

# Paul Witkovsky

## List of Publications by Year in descending order

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57  
papers

4,123  
citations

126907

33  
h-index

155660

55  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dopamine and retinal function. Documenta Ophthalmologica, 2004, 108, 17-39.	2.2	669
2	Synaptic transmission at retinal ribbon synapses. Progress in Retinal and Eye Research, 2005, 24, 682-720.	15.5	219
3	Synaptic relationships in the plexiform layers of carp retina. Cell and Tissue Research, 1969, 100, 60-82.	2.9	214
4	Insulin enhances striatal dopamine release by activating cholinergic interneurons and thereby signals reward. Nature Communications, 2015, 6, 8543.	12.8	210
5	Chapter 10 Functional roles of dopamine in the vertebrate retina. Progress in Retinal and Eye Research, 1991, 11, 247-292.	0.8	202
6	SINGLE NEURON ANALYSIS OF DORSAL COLUMN NUCLEI AND SPINAL NUCLEUS OF TRIGEMINAL IN CAT. Journal of Neurophysiology, 1961, 24, 333-349.	1.8	192
7	Pigmented retinal epithelium involvement in photoreceptor development and function. The Journal of Experimental Zoology, 1974, 189, 357-377.	1.4	124
8	Dopamine modifies the balance of rod and cone inputs to horizontal cells of the Xenopus retina. Brain Research, 1988, 449, 332-336.	2.2	115
9	Somatostatin Modulates Voltage-Gated $K^{+}$ and $Ca^{2+}$ Currents in Rod and Cone Photoreceptors of the Salamander Retina. Journal of Neuroscience, 2000, 20, 929-936.	3.6	111
10	Synapses made by myelinated fibers running to teleost and elasmobranch retinas. Journal of Comparative Neurology, 1971, 142, 205-221.	1.6	103
11	Retinal structure in the smooth dogfish, <i>Mustelus canis</i> : General description and light microscopy of giant ganglion cells. Journal of Comparative Neurology, 1973, 148, 1-31.	1.6	102
12	Caffeine-Sensitive Calcium Stores Regulate Synaptic Transmission from Retinal Rod Photoreceptors. Journal of Neuroscience, 1999, 19, 7249-7261.	3.6	101
13	The organization of dopaminergic neurons in vertebrate retinas. Visual Neuroscience, 1991, 7, 113-124.	1.0	97
14	Mobilization of Calcium from Intracellular Stores Facilitates Somatodendritic Dopamine Release. Journal of Neuroscience, 2009, 29, 6568-6579.	3.6	89
15	Dopamine D2 receptor-mediated modulation of rod-cone coupling in the Xenopus retina. Journal of Comparative Neurology, 1998, 398, 529-538.	1.6	88
16	Dogfish ganglion cell discharge resulting from extrinsic polarization of the horizontal cells. Journal of Physiology, 1972, 223, 449-460.	2.9	87
17	Gain of Rod to Horizontal Cell Synaptic Transfer: Relation to Glutamate Release and a Dihydropyridine-Sensitive Calcium Current. Journal of Neuroscience, 1997, 17, 7297-7306.	3.6	87
18	Cellular Location and Circadian Rhythm of Expression of the Biological Clock Gene Period 1 in the Mouse Retina. Journal of Neuroscience, 2003, 23, 7670-7676.	3.6	83

