# 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 | Nuclear Architecture of Rod Photoreceptor Cells Adapts to Vision in Mammalian Evolution. Cell, 2009, 137, 356-368. | 28.9 | 683 |
| 2 | LBR and Lamin A/C Sequentially Tether Peripheral Heterochromatin and Inversely Regulate Differentiation. Cell, 2013, 152, 584-598. | 28.9 | 681 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Avian Ultraviolet/Violet Cones Identified as Probable Magnetoreceptors. PLoS ONE, 2011, 6, e20091. | 2.5 | 150 |
| 8 | Alpha and delta ganglion cells in the rat retina. Journal of Comparative Neurology, 1989, 286, 120-139. | 1.6 | 144 |
| 9 | 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 |
| 10 | Topography of cones and rods in the tree shrew retina. Journal of Comparative Neurology, 1989, 282, 581-594. | 1.6 | 130 |
| 11 | Alpha ganglion cells in the rabbit retina. Journal of Comparative Neurology, 1987, 263, 25-41. | 1.6 | 126 |
| 12 | 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 |
| 13 | Cone Photoreceptor Diversity in the Retinas of Fruit Bats (Megachiroptera). Brain, Behavior and Evolution, 2007, 70, 90-104. | 1.7 | 97 |
| 14 | Bat Eyes Have Ultraviolet-Sensitive Cone Photoreceptors. PLoS ONE, 2009, 4, e6390. | 2.5 | 91 |
| 15 | Magnetoreception: activated cryptochrome 1a concurs with magnetic orientation in birds. Journal of the Royal Society Interface, 2013, 10, 20130638. | 3.4 | 91 |
| 16 | Retinal Spectral Sensitivity, Fur Coloration, and Urine Reflectance in the GenusOctodon(Rodentia): Implications for Visual Ecology. , 2003, 44, 2290. | | 81 |
| 17 | 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 |
| 18 | Thyroid Hormone Controls Cone Opsin Expression in the Retina of Adult Rodents. Journal of Neuroscience, 2011, 31, 4844-4851. | 3.6 | 77 |

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|---|---|---|---|
| 19 | S cones: Evolution, retinal distribution, development, and spectral sensitivity. Visual Neuroscience, 2014, 31, 115-138. | 1.0 | 75 |
| 20 | Unusual cone and rod properties in subterranean African moleâ€rats (Rodentia, Bathyergidae). European Journal of Neuroscience, 2004, 19, 1545-1558. | 2.6 | 70 |
| 21 | Colour vision in aquatic mammalsâ€"facts and open questions. Aquatic Mammals, 2003, 29, 18-30. | 0.7 | 67 |
| 22 | 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 |
| 23 | Diversity of photoreceptor arrangements in nocturnal, cathemeral and diurnal Malagasy lemurs. Journal of Comparative Neurology, 2019, 527, 13-37. | 1.6 | 61 |
| 24 | Blue-Cone Horizontal Cells in the Retinae of Horses and OtherEquidae. Journal of Neuroscience, 1996, 16, 3381-3396. | 3.6 | 57 |
| 25 | DNA methylation reader MECP2: cell type- and differentiation stage-specific protein distribution. Epigenetics and Chromatin, 2014, 7, 17. | 3.9 | 55 |
| 26 | Eye and vision in the subterranean rodent cururo (Spalacopus cyanus, octodontidae). Journal of Comparative Neurology, 2005, 486, 197-208. | 1.6 | 53 |
| 27 | Photoreceptor types and distributions in the retinae of insectivores. Visual Neuroscience, 2000, 17, 937-948. | 1.0 | 52 |
| 28 | 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 |
| 29 | Cone photoreceptors and potential UV vision in a subterranean insectivore, the European mole. Journal of Vision, 2008, 8, 23. | 0.3 | 51 |
| 30 | Novel Rodent Models for Macular Research. PLoS ONE, 2010, 5, e13403. | 2.5 | 51 |
| 31 | Cryptochrome 1 in Retinal Cone Photoreceptors Suggests a Novel Functional Role in Mammals. Scientific Reports, 2016, 6, 21848. | 3.3 | 49 |
| 32 | Magnetoreception in birds: I. Immunohistochemical studies concerning the cryptochrome cycle. Journal of Experimental Biology, 2014, 217, 4221-4224. | 1.7 | 41 |
| 33 | Seasonally Changing Cryptochrome 1b Expression in the Retinal Ganglion Cells of a Migrating Passerine Bird. PLoS ONE, 2016, 11, e0150377. | 2.5 | 40 |
| 34 | 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 |
| 35 | Comparative Anatomy and Function of Mammalian Horizontal Cells. , 1998, , 147-172. | | 37 |
| 36 | Developmental Changes of Cone Opsin Expression but Not Retinal Morphology in the Hypothyroid Pax8 Knockout Mouse. , 2010, 51, 1719. | | 36 |

