Leo Peichl

List of Publications by Year
in descending order

75 papers	5,215 citations	126907 33 h-index	110387 64 g-index
79 all docs	79 docs citations	79 times ranked	4279 citing authors

#	Article	IF	Citations
1	Ophthalmology of Canidae: Foxes, Wolves, and Relatives. , 2022, , 181-214.		1
2	Eye-Transcriptome and Genome-Wide Sequencing for Scolecophidia: Implications for Inferring the Visual System of the Ancestral Snake. Genome Biology and Evolution, 2021, 13, .	2.5	8
3	Evolution of the eyes of vipers with and without infrared-sensing pit organs. Biological Journal of the Linnean Society, 2019, 126, 796-823.	1.6	22
4	Diversity of photoreceptor arrangements in nocturnal, cathemeral and diurnal Malagasy lemurs. Journal of Comparative Neurology, 2019, 527, 13-37.	1.6	61
5	Magnetoreception: activation of avian cryptochrome 1a in various light conditions. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 977-984.	1.6	14
6	The rod signaling pathway in marsupial retinae. PLoS ONE, 2018, 13, e0202089.	2.5	3
7	Retinal photoreceptor and ganglion cell types and topographies in the red fox (<scp><i>Vulpes) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Neurology, 2018, 526, 2078-2098.	1.6	7
8	The Retina of Asian and African Elephants: Comparison of Newborn and Adult. Brain, Behavior and Evolution, 2017, 89, 84-103.	1.7	7
9	Seasonally Changing Cryptochrome 1b Expression in the Retinal Ganglion Cells of a Migrating Passerine Bird. PLoS ONE, 2016, 11, e0150377.	2.5	40
10	Cryptochrome 1 in Retinal Cone Photoreceptors Suggests a Novel Functional Role in Mammals. Scientific Reports, 2016, 6, 21848.	3.3	49
11	Thyroid Hormone Signaling in the Mouse Retina. PLoS ONE, 2016, 11, e0168003.	2.5	10
12	Cone bipolar cells in the retina of the microbat <i>Carollia perspicillata</i>. Journal of Comparative Neurology, 2015, 523, 963-981.	1.6	12
13	Magnetoreception in birds: I. Immunohistochemical studies concerning the cryptochrome cycle. Journal of Experimental Biology, 2014, 217, 4221-4224.	1.7	41
14	DNA methylation reader MECP2: cell type- and differentiation stage-specific protein distribution. Epigenetics and Chromatin, 2014, 7, 17.	3.9	55
15	S cones: Evolution, retinal distribution, development, and spectral sensitivity. Visual Neuroscience, 2014, 31, 115-138.	1.0	75
16	Diurnality and Nocturnality in Primates: An Analysis from the Rod Photoreceptor Nuclei Perspective. Evolutionary Biology, 2014, 41, 1-11.	1.1	27
17	Expression and Evolution of Short Wavelength Sensitive Opsins in Colugos: A Nocturnal Lineage That Informs Debate on Primate Origins. Evolutionary Biology, 2013, 40, 542-553.	1.1	24
18	LBR and Lamin A/C Sequentially Tether Peripheral Heterochromatin and Inversely Regulate Differentiation. Cell, 2013, 152, 584-598.	28.9	681

