occlusion (COMRADE C): A European Label Study. American Journal of Ophthalmology, 2016, 169, 258-267.	1.7	66
52	Impaired Purinergic Regulation of the Glial (MÃ¼ller) Cell Volume in the Retina of Transgenic Rats Expressing Defective Polycystin-2. Neurochemical Research, 2016, 41, 1784-1796.	1.6	10
53	Osmotic expression of aldose reductase in retinal pigment epithelial cells: involvement of NFAT5. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 2387-2400.	1.0	10
54	The ultrastructure of rabbit sclera after scleral crosslinking with riboflavin and blue light of different intensities. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 1567-1577.	1.0	14

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55	Endothelins Inhibit Osmotic Swelling of Rat Retinal Glial and Bipolar Cells by Activation of Growth Factor Signaling. Neurochemical Research, 2016, 41, 2598-2606.	1.6	5
56	Ischemic regulation of brain-derived neurotrophic factor-mediated cell volume and TrkB expression in glial (MÃ¼ller) and bipolar cells of the rat retina. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 497-503.	1.0	3
57	Sigma-1 receptor activation inhibits osmotic swelling of rat retinal glial (MÃ¼ller) cells by transactivation of glutamatergic and purinergic receptors. Neuroscience Letters, 2016, 610, 13-18.	1.0	15
58	Scleral cross-linking by riboflavin and blue light application in young rabbits: damage threshold and eye growth inhibition. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 109-122.	1.0	17
59	Osmotic Induction of Angiogenic Growth Factor Expression in Human Retinal Pigment Epithelial Cells. PLoS ONE, 2016, 11, e0147312.	1.1	30
60	Intake of dietary salt and drinking water: Implications for the development of age-related macular degeneration. Molecular Vision, 2016, 22, 1437-1454.	1.1	12
61	Modified Small Incision Cataract Surgery and Intraocular Lens Implantation in HIV Patients. Ophthalmology and Eye Diseases, 2015, 7, OED.S31013.	1.2	2
62	Damage threshold in adult rabbit eyes after scleral cross-linking by riboflavin/blue light application. Experimental Eye Research, 2015, 139, 37-47.	1.2	14
63	Doseâ€dependent collagen crossâ€linking of rabbit scleral tissue by blue light and riboflavin treatment probed by dynamic shear rheology. Acta Ophthalmologica, 2015, 93, e328-36.	0.6	12
64	Regulation of the hyperosmotic induction of aquaporin 5 and VEGF in retinal pigment epithelial cells: involvement of NFAT5. Molecular Vision, 2015, 21, 360-77.	1.1	33
65	Gene expression regulation in retinal pigment epithelial cells induced by viral RNA and viral/bacterial DNA. Molecular Vision, 2015, 21, 1000-16.	1.1	9
66	Efficient Photodynamic Therapy on Human Retinoblastoma Cell Lines. PLoS ONE, 2014, 9, e87453.	1.1	23
67	Reply to rebuttal: early peripheral laser photocoagulation of nonperfused retina improves vision in patients with central retinal vein occlusion (results of a proof of concept study). Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 1691-1692.	1.0	0
68	Enhanced survival of retinal ganglion cells is mediated by MÃ¼ller glial cell-derived PEDF. Experimental Eye Research, 2014, 127, 206-214.	1.2	37
69	Parametric model for the 3D reconstruction of individual fovea shape from OCT data. Experimental Eye Research, 2014, 119, 19-26.	1.2	19
70	Effects of the vegetable polyphenols epigallocatechin-3-gallate, luteolin, apigenin, myricetin, quercetin, and cyanidin in primary cultures of human retinal pigment epithelial cells. Molecular Vision, 2014, 20, 242-58.	1.1	47
71	Treatment patterns, visual acuity and quality-of-life outcomes of the WAVE study - A noninterventional study of ranibizumab treatment for neovascular age-related macular degeneration in Germany. Acta Ophthalmologica, 2013, 91, 540-546.	0.6	134
72	MÃ¼ller Glial Cells in Retinal Disease. Ophthalmologica, 2012, 227, 1-19.	1.0	325