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| 37 | 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 |
| 38 | Visual Systems and the Role of Vision in Subterranean Rodents: Diversity of Retinal Properties and Visual System Designs. , 2007, , 129-160. | | 33 |
| 39 | Morphological types of ganglion cells in the dog and wolf retina. Journal of Comparative Neurology, 1992, 324, 590-602. | 1.6 | 32 |
| 40 | Starburst cholinergic amacrine cells in the tree shrew retina. , 1997, 389, 161-176. | | 31 |
| 41 | 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 |
| 42 | Horizontal cells of the rabbit retina are non-selectively connected to the cones. European Journal of Neuroscience, 1999, 11, 2261-2274. | 2.6 | 29 |
| 43 | Diurnality and Nocturnality in Primates: An Analysis from the Rod Photoreceptor Nuclei Perspective. Evolutionary Biology, 2014, 41, 1-11. | 1.1 | 27 |
| 44 | Rod bipolar cells in the cone-dominated retina of the tree shrew Tupaia belangeri. Visual Neuroscience, 1991, 6, 629-639. | 1.0 | 26 |
| 45 | 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 |
| 46 | Catecholaminergic amacrine cells in the dog and wolf retina. Visual Neuroscience, 1991, 7, 575-587. | 1.0 | 24 |
| 47 | The topography of cone photoreceptors in the retina of a diurnal rodent, the agouti (Dasyprocta) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.0 | 24 |
| 48 | Retinal Ganglion Cell Topography in Juvenile Harbor Seals <i>(Phoca vitulina)</i>. Brain, Behavior and Evolution, 2009, 74, 102-109. | 1.7 | 24 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Are field potentials an appropriate method for demonstrating connections in the brain?. Experimental Neurology, 1978, 60, 509-521. | 4.1 | 19 |
| 54 | Unique Distribution of Somatostatin-immunoreactive Cells in the Retina of the Tree Shrew (Tupaia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 2.6 | 17 |

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|---|---|---|---|
| 55 | Structure and Function of the Retina in Aquatic Tetrapods. , 2008, , 148-172. | | 14 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | Retinal Cone Photoreceptors of the Deer Mouse Peromyscus maniculatus: Development, Topography, Opsin Expression and Spectral Tuning. PLoS ONE, 2013, 8, e80910. | 2.5 | 13 |
| 60 | Cone bipolar cells in the retina of the microbat <i>Carollia perspicillata</i>. Journal of Comparative Neurology, 2015, 523, 963-981. | 1.6 | 12 |
| 61 | The horizontal cells of artiodactyl retinae: A comparison with Cajal's descriptions. Visual Neuroscience, 1996, 13, 735-746. | 1.0 | 10 |
| 62 | Thyroid Hormone Signaling in the Mouse Retina. PLoS ONE, 2016, 11, e0168003. | 2.5 | 10 |
| 63 | 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 |
| 64 | The Retina of Asian and African Elephants: Comparison of Newborn and Adult. Brain, Behavior and Evolution, 2017, 89, 84-103. | 1.7 | 7 |
| 65 | Retinal photoreceptor and ganglion cell types and topographies in the red fox (<scp><i>Vulpes) Tj ETQq1 1 0.784314 rgBT /Overlock Neurology, 2018, 526, 2078-2098. | 1.6 | 7 |
| 66 | Prinzipien der Bildverarbeitung in der Retina der SÃugetiere. Biologie in Unserer Zeit, 1992, 22, 45-53. | 0.2 | 4 |
| 67 | The rod signaling pathway in marsupial retinae. PLoS ONE, 2018, 13, e0202089. | 2.5 | 3 |
| 68 | Retinal Ganglion Cells. , 2009, , 3507-3513. | | 3 |
| 69 | Vor 100 Jahren: Julius Bernstein (1839â€"1917) formuliert seine â€œMembrantheorieâ€• E-Neuroforum, 2002, 8, . | 0.1 | 2 |
| 70 | 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 |
| 71 | Ophthalmology of Canidae: Foxes, Wolves, and Relatives. , 2022, , 181-214. | | 1 |
| 72 | â€œWie Tuschezeichnungen auf Japan-papierâ€• vor 90 Jahren erhielten Golgi und Cajal den Nobelpreis. E-Neuroforum, 1996, 2, 34-36. | 0.1 | 0 |

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|---|---|---|---|
| 73 | Vor 100 Jahren: Nobelpreis fÃ¼r Golgi und RamÃ³n y Cajal. E-Neuroforum, 2006, 12, 266-267. | 0.1 | 0 |
| 74 | Zellkerne als NachtsichtgerÃ¤t. Biologie in Unserer Zeit, 2009, 39, 154-155. | 0.2 | 0 |
| 75 | Living Optical Elements in the Vertebrate Retina. Biophysical Journal, 2009, 96, 527a. | 0.5 | 0 |