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19	Magnetoreception: activated cryptochrome 1a concurs with magnetic orientation in birds. Journal of the Royal Society Interface, 2013, 10, 20130638.	3.4	91
20	The Rod Pathway of the Microbat Retina Has Bistratified Rod Bipolar Cells and Tristratified AII Amacrine Cells. Journal of Neuroscience, 2013, 33, 1014-1023.	3.6	13
21	Retinal Cone Photoreceptors of the Deer Mouse Peromyscus maniculatus: Development, Topography, Opsin Expression and Spectral Tuning. PLoS ONE, 2013, 8, e80910.	2.5	13
22	Avian Ultraviolet/Violet Cones Identified as Probable Magnetoreceptors. PLoS ONE, 2011, 6, e20091.	2.5	150
23	Thyroid Hormone Controls Cone Opsin Expression in the Retina of Adult Rodents. Journal of Neuroscience, 2011, 31, 4844-4851.	3.6	77
24	Avian ultraviolet/violet cones as magnetoreceptors: The problem of separating visual and magnetic information. Communicative and Integrative Biology, 2011, 4, 713-716.	1.4	14
25	Retinal photoreceptor arrangement, SWS1 and LWS opsin sequence, and electroretinography in the South American marsupial <i>Thylamys elegans</i> (Waterhouse, 1839). Journal of Comparative Neurology, 2010, 518, 1589-1602.	1.6	23
26	Retinal photoreceptors of two subterranean tucoâ€tuco species (Rodentia, <i>Ctenomys</i>): Morphology, topography, and spectral sensitivity. Journal of Comparative Neurology, 2010, 518, 4001-4015.	1.6	25
27	Developmental Changes of Cone Opsin Expression but Not Retinal Morphology in the Hypothyroid Pax8 Knockout Mouse. , 2010, 51, 1719.		36
28	Novel Rodent Models for Macular Research. PLoS ONE, 2010, 5, e13403.	2.5	51
29	Bat Eyes Have Ultraviolet-Sensitive Cone Photoreceptors. PLoS ONE, 2009, 4, e6390.	2.5	91
30	The topography of cone photoreceptors in the retina of a diurnal rodent, the agouti (Dasyprocta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.0	24
31	Retinal Ganglion Cell Topography in Juvenile Harbor Seals <i>(Phoca vitulina)</i>. Brain, Behavior and Evolution, 2009, 74, 102-109.	1.7	24
32	Zellkerne als NachtsichtgerÃt. Biologie in Unserer Zeit, 2009, 39, 154-155.	0.2	0
33	Nuclear Architecture of Rod Photoreceptor Cells Adapts to Vision in Mammalian Evolution. Cell, 2009, 137, 356-368.	28.9	683
34	Living Optical Elements in the Vertebrate Retina. Biophysical Journal, 2009, 96, 527a.	0.5	0
35	Retinal Ganglion Cells. , 2009, , 3507-3513.		3
36	The visual system in subterranean African mole-rats (Rodentia, Bathyergidae): Retina, subcortical visual nuclei and primary visual cortex. Brain Research Bulletin, 2008, 75, 356-364.	3.0	63

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37	Structure and Function of the Retina in Aquatic Tetrapods. , 2008, , 148-172.		14
38	Cone photoreceptors and potential UV vision in a subterranean insectivore, the European mole. Journal of Vision, 2008, 8, 23.	0.3	51
39	Cone Photoreceptor Diversity in the Retinas of Fruit Bats (Megachiroptera). Brain, Behavior and Evolution, 2007, 70, 90-104.	1.7	97
40	Visual Systems and the Role of Vision in Subterranean Rodents: Diversity of Retinal Properties and Visual System Designs. , 2007, , 129-160.		33
41	Vor 100 Jahren: Nobelpreis fÃ¼r Golgi und RamÃ³n y Cajal. E-Neuroforum, 2006, 12, 266-267.	0.1	0
42	Eye and vision in the subterranean rodent cururo (Spalacopus cyanus, octodontidae). Journal of Comparative Neurology, 2005, 486, 197-208.	1.6	53
43	Diversity of mammalian photoreceptor properties: Adaptations to habitat and lifestyle?. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2005, 287A, 1001-1012.	2.0	311
44	Unusual cone and rod properties in subterranean African moleâ€rats (Rodentia, Bathyergidae). European Journal of Neuroscience, 2004, 19, 1545-1558.	2.6	70
45	Subcortical visual system of the African moleâ€rat<i>Cryptomys anselli</i>: to see or not to see?. European Journal of Neuroscience, 2004, 20, 757-768.	2.6	52
46	Retinal Spectral Sensitivity, Fur Coloration, and Urine Reflectance in the GenusOctodon(Rodentia): Implications for Visual Ecology. , 2003, 44, 2290.		81
47	Colour vision in aquatic mammalsâ€"facts and open questions. Aquatic Mammals, 2003, 29, 18-30.	0.7	67
48	Development of glutamatergic synapses in the rat retina: The postnatal expression of ionotropic glutamate receptor subunits. Visual Neuroscience, 2002, 19, 1-13.	1.0	31
49	Vor 100 Jahren: Julius Bernstein (1839â€"1917) formuliert seine â€œMembrantheorieâ€. E-Neuroforum, 2002, 8, .	0.1	2
50	For whales and seals the ocean is not blue: a visual pigment loss in marine mammals*. European Journal of Neuroscience, 2001, 13, 1520-1528.	2.6	174
51	Heterogeneous distribution of AMPA glutamate receptor subunits at the photoreceptor synapses of rodent retina. European Journal of Neuroscience, 2001, 13, 15-24.	2.6	33
52	Heterogeneous distribution of AMPA glutamate receptor subunits at the photoreceptor synapses of rodent retina. European Journal of Neuroscience, 2001, 13, 15-24.	2.6	39
53	Photoreceptor types and distributions in the retinae of insectivores. Visual Neuroscience, 2000, 17, 937-948.	1.0	52
54	Horizontal cells of the rabbit retina are non-selectively connected to the cones. European Journal of Neuroscience, 1999, 11, 2261-2274.	2.6	29

