Tim U Krohne

List of Publications by Year
in descending order

Version: 2024-02-01

60 papers	2,922 citations	218592 26 h-index	197736 49 g-index
91 all docs	91 docs citations	91 times ranked	3552 citing authors

#	Article	IF	Citations
1	Intraocular Pharmacokinetics of Bevacizumab After a Single Intravitreal Injection in Humans. American Journal of Ophthalmology, 2008, 146, 508-512.	1.7	331
2	Intraocular Pharmacokinetics of Ranibizumab Following a Single Intravitreal Injection in Humans. American Journal of Ophthalmology, 2012, 154, 682-686.e2.	1.7	202
3	Astrocyte hypoxic response is essential for pathological but not developmental angiogenesis of the retina. Glia, 2010, 58, 1177-1185.	2.5	142
4	Effects of lipid peroxidation products on lipofuscinogenesis and autophagy in human retinal pigment epithelial cells. Experimental Eye Research, 2010, 90, 465-471.	1.2	135
5	Effects of Lipid Peroxidation-Related Protein Modifications on RPE Lysosomal Functions and POS Phagocytosis. , 2007, 48, 1342.		115
6	Comparing Alternative Ranibizumab Dosages for Safety and Efficacy in Retinopathy of Prematurity. JAMA Pediatrics, 2018, 172, 278.	3.3	111
7	Mouse Î±-fetoproteinâ€“specific DNA-based immunotherapy of hepatocellular carcinoma leads to tumor regression in mice. Gastroenterology, 2000, 119, 1104-1112.	0.6	107
8	INTRAOCULAR PHARMACOKINETICS AFTER A SINGLE INTRAVITREAL INJECTION OF 1.5 mg VERSUS 3.0 mg OF BEVACIZUMAB IN HUMANS. Retina, 2011, 31, 1877-1884.	1.0	104
9	Modulation of three key innate immune pathways for the most common retinal degenerative diseases. EMBO Molecular Medicine, 2018, 10, .	3.3	102
10	Generation of Retinal Pigment Epithelial Cells from Small Molecules and OCT4 Reprogrammed Human Induced Pluripotent Stem Cells. Stem Cells Translational Medicine, 2012, 1, 96-109.	1.6	83
11	Lipid peroxidation products reduce lysosomal protease activities in human retinal pigment epithelial cells via two different mechanisms of action. Experimental Eye Research, 2010, 90, 261-266.	1.2	81
12	Gene therapy of hepatocellular carcinomain vitro andin vivo in nude mice by adenoviral transfer of theescherichia coli purine nucleoside phosphorylase gene. Hepatology, 2000, 31, 606-614.	3.6	76
13	Light induces NLRP3 inflammasome activation in retinal pigment epithelial cells via lipofuscin-mediated photooxidative damage. Journal of Molecular Medicine, 2015, 93, 905-916.	1.7	67
14	Complement Component C5a Primes Retinal Pigment Epithelial Cells for Inflammasome Activation by Lipofuscin-mediated Photooxidative Damage. Journal of Biological Chemistry, 2015, 290, 31189-31198.	1.6	59
15	In-depth mass spectrometric mapping of the human vitreous proteome. Proteome Science, 2013, 11, 22.	0.7	58
16	Mechanisms of cell death induced by suicide genes encoding purine nucleoside phosphorylase and thymidine kinase in human hepatocellular carcinoma cells in vitro. Hepatology, 2001, 34, 511-518.	3.6	54
17	Pathological but Not Physiological Retinal Neovascularization Is Altered in TNF-Rp55-Receptorâ€“Deficient Mice. , 2006, 47, 5057.		51
18	Inflammasome priming increases retinal pigment epithelial cell susceptibility to lipofuscin phototoxicity by changing the cell death mechanism from apoptosis to pyroptosis. Journal of Photochemistry and Photobiology B: Biology, 2016, 161, 177-183.	1.7	51