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73	Physiologic Properties of MÃ¼ller Cells from Human Eyes Affected with Uveal Melanoma. , 2012, 53, 4170.		12
74	Pigment Epithelium-Derived Factor Released by MÃ¼ller Glial Cells Exerts Neuroprotective Effects on Retinal Ganglion Cells. Neurochemical Research, 2012, 37, 1524-1533.	1.6	59
75	Involvement of oxidative stress and mitochondrial dysfunction in the osmotic swelling of retinal glial cells from diabetic rats. Experimental Eye Research, 2011, 92, 87-93.	1.2	36
76	Purinergic signaling involved in MÃ¼ller cell function in the mammalian retina. Progress in Retinal and Eye Research, 2011, 30, 324-342.	7.3	71
77	Multifunctionalized Electrospun Silk Fibers Promote Axon Regeneration in the Central Nervous System. Advanced Functional Materials, 2011, 21, 4232-4242.	7.8	60
78	Reactive glial cells: increased stiffness correlates with increased intermediate filament expression. FASEB Journal, 2011, 25, 624-631.	0.2	148
79	Deletion of aquaporinâ€4 renders retinal glial cells more susceptible to osmotic stress. Journal of Neuroscience Research, 2010, 88, 2877-2888.	1.3	59
80	Endogenous purinergic signaling is required for osmotic volume regulation of retinal glial cells. Journal of Neurochemistry, 2010, 112, 1261-1272.	2.1	49
81	Retinal Gene Expression and Mulˆller Cell Responses after Branch Retinal Vein Occlusion in the Rat. , 2009, 50, 2359.		90
82	Cellular signaling and factors involved in MÃ¼ller cell gliosis: Neuroprotective and detrimental effects. Progress in Retinal and Eye Research, 2009, 28, 423-451.	7.3	607
83	Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. Experimental Eye Research, 2008, 87, 385-393.	1.2	43
84	Regulation of Pigment Epitheliumâ€"Derived Factor Production and Release by Retinal Glial (Mulˆller) Cells under Hypoxia. , 2008, 49, 5161.		43
85	Positive Feedback Regulation between MMP-9 and VEGF in Human RPE Cells. , 2007, 48, 4360.		153
86	Ectonucleotidases in MÃ¼ller glial cells of the rodent retina: Involvement in inhibition of osmotic cell swelling. Purinergic Signalling, 2007, 3, 423-433.	1.1	43
87	MÃ¼ller cells in the healthy and diseased retina. Progress in Retinal and Eye Research, 2006, 25, 397-424.	7.3	1,500
88	Glutamate release by neurons evokes a purinergic inhibitory mechanism of osmotic glial cell swelling in the rat retina: Activation by neuropeptide Y. Journal of Neuroscience Research, 2006, 83, 538-550.	1.3	93
89	Diabetes Alters Osmotic Swelling Characteristics and Membrane Conductance of Glial Cells in Rat Retina. Diabetes, 2006, 55, 633-639.	0.3	184
90	Glial Cell Reactivity in a Porcine Model of Retinal Detachment. , 2006, 47, 2161.		124

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91	Ischemia-Reperfusion Causes Exudative Detachment of the Rabbit Retina. , 2005, 46, 2592.		29
92	Resensitization of P2Y Receptors by Growth Factorâ€“Mediated Activation of the Phosphatidylinositol-3 Kinase in Retinal Glial Cells. , 2005, 46, 1525.		32
93	The Glucocorticoid Triamcinolone Acetonide Inhibits Osmotic Swelling of Retinal Glial Cells via Stimulation of Endogenous Adenosine Signaling. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 1036-1045.	1.3	78
94	Pathomechanisms of Cystoid Macular Edema. Ophthalmic Research, 2004, 36, 241-249.	1.0	250
95	Selective staining by vital dyes of MÃ¼ller glial cells in retinal wholemounts. Glia, 2004, 45, 59-66.	2.5	75
96	A potassium channel-linked mechanism of glial cell swelling in the postischemic retina. Molecular and Cellular Neurosciences, 2004, 26, 493-502.	1.0	200
97	P2Y Receptor-Mediated Stimulation of MulˆIler Glial Cell DNA Synthesis: Dependence on EGF and PDGF Receptor Transactivation. , 2003, 44, 1211.		101
98	Experimental retinal detachment causes widespread and multilayered degeneration in rabbit retina. Journal of Neurocytology, 2002, 30, 379-390.	1.6	58
99	Upregulation of extracellular ATP-induced MÃ¼ller cell responses in a dispase model of proliferative vitreoretinopathy. Investigative Ophthalmology and Visual Science, 2002, 43, 870-81.	3.3	38
100	Minor influence of the immunosuppressive cytokines IL-10 and TGF-ÃŸ on the proliferation and apoptosis of human retinal pigment epithelial (RPE) cells in vitro. Ocular Immunology and Inflammation, 2001, 9, 259-266.	1.0	5
101	The influence of pro-inflammatory cytokines on human retinal pigment epithelium cell receptors. Graefe's Archive for Clinical and Experimental Ophthalmology, 2001, 239, 294-301.	1.0	10
102	Molecular and cellular evidence for T-cell stimulation by allogeneic retinal pigment epithelium cells in vitro. Graefe's Archive for Clinical and Experimental Ophthalmology, 2001, 239, 445-451.	1.0	9
103	Retinal pigment epithelium melanin granules are phagocytozed by MÃ¼ller glial cells in experimental retinal detachment. Journal of Neurocytology, 2001, 30, 131-136.	1.6	30
104	Pars plana lentectomy for treatment of congenital cataract. , 2001, 239, 649-655.		12
105	Immunosuppression by IL-10-transfected human retinal pigment epithelial cells in vitro. Current Eye Research, 2001, 23, 98-105.	0.7	4
106	Alterations of sensory retinal explants exposed to choroidal melanoma cells ex vivo. Graefe's Archive for Clinical and Experimental Ophthalmology, 2000, 238, 985-992.	1.0	3
107	In-vitro methods to decrease MHC class II-positive cells in retinal pigment epithelium cell grafts. Ocular Immunology and Inflammation, 1998, 6, 145-153.	1.0	8
108	Iris pigment epithelium transplantation. Graefe's Archive for Clinical and Experimental Ophthalmology, 1997, 235, 558-562.	1.0	80

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109	Comparison of tight junction permeability for albumin in iris pigment epithelium and retinal pigment epithelium in vitro. Graefe's Archive for Clinical and Experimental Ophthalmology, 1997, 235, 48-55.	1.0	35
110	Loss of inwardly rectifying potassium currents by human retinal glial cells in diseases of the eye. , 1997, 20, 210-218.		84