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55	Absence of shortâ€wavelength sensitive cones in the retinae of seals (Carnivora) and African giant rats (Rodentia). European Journal of Neuroscience, 1998, 10, 2586-2594.	2.6	78
56	Comparative Anatomy and Function of Mammalian Horizontal Cells. , 1998, , 147-172.		37
57	Absence of short-wavelength sensitive cones in the retinae of seals (Carnivora) and African giant rats (Rodentia). European Journal of Neuroscience, 1998, 10, 2586-2594.	2.6	1
58	Starburst cholinergic amacrine cells in the tree shrew retina. , 1997, 389, 161-176.		31
59	â€œWie Tuschezeichnungen auf Japan-papierâ€• vor 90 Jahren erhielten Golgi und Cajal den Nobelpreis. E-Neuroforum, 1996, 2, 34-36.	0.1	0
60	Blue-Cone Horizontal Cells in the Retinae of Horses and OtherEquidae. Journal of Neuroscience, 1996, 16, 3381-3396.	3.6	57
61	Unique Distribution of Somatostatin-immunoreactive Cells in the Retina of the Tree Shrew (Tupaia) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	17
62	The horizontal cells of artiodactyl retinae: A comparison with Cajal's descriptions. Visual Neuroscience, 1996, 13, 735-746.	1.0	10
63	Morphological types of horizontal cell in rodent retinae: A comparison of rat, mouse, gerbil, and guinea pig. Visual Neuroscience, 1994, 11, 501-517.	1.0	315
64	Prinzipien der Bildverarbeitung in der Retina der SÃugetiere. Biologie in Unserer Zeit, 1992, 22, 45-53.	0.2	4
65	Morphological types of ganglion cells in the dog and wolf retina. Journal of Comparative Neurology, 1992, 324, 590-602.	1.6	32
66	Morphology and distribution of catecholaminergic amacrine cells in the cone-dominated tree shrew retina. Journal of Comparative Neurology, 1991, 308, 91-102.	1.6	20
67	Rod bipolar cells in the cone-dominated retina of the tree shrew Tupaia belangeri. Visual Neuroscience, 1991, 6, 629-639.	1.0	26
68	Alpha ganglion cells in mammalian retinae: Common properties, species differences, and some comments on other ganglion cells. Visual Neuroscience, 1991, 7, 155-169.	1.0	138
69	Catecholaminergic amacrine cells in the dog and wolf retina. Visual Neuroscience, 1991, 7, 575-587.	1.0	24
70	Topography of cones and rods in the tree shrew retina. Journal of Comparative Neurology, 1989, 282, 581-594.	1.6	130
71	Alpha and delta ganglion cells in the rat retina. Journal of Comparative Neurology, 1989, 286, 120-139.	1.6	144
72	Alpha ganglion cells in the rabbit retina. Journal of Comparative Neurology, 1987, 263, 25-41.	1.6	126

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73	Morphology of rabbit retinal ganglion cells projecting to the medial terminal nucleus of the accessory optic system. Journal of Comparative Neurology, 1986, 253, 163-174.	1.6	105
74	Matching populations of amacrine cells in the inner nuclear and ganglion cell layers of the rabbit retina. Journal of Comparative Neurology, 1981, 199, 373-391.	1.6	178
75	Are field potentials an appropriate method for demonstrating connections in the brain?. Experimental Neurology, 1978, 60, 509-521.	4.1	19