Eberhart Zrenner

List of Publications by Year
in descending order

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82 papers	4,159 citations	257450 24 h-index	128289 60 g-index
83 all docs	83 docs citations	83 times ranked	3953 citing authors

#	Article	IF	Citations
1	Subretinal electronic chips allow blind patients to read letters and combine them to words. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1489-1497.	2.6	717
2	Artificial vision with wirelessly powered subretinal electronic implant alpha-IMS. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130077.	2.6	390
3	Subretinal Visual Implant Alpha IMS â€“ Clinical trial interim report. Vision Research, 2015, 111, 149-160.	1.4	324
4	Panel-based next generation sequencing as a reliable and efficient technique to detect mutations in unselected patients with retinal dystrophies. European Journal of Human Genetics, 2014, 22, 99-104.	2.8	229
5	New views on RPE65 deficiency: the rod system is the source of vision in a mouse model of Leber congenital amaurosis. Nature Genetics, 2001, 29, 70-74.	21.4	222
6	Identification of a Common Non-Apoptotic Cell Death Mechanism in Hereditary Retinal Degeneration. PLoS ONE, 2014, 9, e112142.	2.5	191
7	Mutations in the unfolded protein response regulator ATF6 cause the cone dysfunction disorder achromatopsia. Nature Genetics, 2015, 47, 757-765.	21.4	183
8	Fighting Blindness with Microelectronics. Science Translational Medicine, 2013, 5, 210ps16.	12.4	160
9	Interim Results of a Multicenter Trial with the New Electronic Subretinal Implant Alpha AMS in 15 Patients Blind from Inherited Retinal Degenerations. Frontiers in Neuroscience, 2017, 11, 445.	2.8	148
10	Assessment of the Electronic Retinal Implant Alpha AMS in Restoring Vision to Blind Patients with End-Stage Retinitis Pigmentosa. Ophthalmology, 2018, 125, 432-443.	5.2	133
11	Safety and Vision Outcomes of Subretinal Gene Therapy Targeting Cone Photoreceptors in Achromatopsia. JAMA Ophthalmology, 2020, 138, 643.	2.5	100
12	Is colour vision possible with only rods and blue-sensitive cones?. Nature, 1991, 352, 798-800.	27.8	94
13	An innovative strategy for the molecular diagnosis of Usher syndrome identifies causal biallelic mutations in 93% of European patients. European Journal of Human Genetics, 2016, 24, 1730-1738.	2.8	77
14	Transcorneal Electrical Stimulation for Patients With Retinitis Pigmentosa: A Prospective, Randomized, Sham-Controlled Follow-up Study Over 1 Year. , 2017, 58, 257.		76
15	Superior Retinal Gene Transfer and Biodistribution Profile of Subretinal Versus Intravitreal Delivery of AAV8 in Nonhuman Primates. , 2017, 58, 5792.		75
16	Efficacy and Safety of Retinal Gene Therapy Using Adeno-Associated Virus Vector for Patients With Choroideremia. JAMA Ophthalmology, 2019, 137, 1247.	2.5	64
17	Genetic architecture of inherited retinal degeneration in Germany: A large cohort study from a single diagnostic center over a 9â€year period. Human Mutation, 2020, 41, 1514-1527.	2.5	57
18	Safety and Proof-of-Concept Study of Oral QLT091001 in Retinitis Pigmentosa Due to Inherited Deficiencies of Retinal Pigment Epithelial 65 Protein (RPE65) or Lecithin:Retinol Acyltransferase (LRAT). PLoS ONE, 2015, 10, e0143846.	2.5	55

