Paul D Gamlin

List of Publications by Year
in descending order

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62 papers	7,036 citations	109264 35 h-index	168321 53 g-index
62 all docs	62 docs citations	62 times ranked	4623 citing authors

#	Article	IF	Citations
1	Melanopsin-expressing ganglion cells in primate retina signal colour and irradiance and project to the LGN. Nature, 2005, 433, 749-754.	13.7	1,135
2	Measuring and using light in the melanopsin age. Trends in Neurosciences, 2014, 37, 1-9.	4.2	879
3	Human and macaque pupil responses driven by melanopsin-containing retinal ganglion cells. Vision Research, 2007, 47, 946-954.	0.7	512
4	Fireworks in the Primate Retina. Neuron, 2003, 37, 15-27.	3.8	293
5	Autonomic Control of the Eye. , 2015, 5, 439-473.		291
6	Neural control of vergence eye movements: neurons encoding vergence velocity. Journal of Neurophysiology, 1986, 56, 1007-1021.	0.9	272
7	The influence of intrinsically-photosensitive retinal ganglion cells on the spectral sensitivity and response dynamics of the human pupillary light reflex. Vision Research, 2010, 50, 72-87.	0.7	214
8	An area for vergence eye movement in primate frontal cortex. Nature, 2000, 407, 1003-1007.	13.7	170
9	The Edingerâ€Westphal nucleus: A historical, structural, and functional perspective on a dichotomous terminology. Journal of Comparative Neurology, 2011, 519, 1413-1434.	0.9	168
10	The Post-Illumination Pupil Response Is Reduced in Glaucoma Patients. , 2011, 52, 2287.		150
11	The pretectum: connections and oculomotor-related roles. Progress in Brain Research, 2006, 151, 379-405.	0.9	140
12	Neuronal circuitry controlling the near response. Current Opinion in Neurobiology, 1995, 5, 763-768.	2.0	139
13	Characteristics of near response cells projecting to the oculomotor nucleus. Journal of Neurophysiology, 1992, 67, 944-960.	0.9	128
14	Standards in Pupillography. Frontiers in Neurology, 2019, 10, 129.	1.1	124
15	Melanopsinâ€expressing ganglion cells on macaque and human retinas form two morphologically distinct populations. Journal of Comparative Neurology, 2016, 524, 2845-2872.	0.9	118
16	Post-illumination Pupil Response in Subjects without Ocular Disease. , 2010, 51, 2764.		117
17	Projections of the retinorecipient pretectal nuclei in the pigeon (columba livia). Journal of Comparative Neurology, 1988, 269, 18-46.	0.9	110
18	The Human Rhodopsin Kinase Promoter in an AAV5 Vector Confers Rod- and Cone-Specific Expression in the Primate Retina. Human Gene Therapy, 2012, 23, 1101-1115.	1.4	99

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19	Assessing Rod, Cone, and Melanopsin Contributions to Human Pupil Flicker Responses. , 2014, 55, 719.		99
20	Central projections of intrinsically photosensitive retinal ganglion cells in the macaque monkey. Journal of Comparative Neurology, 2014, 522, 2231-2248.	0.9	99
21	Retinal projections to the pretectum in the pigeon (columba livia). Journal of Comparative Neurology, 1988, 269, 1-17.	0.9	98
22	The neural substrate for the pupillary light reflex in the pigeon (Columba livia). Journal of Comparative Neurology, 1984, 226, 523-543.	0.9	96
23	Single-unit activity in the primate nucleus reticularis tegmenti pontis related to vergence and ocular accommodation. Journal of Neurophysiology, 1995, 73, 2115-2119.	0.9	96
24	Reduction in choroidal blood flow occurs in chicks wearing goggles that induce eye growth toward myopia. Current Eye Research, 1993, 12, 219-227.	0.7	93
25	Central projections of intrinsically photosensitive retinal ganglion cells in the macaque monkey. Journal of Comparative Neurology, 2014, 522, 2231-48.	0.9	86
26	Parasympathetic ocular control â€" functional subdivisions and circuitry of the avian nucleus of Edinger-Westphal. Trends in Neurosciences, 1983, 6, 140-145.	4.2	85
27	The Smooth Monostratified Ganglion Cell: Evidence for Spatial Diversity in the Y-Cell Pathway to the Lateral Geniculate Nucleus and Superior Colliculus in the Macaque Monkey. Journal of Neuroscience, 2008, 28, 12654-12671.	1.7	85
28	Interconnections between the primate cerebellum and midbrain near-response regions. Journal of Comparative Neurology, 1992, 315, 98-116.	0.9	82
29	Characteristics of the Pupillary Light Reflex in the Alert Rhesus Monkey. Journal of Neurophysiology, 2003, 89, 3179-3189.	0.9	82
30	Luminance neurons in the pretectal olivary nucleus mediate the pupillary light reflex in the rhesus monkey. Experimental Brain Research, 1995, 106, 169-76.	0.7	81
31	Antidromic identification of midbrain near response cells projecting to the oculomotor nucleus. Experimental Brain Research, 1991, 84, 525-8.	0.7	71
32	Highly Efficient Delivery of Adeno-Associated Viral Vectors to the Primate Retina. Human Gene Therapy, 2016, 27, 580-597.	1.4	68
33	The edinger-westphal nucleus: Sources of input influencing accommodation, pupilloconstriction, and choroidal blood flow. Journal of Comparative Neurology, 1991, 306, 425-438.	0.9	67
34	Somatic Gene Editing of GUCY2D by AAV-CRISPR/Cas9 Alters Retinal Structure and Function in Mouse and Macaque. Human Gene Therapy, 2019, 30, 571-589.	1.4	67
35	Pupil responses to stimulus color, structure and light flux increments in the rhesus monkey. Vision Research, 1998, 38, 3353-3358.	0.7	60
36	Optimization of Retinal Gene Therapy for X-Linked Retinitis Pigmentosa Due to RPGR Mutations. Molecular Therapy, 2017, 25, 1866-1880.	3.7	60

