

Paul Witkovsky

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

3,677
citations

32
h-index

58
g-index

58
ext. papers

3,847
ext. citations

4.1
avg. IF

5.24
L-index

#	Paper	IF	Citations
58	Dopamine and retinal function. <i>Documenta Ophthalmologica</i> , 2004 , 108, 17-40	2.2	564
57	Synaptic relationships in the plexiform layers of carp retina. <i>Cell and Tissue Research</i> , 1969 , 100, 60-82	4.2	198
56	Synaptic transmission at retinal ribbon synapses. <i>Progress in Retinal and Eye Research</i> , 2005 , 24, 682-720	20.5	187
55	Single neuron analysis of dorsal column nuclei and spinal nucleus of trigeminal in cat. <i>Journal of Neurophysiology</i> , 1961 , 24, 333-49	3.2	179
54	Chapter 10 Functional roles of dopamine in the vertebrate retina. <i>Progress in Retinal and Eye Research</i> , 1991 , 11, 247-292		177
53	Insulin enhances striatal dopamine release by activating cholinergic interneurons and thereby signals reward. <i>Nature Communications</i> , 2015 , 6, 8543	17.4	153
52	Pigmented retinal epithelium involvement in photoreceptor development and function. <i>The Journal of Experimental Zoology</i> , 1974 , 189, 357-78		114
51	Dopamine modifies the balance of rod and cone inputs to horizontal cells of the <i>Xenopus</i> retina. <i>Brain Research</i> , 1988 , 449, 332-6	3.7	109
50	Somatostatin modulates voltage-gated K(+) and Ca(2+) currents in rod and cone photoreceptors of the salamander retina. <i>Journal of Neuroscience</i> , 2000 , 20, 929-36	6.6	107
49	Synapses made by myelinated fibers running to teleost and elasmobranch retinas. <i>Journal of Comparative Neurology</i> , 1971 , 142, 205-21	3.4	99
48	The organization of dopaminergic neurons in vertebrate retinas. <i>Visual Neuroscience</i> , 1991 , 7, 113-24	1.7	93
47	Caffeine-sensitive calcium stores regulate synaptic transmission from retinal rod photoreceptors. <i>Journal of Neuroscience</i> , 1999 , 19, 7249-61	6.6	92
46	Retinal structure in the smooth dogfish, <i>Mustelus canis</i> : general description and light microscopy of giant ganglion cells. <i>Journal of Comparative Neurology</i> , 1973 , 148, 1-31	3.4	89
45	Gain of rod to horizontal cell synaptic transfer: relation to glutamate release and a dihydropyridine-sensitive calcium current. <i>Journal of Neuroscience</i> , 1997 , 17, 7297-306	6.6	80
44	Cellular location and circadian rhythm of expression of the biological clock gene Period 1 in the mouse retina. <i>Journal of Neuroscience</i> , 2003 , 23, 7670-6	6.6	80
43	Dopamine D2 receptor-mediated modulation of rod-cone coupling in the <i>Xenopus</i> retina. <i>Journal of Comparative Neurology</i> , 1998 , 398, 529-538	3.4	79
42	Mobilization of calcium from intracellular stores facilitates somatodendritic dopamine release. <i>Journal of Neuroscience</i> , 2009 , 29, 6568-79	6.6	76

41	Dogfish ganglion cell discharge resulting from extrinsic polarization of the horizontal cells. <i>Journal of Physiology</i> , 1972 , 223, 449-60	3.9	75
40	Chapter 7 Neuron-Glia interaction in the brain and retina. <i>Progress in Retinal and Eye Research</i> , 1985 , 4, 181-219		67
39	The nucleus basalis of the pigeon: a single-unit analysis. <i>Journal of Comparative Neurology</i> , 1973 , 147, 119-28	3.4	66
38	Retinal neurochemistry of three elasmobranch species: an immunohistochemical approach. <i>Journal of Comparative Neurology</i> , 1986 , 243, 1-12	3.4	60
37	The main sensory trigeminal nucleus in the pigeon: a single-unit analysis. <i>Journal of Comparative Neurology</i> , 1968 , 134, 255-64	3.4	58
36	D2-like dopamine receptors promote interactions between calcium and chloride channels that diminish rod synaptic transfer in the salamander retina. <i>Visual Neuroscience</i> , 2002 , 19, 235-47	1.7	55
35	Activity-dependent phosphorylation of tyrosine hydroxylase in dopaminergic neurons of the rat retina. <i>Journal of Neuroscience</i> , 2004 , 24, 4242-9	6.6	48
34	Retinal structure in the smooth dogfish, <i>Mustelus canis</i> : light microscopy of photoreceptor and horizontal cells. <i>Journal of Comparative Neurology</i> , 1973 , 148, 33-45	3.4	45
33	Synaptic connections linking cones and horizontal cells in the retina of the pikeperch (<i>Stizostedion vitreum</i>). <i>Journal of Comparative Neurology</i> , 1979 , 186, 541-59	3.4	43
32	Slow light and dark adaptation of horizontal cells in the <i>Xenopus</i> retina: a role for endogenous dopamine. <i>Visual Neuroscience</i> , 1990 , 5, 405-13	1.7	41
31	Anatomical and neurochemical characterization of dopaminergic interplexiform processes in mouse and rat retinas. <i>Journal of Comparative Neurology</i> , 2008 , 510, 158-74	3.4	40
30	Intracellular recording from identified photoreceptors and horizontal cells of the <i>Xenopus</i> retina. <i>Vision Research</i> , 1983 , 23, 921-31	2.1	39
29	Effects of submicromolar concentrations of dopamine on photoreceptor to horizontal cell communication. <i>Brain Research</i> , 1993 , 627, 122-8	3.7	37
28	Retinal structure in the smooth dogfish <i>Mustelus canis</i> : electron microscopy of serially sectioned bipolar cell synaptic terminals. <i>Journal of Comparative Neurology</i> , 1973 , 150, 147-67	3.4	37
27	Glutamate release by the intact light-responsive photoreceptor layer of the <i>Xenopus</i> retina. <i>Journal of Neuroscience Methods</i> , 1996 , 68, 55-60	3	36
26	Diurnal and circadian variation of protein kinase C immunoreactivity in the rat retina. <i>Journal of Comparative Neurology</i> , 2001 , 439, 140-50	3.4	32
25	Calcium and retinal function. <i>Molecular Neurobiology</i> , 2002 , 25, 113-32	6.2	31
24	Sub-millimolar cobalt selectively inhibits the receptive field surround of retinal neurons. <i>Visual Neuroscience</i> , 1999 , 16, 159-68	1.7	31