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19	CDHR1 mutations in retinal dystrophies. Scientific Reports, 2017, 7, 6992.	3.3	49
20	The Clinical Phenotype of CNGA3-Related Achromatopsia: Pretreatment Characterization in Preparation of a Gene Replacement Therapy Trial. , 2017, 58, 821.		47
21	Multimodal assessment of choroideremia patients defines pre-treatment characteristics. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 2143-2150.	1.9	44
22	Oculomotor behavior of blind patients seeing with a subretinal visual implant. Vision Research, 2016, 118, 119-131.	1.4	39
23	Evaluation of polyesteramide (PEA) and polyester (PLGA) microspheres as intravitreal drug delivery systems in albino rats. Biomaterials, 2017, 124, 157-168.	11.4	37
24	A comparison of the performance of three visual evoked potential-based methods to estimate visual acuity. Documenta Ophthalmologica, 2013, 126, 45-56.	2.2	35
25	Solar cells for the blind. Nature Photonics, 2012, 6, 344-345.	31.4	34
26	Bioengineering strategies for restoring vision. Nature Biomedical Engineering, 2023, 7, 387-404.	22.5	30
27	Development of a Chromatic Pupillography Protocol for the First Gene Therapy Trial in Patients With CNGA3-Linked Achromatopsia. , 2017, 58, 1274.		29
28	CEP290 Mutation Spectrum and Delineation of the Associated Phenotype in a Large German Cohort: A Monocentric Study. American Journal of Ophthalmology, 2020, 211, 142-150.	3.3	27
29	Retinal functional alterations in mice lacking intermediate filament proteins glial fibrillary acidic protein and vimentin. FASEB Journal, 2015, 29, 4815-4828.	0.5	26
30	Spatial and temporal resolution of the photoreceptors rescue dynamics after treatment with voretigene neparvovec. British Journal of Ophthalmology, 2022, 106, 831-838.	3.9	26
31	Effects of Multiple Doses of Voriconazole on the Vision of Healthy Volunteers: A Double-Blind, Placebo-Controlled Study. Ophthalmic Research, 2014, 52, 43-52.	1.9	25
32	Ophthalmic features of coneâ€rod dystrophy caused by pathogenic variants in the <scp>ALMS</scp>1 gene. Acta Ophthalmologica, 2018, 96, e445-e454.	1.1	24
33	Where are the missing gene defects in inherited retinal disorders? Intronic and synonymous variants contribute at least to 4% of CACNA1F â€mediated inherited retinal disorders. Human Mutation, 2019, 40, 765-787.	2.5	24
34	Phenotype Variations Caused by Mutations in theRP1L1Gene in a Large Mainly German Cohort. , 2018, 59, 3041.		23
35	Emmetropes and myopes differ little in their accommodation dynamics but strongly in their ciliary muscle morphology. Vision Research, 2019, 163, 42-51.	1.4	21
36	Spike-triggered average electrical stimuli as input filters for bionic visionâ€”a perspective. Journal of Neural Engineering, 2018, 15, 063002.	3.5	19

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37	Electrical activation of degenerated photoreceptors in blind mouse retina elicited network-mediated responses in different types of ganglion cells. Scientific Reports, 2018, 8, 16998.	3.3	18
38	Highest reported visual acuity after electronic retinal implantation. Acta Ophthalmologica, 2020, 98, 736-740.	1.1	17
39	KCNV2-Associated Retinopathy: Genetics, Electrophysiology, and Clinical Courseâ€"KCNV2 Study Group Report 1. American Journal of Ophthalmology, 2021, 225, 95-107.	3.3	17
40	CNGB1 â€related rodâ€cone dystrophy: A mutation review and update. Human Mutation, 2021, 42, 641-666.	2.5	16
41	Objective assessment of visual acuity: a refined model for analyzing the sweep VEP. Documenta Ophthalmologica, 2019, 138, 97-116.	2.2	15
42	Attenuation of S-cone function at high altitude assessed by electroretinography. Vision Research, 2014, 97, 59-64.	1.4	14
43	Phenotypic spectrum of autosomal recessive retinitis pigmentosa without posterior column ataxia caused by mutations in the FLVCR1 gene. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 629-638.	1.9	13
44	Chromatic Full-Field Stimulus Threshold and Pupillography as Functional Markers for Late-Stage, Early-Onset Retinitis Pigmentosa Caused by CRB1 Mutations. Translational Vision Science and Technology, 2019, 8, 45.	2.2	13
45	Prolonged nearwork affects the ciliary muscle morphology. Experimental Eye Research, 2019, 186, 107741.	2.6	12
46	Clinical Phenotype of PDE6B-Associated Retinitis Pigmentosa. International Journal of Molecular Sciences, 2021, 22, 2374.	4.1	12
47	Olfactory Dysfunction in Patients WithCNGB1-Associated Retinitis Pigmentosa. JAMA Ophthalmology, 2018, 136, 761.	2.5	11
48	Clinical Protocols for the Evaluation of Rod Function. Ophthalmologica, 2021, 244, 396-407.	1.9	11
49	KCNV2-Associated Retinopathy: Detailed Retinal Phenotype and Structural Endpointsâ€"KCNV2 Study Group Report 2. American Journal of Ophthalmology, 2021, 230, 1-11.	3.3	11
50	Changes in microchip position after implantation of a subretinal vision prosthesis in humans. Acta Ophthalmologica, 2019, 97, e871-e876.	1.1	9
51	Clinical Phenotype and Course of PDE6A-Associated Retinitis Pigmentosa Disease, Characterized in Preparation for a Gene Supplementation Trial. JAMA Ophthalmology, 2020, 138, 1241.	2.5	9
52	Decreased Na+/K+ ATPase Expression and Depolarized Cell Membrane in Neurons Differentiated from Chorea-Acanthocytosis Patients. Scientific Reports, 2020, 10, 8391.	3.3	9
53	Extraocular Surgical Approach for Placement of Subretinal Implants in Blind Patients: Lessons from Cochlear-Implants. Journal of Ophthalmology, 2015, 2015, 1-6.	1.3	8
54	Ophthalmic features of retinitis pigmentosa in Cohen syndrome caused by pathogenic variants in the <scp>VPS</scp>13B gene. Acta Ophthalmologica, 2020, 98, e316-e321.	1.1	8