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19	Chapter 7 Neuron & Glia interaction in the brain and retina. Progress in Retinal and Eye Research, 1985, 4, 181-219.	0.8	79
20	The nucleus basalis of the pigeon: A single-unit analysis. Journal of Comparative Neurology, 1973, 147, 119-128.	1.6	71
21	Retinal neurochemistry of three elasmobranch species: An immunohistochemical approach. Journal of Comparative Neurology, 1986, 243, 1-12.	1.6	64
22	The main sensory trigeminal nucleus in the pigeon: A single-unit analysis. Journal of Comparative Neurology, 1968, 134, 255-263.	1.6	63
23	D2-like dopamine receptors promote interactions between calcium and chloride channels that diminish rod synaptic transfer in the salamander retina. Visual Neuroscience, 2002, 19, 235-247.	1.0	57
24	Activity-Dependent Phosphorylation of Tyrosine Hydroxylase in Dopaminergic Neurons of the Rat Retina. Journal of Neuroscience, 2004, 24, 4242-4249.	3.6	54
25	Anatomical and neurochemical characterization of dopaminergic interplexiform processes in mouse and rat retinas. Journal of Comparative Neurology, 2008, 510, 158-174.	1.6	52
26	Retinal structure in the smooth dogfish, <i>Mustelus canis</i> : Light microscopy of photoreceptor and horizontal cells. Journal of Comparative Neurology, 1973, 148, 33-45.	1.6	51
27	Synaptic connections linking cones and horizontal cells in the retina of the pikeperch ( <i>Stizostedion</i> ) Tj ETQq1 1 0.784314 rgBT /Overl 1.6	1.6	45
28	Slow light and dark adaptation of horizontal cells in the <i>Xenopus</i> retina: A role for endogenous dopamine. Visual Neuroscience, 1990, 5, 405-413.	1.0	42
29	Retinal structure in the smooth dogfish <i>Mustelus canis</i> : electron microscopy of serially sectioned bipolar cell synaptic terminals. Journal of Comparative Neurology, 1973, 150, 147-167.	1.6	40
30	Intracellular recording from identified photoreceptors and horizontal cells of the <i>Xenopus</i> retina. Vision Research, 1983, 23, 921-931.	1.4	39
31	Effects of submicromolar concentrations of dopamine on photoreceptor to horizontal cell communication. Brain Research, 1993, 627, 122-128.	2.2	38
32	Glutamate release by the intact light-responsive photoreceptor layer of the <i>Xenopus</i> retina. Journal of Neuroscience Methods, 1996, 68, 55-60.	2.5	38
33	Diurnal and circadian variation of protein kinase C immunoreactivity in the rat retina. Journal of Comparative Neurology, 2001, 439, 140-150.	1.6	38
34	Retinal structure in the smooth dogfish, <i>Mustelus canis</i> : Light microscopy of bipolar cells. Journal of Comparative Neurology, 1973, 148, 47-59.	1.6	34
35	Sub-millimolar cobalt selectively inhibits the receptive field surround of retinal neurons. Visual Neuroscience, 1999, 16, 159-168.	1.0	33
36	Calcium and Retinal Function. Molecular Neurobiology, 2002, 25, 113-132.	4.0	33

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37	Rat retinal dopaminergic neurons: Differential maturation of somatodendritic and axonal compartments. <i>Journal of Comparative Neurology</i> , 2005, 481, 352-362.	1.6	33
38	Identification of cone classes in <i>Xenopus</i> retina by immunocytochemistry and staining with lectins and vital dyes. <i>Visual Neuroscience</i> , 1994, 11, 1185-1192.	1.0	32
39	Uptake and localization of <sup>3</sup> H-2 deoxy-D-glucose by retinal photoreceptors. <i>Journal of Comparative Neurology</i> , 1982, 204, 105-116.	1.6	30
40	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.	1.5	30
41	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.	1.6	29
42	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, 549-557.	1.0	28
43	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, 338-346.	2.2	20
44	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.	2.9	18
45	Intracellular calcium reduces light-induced excitatory postsynaptic responses in salamander retinal ganglion cells. <i>Journal of Physiology</i> , 2001, 532, 43-53.	2.9	18
46	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, 243-249.	1.0	17
47	Photoreceptor-horizontal cell connectivity, synaptic transmission and neuromodulation. , 1995, , 155-193.		17
48	Chapter 9 Transmission at the photoreceptor synapse. <i>Progress in Brain Research</i> , 2001, 131, 145-159.	1.4	16
49	Differential distribution of voltage-gated calcium channels in dopaminergic neurons of the rat retina. <i>Journal of Comparative Neurology</i> , 2006, 497, 384-396.	1.6	16
50	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.	1.6	15
51	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, 129-140.	1.6	12
52	Cellular localization and function of DARPP-32 in the rodent retina. <i>European Journal of Neuroscience</i> , 2007, 25, 3233-3242.	2.6	9
53	Glycogen metabolism in an amphibian retina. <i>Experimental Eye Research</i> , 1986, 43, 267-272.	2.6	7
54	Retinal Hexokinase: Kinetic Properties and the Effect of Cyclic 3',5'-Adenosine Monophosphate. <i>Journal of Neurochemistry</i> , 1983, 41, 1694-1701.	3.9	5

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55	Circuits and Properties of Signal Transmission in the Retina. Journal of Neurophysiology, 2006, 96, 509-511.	1.8	2
56	Dopamine D2 receptor-mediated modulation of rod-cone coupling in the Xenopus retina. , 1998, 398, 529.		1
57	Dopamine D2 receptor-mediated modulation of rod-cone coupling in the Xenopus retina. Journal of Comparative Neurology, 1998, 398, 529-538.	1.6	1