Volker Enzmann

List of Publications by Year
in descending order

75 papers	2,575 citations	279798 23 h-index	315739 38 g-index
79 all docs	79 docs citations	79 times ranked	3083 citing authors

#	Article	IF	Citations
1	Macular Thickness Measurements in Healthy Eyes Using Six Different Optical Coherence Tomography Instruments. , 2009, 50, 3432.		393
2	Morphologic Changes in Patients with Geographic Atrophy Assessed with a Novel Spectral OCTâ€"SLO Combination. , 2008, 49, 3095.		130
3	Behavioral and anatomical abnormalities in a sodium iodate-induced model of retinal pigment epithelium degeneration. Experimental Eye Research, 2006, 82, 441-448.	2.6	120
4	Comparison of electrically evoked cortical potential thresholds generated with subretinal or suprachoroidal placement of a microelectrode array in the rabbit. Journal of Neural Engineering, 2005, 2, S48-S56.	3.5	110
5	Paracrine effects of mesenchymal stem cells enhance vascular regeneration in ischemic murine skin. Microvascular Research, 2012, 83, 267-275.	2.5	86
6	Decreased Visual Function after Patchy Loss of Retinal Pigment Epithelium Induced by Low-Dose Sodium Iodate. , 2009, 50, 4004.		79
7	Stem Cell-Based Therapeutic Applications in Retinal Degenerative Diseases. Stem Cell Reviews and Reports, 2011, 7, 434-445.	5.6	77
8	Retinal Pigment Epithelium Damage Enhances Expression of Chemoattractants and Migration of Bone Marrowâ€"Derived Stem Cells. , 2006, 47, 1646.		75
9	Retinal microglia signaling affects MÃ¼ller cell behavior in the zebrafish following laser injury induction. Glia, 2019, 67, 1150-1166.	4.9	73
10	Quantitative Analysis of Mouse Retinal Layers Using Automated Segmentation of Spectral Domain Optical Coherence Tomography Images. Translational Vision Science and Technology, 2015, 4, 9.	2.2	72
11	An improved MTT assay using the electron-coupling agent menadione. Journal of Immunological Methods, 1994, 168, 253-256.	1.4	64
12	Stem Cells as Tools in Regenerative Therapy for Retinal Degeneration. JAMA Ophthalmology, 2009, 127, 563.	2.4	57
13	Porcine Iris Pigment Epithelial Cells can take up Retinal Outer Segments. Experimental Eye Research, 1997, 65, 277-287.	2.6	54
14	Predictors of Short-Term Visual Outcome after Anti-VEGF Therapy of Macular Edema due to Central Retinal Vein Occlusion. , 2011, 52, 3334.		51
15	Visual acuity and contrast sensitivity of adult zebrafish. Frontiers in Zoology, 2012, 9, 10.	2.0	51
16	Retinal Cell Death Caused by Sodium Iodate Involves Multiple Caspase-Dependent and Caspase-Independent Cell-Death Pathways. International Journal of Molecular Sciences, 2015, 16, 15086-15103.	4.1	51
17	Blue-Light versus Green-Light Autofluorescence: Lesion Size of Areas of Geographic Atrophy. , 2011, 52, 9497.		50
18	Endogenous Bone Marrowâ€"Derived Cells Express Retinal Pigment Epithelium Cell Markers and Migrate to Focal Areas of RPE Damage. , 2007, 48, 4321.		46