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55	Review of the application of the open-source software CilOCT for semi-automatic segmentation and analysis of the ciliary muscle in OCT images. PLoS ONE, 2020, 15, e0234330.	2.5	8
56	Pupillary Light Reaction during High Altitude Exposure. PLoS ONE, 2014, 9, e87889.	2.5	7
57	The Spatial Extent of Epiretinal Electrical Stimulation in the Healthy Mouse Retina. NeuroSignals, 2017, 25, 15-25.	0.9	7
58	Phosphene perception and pupillary responses to sinusoidal electrostimulation - For an objective measurement of retinal function. Experimental Eye Research, 2018, 176, 210-218.	2.6	7
59	Full-field electroretinography, visual acuity and visual fields in Usher syndrome: a multicentre European study. Documenta Ophthalmologica, 2019, 139, 151-160.	2.2	7
60	Restriction of eye motility in patients with RETINA IMPLANT Alpha AMS. Acta Ophthalmologica, 2020, 98, e998-e1003.	1.1	5
61	Usher Syndrome and Color Vision. Current Eye Research, 2018, 43, 1295-1301.	1.5	3
62	A duplication on chromosome 16q12 affecting the IRXB gene cluster is associated with autosomal dominant cone dystrophy with early tritanopic color vision defect. Human Molecular Genetics, 2021, 30, 1218-1229.	2.9	3
63	Disease expression caused by different variants in the BEST1 gene: genotype and phenotype findings in bestrophinopathies. Acta Ophthalmologica, 2022, 100, .	1.1	3
64	CT Assessment of Intraorbital Cable Movement of Electronic Subretinal Prosthesis in Three Different Surgical Approaches. Translational Vision Science and Technology, 2021, 10, 16.	2.2	3
65	Characteristics of Retinitis Pigmentosa Associated with ADGRV1 and Comparison with USH2A in Patients from a Multicentric Usher Syndrome Study Treatrush. International Journal of Molecular Sciences, 2021, 22, 10352.	4.1	3
66	Reversibility of TamoxifenÂ® Retinopathyâ€"A Ten-Year Follow-Up. Neuro-Ophthalmology, 2008, 32, 214-221.	1.0	2
67	Disinhibition of intrinsic photosensitive retinal ganglion cells in patients with X-linked congenital stationary night blindness. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 1207-1215.	1.9	2
68	The perception threshold of the panda illusion, a particular form of 2D pulse-width-modulated halftone, correlates with visual acuity. Scientific Reports, 2020, 10, 13095.	3.3	2
69	Quality Control Procedures and Baseline Values for Electroretinography, Perimetry, Color Vision, and Visual Acuity in an International Multicenter Study: Observations from a Safety Trial in Chronic Stable Angina Pectoris. Translational Vision Science and Technology, 2020, 9, 38.	2.2	2
70	Central Visual Function and Genotypeâ€"Phenotype Correlations in PDE6A-Associated Retinitis Pigmentosa. , 2022, 63, 9.		2
71	Adaptive optics ophthalmoscopy in retinitis pigmentosa (<scp>RP</scp>): Typical patterns. Acta Ophthalmologica, 0, , .	1.1	2
72	The landscape of submicroscopic structural variants at the OPN1LW/OPN1MW gene cluster on Xq28 underlying blue cone monochromacy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	2

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73	Visual Evoked Potentials Used to Evaluate a Commercially Available Superabsorbent Polymer as a Cheap and Efficient Material for Preparation-Free Electrodes for Recording Electrical Potentials of the Human Visual Cortex. Sensors, 2019, 19, 4890.	3.8	1
74	Correlating Adaptive Optics Images to Clinical Findings in Juvenile Macular Dystrophy with Hypotrichosis in Siblings with Homozygous <i>CDH3</i> Pathogenic Variation. Ophthalmic Research, 2020, 63, 141-151.	1.9	1
75	Comparison of CRT and LCD monitors for objective estimation of visual acuity using the sweep VEP. Documenta Ophthalmologica, 2022, 145, 133-145.	2.2	1
76	Response to comment on â€˜Prolonged nearwork affects the ciliary muscle morphologyâ€™ by Schachar & Schachar. Experimental Eye Research, 2019, 187, 107786.	2.6	0
77	PandAcuity in paediatrics: a novel clinical measure of visual function based on the panda illusion. British Journal of Ophthalmology, 2021, , bjophthalmol-2021-319935.	3.9	0
78	Three-Year Changes in Visual Function in the Placebo Group of a Randomized Double-Blind International Multicenter Safety Study: Analysis of Electroretinography, Perimetry, Color Vision, and Visual Acuity in Individuals With Chronic Stable Angina Pectoris. Translational Vision Science and Technology, 2022, 11, 2.	2.2	0
79	Title is missing!. , 2020, 15, e0234330.		0
80	Title is missing!. , 2020, 15, e0234330.		0
81	Title is missing!. , 2020, 15, e0234330.		0
82	Title is missing!. , 2020, 15, e0234330.		0