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19	Using Flow Cytometry to Compare the Dynamics of Photoreceptor Outer Segment Phagocytosis in iPS-Derived RPE Cells. , 2012, 53, 6282.		46
20	Apical-to-Basolateral Transcytosis of Photoreceptor Outer Segments Induced by Lipid Peroxidation Products in Human Retinal Pigment Epithelial Cells. , 2010, 51, 553.		40
21	Routes for Drug Delivery to the Eye and Retina: Intravitreal Injections. Developments in Ophthalmology, 2016, 55, 63-70.	0.1	40
22	Pharmacokinetics and safety of intravitreally delivered etanercept. Graefe's Archive for Clinical and Experimental Ophthalmology, 2004, 242, 582-586.	1.0	39
23	Stemming vision loss with stem cells. Journal of Clinical Investigation, 2010, 120, 3012-3021.	3.9	38
24	New Pharmacologic Approaches to Therapy for Age-Related Macular Degeneration. BioDrugs, 2006, 20, 167-179.	2.2	37
25	OCT Angiographyâ€“Based Detection and Quantification of the Neovascular Network in Exudative AMD. , 2016, 57, 6342.		33
26	Non-contact smartphone-based fundus imaging compared to conventional fundus imaging: a low-cost alternative for retinopathy of prematurity screening and documentation. Scientific Reports, 2019, 9, 19711.	1.6	33
27	Immunotherapy directed against Î±-fetoprotein results in autoimmune liver disease during liver regeneration in mice. Gastroenterology, 2001, 121, 931-939.	0.6	32
28	Retinal Injury Following Laser Pointer Exposure. Deutsches Ärzteblatt International, 2017, 114, 831-837.	0.6	32
29	The German ROP Registry: data from 90 infants treated for retinopathy of prematurity. Acta Ophthalmologica, 2016, 94, e744-e752.	0.6	31
30	Concentrations of unbound bevacizumab in the aqueous of untreated fellow eyes after a single intravitreal injection in humans. Acta Ophthalmologica, 2012, 90, 68-70.	0.6	29
31	Astrocyte pVHL and HIF-Î± isoforms are required for embryonic-to-adult vascular transition in the eye. Journal of Cell Biology, 2011, 195, 689-701.	2.3	26
32	Effects of Inflammasome Activation on Secretion of Inflammatory Cytokines and Vascular Endothelial Growth Factor by Retinal Pigment Epithelial Cells. , 2015, 56, 6404.		25
33	Lipid metabolites in the pathogenesis and treatment of neovascular eye disease. British Journal of Ophthalmology, 2011, 95, 1496-1501.	2.1	22
34	INFLUENCE OF OCULAR VOLUME AND LENS STATUS ON PHARMACOKINETICS AND DURATION OF ACTION OF INTRAVITREAL VASCULAR ENDOTHELIAL GROWTH FACTOR INHIBITORS. Retina, 2015, 35, 69-74.	1.0	21
35	Pre-Analytical Parameters Affecting Vascular Endothelial Growth Factor Measurement in Plasma: Identifying Confounders. PLoS ONE, 2016, 11, e0145375.	1.1	20
36	High-resolution optical coherence tomography of subpigment epithelial structures in patients with pigment epithelium detachment secondary to age-related macular degeneration. British Journal of Ophthalmology, 2012, 96, 1088-1091.	2.1	19