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19	Modification of glutamine synthetase expression by mammalian MÃ¼ller (glial) cells in retinal organ cultures. NeuroReport, 1997, 8, 3067-3072.	1.2	42
20	Systemically transferred hematopoietic stem cells home to the subretinal space and express RPE-65 in a mouse model of retinal pigment epithelium damage. Experimental Eye Research, 2006, 83, 1295-1302.	2.6	42
21	Mechanisms of Graft Rejection in the Transplantation of Retinal Pigment Epithelial Cells. Ophthalmic Research, 1997, 29, 298-304.	1.9	39
22	Characteristics of Rod Regeneration in a Novel Zebrafish Retinal Degeneration Model Using N-Methyl-N-Nitrosourea (MNU). PLoS ONE, 2013, 8, e71064.	2.5	36
23	Retinal pigment epithelial cells activate uveitogenic T cells when they express high levels of MHC class II molecules, but inhibit T cell activation when they express restricted levels. Journal of Neuroimmunology, 2003, 144, 1-8.	2.3	35
24	Enhanced Induction of RPE Lineage Markers in Pluripotent Neural Stem Cells Engrafted into the Adult Rat Subretinal Space. , 2003, 44, 5417.		33
25	Identification of small Sca-1+, Linâˆ', CD45âˆ' multipotential cells in the neonatal murine retina. Experimental Hematology, 2009, 37, 1096-1107.e1.	0.4	30
26	Inhibition of the TGFÎ² Pathway Enhances Retinal Regeneration in Adult Zebrafish. PLoS ONE, 2016, 11, e0167073.	2.5	30
27	Complement Regulator FHR-3 Is Elevated either Locally or Systemically in a Selection of Autoimmune Diseases. Frontiers in Immunology, 2016, 7, 542.	4.8	29
28	Sodium Iodate-Induced Degeneration Results in Local Complement Changes and Inflammatory Processes in Murine Retina. International Journal of Molecular Sciences, 2021, 22, 9218.	4.1	29
29	Retinal differentiation of human bone marrow-derived stem cells by co-culture with retinal pigment epithelium in vitro. Experimental Cell Research, 2015, 333, 11-20.	2.6	26
30	Long-term cellular and regional specificity of the photoreceptor toxin, iodoacetic acid (IAA), in the rabbit retina. Visual Neuroscience, 2008, 25, 167-177.	1.0	25
31	Measuring localized viscoelasticity of the vitreous body using intraocular microprobes. Biomedical Microdevices, 2015, 17, 85.	2.8	25
32	Caspase-3-independent photoreceptor degeneration by N-methyl-N-nitrosourea (MNU) induces morphological and functional changes in the mouse retina. Graefe's Archive for Clinical and Experimental Ophthalmology, 2011, 249, 859-869.	1.9	24
33	Fluorescence Lifetime Imaging of the Ocular Fundus in Mice. , 2014, 55, 7206.		23
34	Bone marrow-derived mesenchymal stromal cells improve vascular regeneration and reduce leukocyte-endothelium activation in critical ischemic murine skin in a dose-dependent manner. Cytotherapy, 2014, 16, 1345-1360.	0.7	22
35	Oxidative Stress Increases Endogenous Complement-Dependent Inflammatory and Angiogenic Responses in Retinal Pigment Epithelial Cells Independently of Exogenous Complement Sources. Antioxidants, 2019, 8, 548.	5.1	22
36	Effective chemokines and cytokines in the rejection of human retinal pigment epithelium (RPE) cell grafts. Transplant Immunology, 1999, 7, 9-14.	1.2	21

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37	RASAGILINE INTERFERES WITH NEURODEGENERATION IN THE PRPH2/RDS MOUSE. Retina, 2012, 32, 617-628.	1.7	21
38	Diverse Signaling by TGFÎ² Isoforms in Response to Focal Injury is Associated with Either Retinal Regeneration or Reactive Gliosis. Cellular and Molecular Neurobiology, 2021, 41, 43-62.	3.3	20
39	The activation of IL-8 receptors in cultured guinea pig MÃ¼ller glial cells is modified by signals from retinal pigment epithelium. Journal of Neuroimmunology, 2005, 161, 49-60.	2.3	18
40	The TGFÎ²/Notch axis facilitates MÃ¼ller cell-to-epithelial transition to ultimately form a chronic glial scar. Molecular Neurodegeneration, 2021, 16, 69.	10.8	18
41	Changes in the mRNA expression of cytokines and chemokines by stimulated RPE cells in vitro. Current Eye Research, 2000, 20, 488-495.	1.5	17
42	CXCL12/SDF-1-Dependent Retinal Migration of Endogenous Bone Marrow-Derived Stem Cells Improves Visual Function after Pharmacologically Induced Retinal Degeneration. Stem Cell Reviews and Reports, 2017, 13, 278-286.	5.6	17
43	HtrA1 Mediated Intracellular Effects on Tubulin Using a Polarized RPE Disease Model. EBioMedicine, 2018, 27, 258-274.	6.1	17
44	Farnesol modulates membrane currents in human retinal glial cells. Journal of Neuroscience Research, 2000, 62, 396-402.	2.9	16
45	Down-Regulation of MHC Class II Expression on Bovine Retinal Pigment Epithelial Cells by Cytokines. Ophthalmic Research, 1999, 31, 256-266.	1.9	15
46	Complement Factor H-Related 3 Enhanced Inflammation and Complement Activation in Human RPE Cells. Frontiers in Immunology, 2021, 12, 769242.	4.8	15
47	Multiple programmed cell death pathways are involved in N-methyl-N-nitrosourea-induced photoreceptor degeneration. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 721-731.	1.9	14
48	Retinal Laser Lesion Visibility in Simultaneous Ultra-High Axial Resolution Optical Coherence Tomography. IEEE Photonics Journal, 2014, 6, 1-11.	2.0	12
49	Effect of pharmacologically induced retinal degeneration on retinal autofluorescence lifetimes in mice. Experimental Eye Research, 2016, 153, 178-185.	2.6	12
50	Müller Glia Cell Activation in a Laser-induced Retinal Degeneration and Regeneration Model in Zebrafish. Journal of Visualized Experiments, 2017, , .	0.3	12
51	Antineonatal Fc Receptor Antibody Treatment Ameliorates MOG-IgGâ€"Associated Experimental Autoimmune Encephalomyelitis. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, .	6.0	12
52	COMPLEMENT FACTOR P IN CHOROIDAL NEOVASCULAR MEMBRANES OF PATIENTS WITH AGE-RELATED MACULAR DEGENERATION. Retina, 2009, 29, 966-973.	1.7	11
53	Methylnitrosourea (MNU)-induced Retinal Degeneration and Regeneration in the Zebrafish: Histological and Functional Characteristics. Journal of Visualized Experiments, 2014, , e51909.	0.3	11
54	Extraocular muscle function is impaired in <i>ryr3</i>â^'/â^' mice. Journal of General Physiology, 2019, 151, 929-943.	1.9	11