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37	Renewed Attention on the Pupil Light Reflex. Trends in Neurosciences, 2017, 40, 455-457.	4.2	60
38	A Safe and Reliable Technique for CNS Delivery of AAV Vectors in the Cisterna Magna. Molecular Therapy, 2020, 28, 411-421.	3.7	58
39	Primate Pupillary Light Reflex: Receptive Field Characteristics of Pretectal Luminance Neurons. Journal of Neurophysiology, 2003, 89, 3168-3178.	0.9	49
40	Projection of the nucleus pretectalis to a retinorecipient tectal layer in the pigeon (Columba livia). , 1996, 368, 424-438.		39
41	Motor nucleus activity fails to predict extraocular muscle forces in ocular convergence. Journal of Neurophysiology, 2011, 105, 2863-2873.	0.9	33
42	SubILM Injection of AAV for Gene Delivery to the Retina. Methods in Molecular Biology, 2019, 1950, 249-262.	0.4	29
43	Magnetic Transfer Contrast Accurately Localizes Substantia Nigra Confirmed by Histology. Biological Psychiatry, 2013, 73, 289-294.	0.7	27
44	Neural control of rapid binocular eye movements: Saccade-vergence burst neurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29123-29132.	3.3	22
45	Developing functional magnetic resonance imaging techniques for alert macaque monkeys. Methods, 2006, 38, 210-220.	1.9	20
46	Mapping the Macaque Superior Temporal Sulcus: Functional Delineation of Vergence and Version Eye-Movement-Related Activity. Journal of Neuroscience, 2015, 35, 7428-7442.	1.7	20
47	Implication of specific retinal cell-type involvement and gene expression changes in AMD progression using integrative analysis of single-cell and bulk RNA-seq profiling. Scientific Reports, 2021, 11, 15612.	1.6	20
48	Origins of direction selectivity in the primate retina. Nature Communications, 2022, 13, .	5.8	19
49	Central mesencephalic reticular formation control of the near response: lens accommodation circuits. Journal of Neurophysiology, 2019, 121, 1692-1703.	0.9	17
50	Immunotoxin-Induced Ablation of the Intrinsically Photosensitive Retinal Ganglion Cells in Rhesus Monkeys. Frontiers in Neurology, 2018, 9, 1000.	1.1	14
51	Vergence eye movements in patients with schizophrenia. Vision Research, 2014, 102, 64-70.	0.7	12
52	Editorial: The Pupil: Behavior, Anatomy, Physiology and Clinical Biomarkers. Frontiers in Neurology, 2020, 11, 211.	1.1	12
53	Extraocular muscle motor units characterized by spike-triggered averaging in alert monkey. Journal of Neuroscience Methods, 2012, 204, 159-167.	1.3	10
54	Ocular Convergence Deficits in Schizophrenia. Frontiers in Psychiatry, 2012, 3, 86.	1.3	9

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55	Melanopsin-driven pupil response in summer and winter in unipolar seasonal affective disorder. Journal of Affective Disorders, 2021, 291, 93-101.	2.0	9
56	Novel Methodology for Creating Macaque Retinas with Sortable Photoreceptors and Ganglion Cells. Frontiers in Neuroscience, 2016, 10, 551.	1.4	7
57	Cerebellar projections to the macaque midbrain tegmentum: Possible near response connections. Visual Neuroscience, 2021, 38, E007.	0.5	6
58	Is Primate Lens Accommodation Unilaterally or Bilaterally Controlled?. , 2020, 61, 5.		4
59	Vergence target selection in rhesus monkeys: behavior and modeling. Vision Research, 2005, 45, 731-747.	0.7	3
60	A Novel Tectal/Pretectal Population of Premotor Lens Accommodation Neurons. , 2022, 63, 35.		3
61	The Duncker illusion affects the perception of targets moving in depth. Journal of Vision, 2010, 3, 860-860.	0.1	0
62	0199 Iris color predicts melanopsin-driven retinal responses in older but not younger individuals. Sleep, 2022, 45, A91-A92.	0.6	0