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37	Geldanamycin treatment reduces neovascularization in a mouse model of retinopathy of prematurity. Graefe's Archive for Clinical and Experimental Ophthalmology, 2007, 245, 258-266.	1.0	18
38	Ranibizumab in retinopathy of prematurity â€“ oneâ€year followâ€up of ophthalmic outcomes and twoâ€year followâ€up of neurodevelopmental outcomes from the CAREâ€ROP study. Acta Ophthalmologica, 2022, 100, .	0.6	18
39	Efficacy of novel selective NLRP3 inhibitors in human and murine retinal pigment epithelial cells. Journal of Molecular Medicine, 2019, 97, 523-532.	1.7	17
40	Incidence of retinopathy of prematurity in Germany: evaluation of current screening criteria. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2021, 106, 189-193.	1.4	16
41	Visual impairment and blindness in institutionalized elderly in Germany. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 363-370.	1.0	15
42	ICAM-1 depletion does not alter retinal vascular development in a model of oxygen-mediated neovascularization. Experimental Eye Research, 2009, 89, 503-510.	1.2	13
43	The long dystrophin gene product Dp427 modulates retinal function and vascular morphology in response to age and retinal ischemia. Neurochemistry International, 2019, 129, 104489.	1.9	13
44	Optical coherence tomography angiography (OCT-A) in an animal model of laser-induced choroidal neovascularization. Experimental Eye Research, 2019, 184, 162-171.	1.2	13
45	The Rise of Retinal Organoids for Vision Research. International Journal of Molecular Sciences, 2020, 21, 8484.	1.8	13
46	Silicone oil tamponade for persistent macular holes. Eye, 2021, 35, 2206-2212.	1.1	11
47	Oxalobacter formigenes treatment combined with intensive dialysis lowers plasma oxalate and halts disease progression in a patient with severe infantile oxalosis. Pediatric Nephrology, 2020, 35, 1121-1124.	0.9	11
48	Plasmapheresis for Dry Age-Related Macular Degenerationâ€”Evidence Based?. Retina, 2009, 29, 569-572.	1.0	10
49	Effect of 308 nm excimer laser irradiation on retinal pigment epithelium cell viability in vitro. British Journal of Ophthalmology, 2009, 93, 91-95.	2.1	8
50	Retinal findings in neonates with congenital diaphragmatic hernia and extracorporeal membrane oxygenation. Journal of Pediatric Surgery, 2020, 55, 1292-1295.	0.8	8
51	LONGITUDINAL CHANGE OF OUTER NUCLEAR LAYER AFTER RETINAL PIGMENT EPITHELIAL TEAR SECONDARY TO AGE-RELATED MACULAR DEGENERATION. Retina, 2018, 38, 1331-1337.	1.0	7
52	MINIMAL OPTICAL COHERENCE TOMOGRAPHY B-SCAN DENSITY FOR RELIABLE DETECTION OF INTRARETINAL AND SUBRETINAL FLUID IN MACULAR DISEASES. Retina, 2019, 39, 150-156.	1.0	6
53	RANIBIZUMAB IN PIGMENT EPITHELIAL TEARS SECONDARY TO AGE-RELATED MACULAR DEGENERATION. Retina, 2019, 39, 2369-2377.	1.0	5
54	Retinal Hemorrhages in Shaken Baby Syndrome. Journal of Pediatrics, 2019, 207, 256.	0.9	4

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55	National guideline for ophthalmological screening of premature infants in Germany (S2k level, AWMF) Tj ETQq1 1 0.784314 rgBT /Ov	0.4	3
56	No Evidence to Support the Use of Plasmapheresis for Ageâ€Related Macular Degeneration. Therapeutic Apheresis and Dialysis, 2010, 14, 607-608.	0.4	2
57	Pharmacokinetics of Intravitreally Applied VEGF Inhibitors. Essentials in Ophthalmology, 2016, , 139-148.	0.0	2
58	Mouse Î±-fetoprotein specific DNA-based immunotherapy of hepatocellular carcinoma to tumor regression in mice. Journal of Hepatology, 2000, 32, 86.	1.8	0
59	Mechanisms of cell death induced by the suicide genes encoding purine nucleoside phosphorylase and thymidine kinase in human hepatocellular carcinoma cells in vitro. Journal of Hepatology, 2001, 34, 107-108.	1.8	0
60	Routes for drug delivery to the eye and retinaintravitreal injections and vitrectomy. , 2010, , 67-73.		0