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55	Properdin Modulates Complement Component Production in Stressed Human Primary Retinal Pigment Epithelium Cells. Antioxidants, 2020, 9, 793.	5.1	11
56	Presence of the Gpr179(nob5) allele in a C3H-derived transgenic mouse. Molecular Vision, 2013, 19, 2615-25.	1.1	11
57	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.	1.9	10
58	Morphology and Hemodynamics during Vascular Regeneration in Critically Ischemic Murine Skin Studied by Intravital Microscopy Techniques. European Surgical Research, 2011, 47, 222-230.	1.3	10
59	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.	1.9	9
60	In-vitro methods to decrease MHC class II-positive cells in retinal pigment epithelium cell grafts. Ocular Immunology and Inflammation, 1998, 6, 145-153.	1.8	8
61	Influence of Interleukin 10 and Transforming Growth Factor-Î² on T Cell Stimulation through Allogeneic Retinal Pigment Epithelium Cells in vitro. Ophthalmic Research, 2002, 34, 232-240.	1.9	8
62	Photopic and scotopic spatiotemporal tuning of adult zebrafish vision. Frontiers in Systems Neuroscience, 2015, 9, 20.	2.5	8
63	Secretion of Cytokines by Human Choroidal Melanoma Cells and Skin Melanoma Cell Lines in vitro. Ophthalmic Research, 1998, 30, 189-194.	1.9	7
64	An adaptive ERG technique to measure normal and altered dark adaptation in the mouse. Documenta Ophthalmologica, 2007, 115, 155-163.	2.2	7
65	Vitreoretinal Interface Changes in Geographic Atrophy. Ophthalmology, 2014, 121, 1734-1739.	5.2	7
66	Differentiation of cones in cultured rabbit retina: effects of retinal pigment epithelial cell-conditioned medium. Neuroscience Letters, 2003, 341, 53-56.	2.1	6
67	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.	1.8	5
68	Characteristics of MÃ¼ller glial cells in MNU-induced retinal degeneration. Visual Neuroscience, 2016, 33, E013.	1.0	5
69	Immunosuppression by IL-10-transfected human retinal pigment epithelial cells in vitro. Current Eye Research, 2001, 23, 98-105.	1.5	4
70	Detection of Chlamydia and Complement Factors in Neovascular Membranes of Patients with Age-related Macular Degeneration. Ocular Immunology and Inflammation, 2013, 21, 36-43.	1.8	3
71	Ranibizumab and Bevacizumab but Not Aflibercept Inhibit Proliferation of Primary Human Retinal Pigment Epithelium in vitro. Ophthalmologica, 2019, 241, 137-142.	1.9	3
72	Assessment of ultra-high resolution optical coherence tomography for monitoring tissue effects caused by laser photocoagulation of ex-vivo porcine retina. , 2015, , .		2

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73	Transcriptome Analysis Did Not Show Endogenous Stem Cell Characteristics in Murine Lgr5+ Retinal Cells. International Journal of Molecular Sciences, 2019, 20, 3547.	4.1	1
74	Farnesol modulates membrane currents in human retinal glial cells. , 2000, 62, 396.		1
75	RETC-2: An antibody for highly specific FHR-3 detection from human blood, retinal microglia cells and for diminishing molecular FHR-3 interactions. Immunobiology, 2016, 221, 1206.	1.9	0