23	Rat retinal dopaminergic neurons: differential maturation of somatodendritic and axonal compartments. <i>Journal of Comparative Neurology</i> , 2005 , 481, 352-62	3.4	30
22	Identification of cone classes in <i>Xenopus</i> retina by immunocytochemistry and staining with lectins and vital dyes. <i>Visual Neuroscience</i> , 1994 , 11, 1185-92	1.7	29
21	Morphological changes induced in turtle retinal neurons by exposure to 6-hydroxydopamine and 5,6-dihydroxytryptamine. <i>Journal of Neurocytology</i> , 1987 , 16, 55-67		29
20	Uptake and localization of 3H-2 deoxy-D-glucose by retinal photoreceptors. <i>Journal of Comparative Neurology</i> , 1982 , 204, 105-16	3.4	29
19	Retinal structure in the smooth dogfish, <i>Mustelus canis</i> : light microscopy of bipolar cells. <i>Journal of Comparative Neurology</i> , 1973 , 148, 47-59	3.4	29
18	A functional analysis of neurons in the dorsal column nuclei and spinal nucleus of the trigeminal in the reptile (<i>Alligator mississippiensis</i>). <i>Journal of Comparative Neurology</i> , 1961 , 117, 97-105	3.4	29
17	Activation of metabotropic glutamate receptors decreases a high-threshold calcium current in spiking neurons of the <i>Xenopus</i> retina. <i>Visual Neuroscience</i> , 1996 , 13, 549-57	1.7	27
16	Dopaminergic neurons in the retina of <i>Xenopus laevis</i> : amacrine vs. interplexiform subtypes and relation to bipolar cells. <i>Cell and Tissue Research</i> , 1994 , 278, 45-56	4.2	18
15	Intracellular calcium reduces light-induced excitatory post-synaptic responses in salamander retinal ganglion cells. <i>Journal of Physiology</i> , 2001 , 532, 43-53	3.9	16
14	Photoreceptor classes and transmission at the photoreceptor synapse in the retina of the clawed frog, <i>Xenopus laevis</i> . <i>Microscopy Research and Technique</i> , 2000 , 50, 338-46	2.8	16
13	Light-evoked contraction of red absorbing cones in the <i>Xenopus</i> retina is maximally sensitive to green light. <i>Visual Neuroscience</i> , 1992 , 8, 243-9	1.7	16
12	Differential distribution of voltage-gated calcium channels in dopaminergic neurons of the rat retina. <i>Journal of Comparative Neurology</i> , 2006 , 497, 384-96	3.4	15
11	Transmission at the photoreceptor synapse. <i>Progress in Brain Research</i> , 2001 , 131, 145-59	2.9	15
10	Morphology and synaptic connections of HRP-filled, axon-bearing horizontal cells in the <i>Xenopus</i> retina. <i>Journal of Comparative Neurology</i> , 1988 , 275, 29-38	3.4	15
9	Association of the AMPA receptor-related postsynaptic density proteins GRIP and ABP with subsets of glutamate-sensitive neurons in the rat retina. <i>Journal of Comparative Neurology</i> , 2002 , 449, 129-40	3.4	12
8	Photoreceptor-horizontal cell connectivity, synaptic transmission and neuromodulation 1995 , 155-193		12
7	Cellular localization and function of DARPP-32 in the rodent retina. <i>European Journal of Neuroscience</i> , 2007 , 25, 3233-42	3.5	8
6	Glycogen metabolism in an amphibian retina. <i>Experimental Eye Research</i> , 1986 , 43, 267-72	3.7	7

5	Retinal hexokinase: kinetic properties and the effect of cyclic 3 α 5adenosine monophosphate. <i>Journal of Neurochemistry</i> , 1983 , 41, 1694-701	6	3
4	Circuits and properties of signal transmission in the retina. <i>Journal of Neurophysiology</i> , 2006 , 96, 509-11	3,2	2
3	The Suprachiasmatic Nucleus (SCN) 2015 , 37-55		1
2	Dopamine D2 receptor-mediated modulation of rod-cone coupling in the <i>Xenopus</i> retina 1998 , 398, 529		1
1	Dopamine D2 receptor-mediated modulation of rod-cone coupling in the <i>Xenopus</i> retina 1998 , 398, 529		1