Peter Sterling

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5252/publications.pdf

Version: 2024-02-01

111 papers	9,498 citations	23567 58 h-index	39675 94 g-index
113 all docs	113 docs citations	113 times ranked	5570 citing authors

#	Article	IF	Citations
1	Why Deaths of Despair Are Increasing in the US and Not Other Industrial Nationsâ€"Insights From Neuroscience and Anthropology. JAMA Psychiatry, 2022, 79, 368.	11.0	38
2	Peter Sterling. Current Biology, 2021, 31, R103-R106.	3.9	1
3	Why I joined the Freedom Rides. Current Biology, 2021, 31, R766-R770.	3.9	0
4	We are all mutts. Current Biology, 2020, 30, R1063-R1064.	3.9	0
5	Richard H. Masland (1942â€"2019). Neuron, 2020, 105, 411-412.	8.1	0
6	Allostasis: A Brain-Centered, Predictive Mode of Physiological Regulation. Trends in Neurosciences, 2019, 42, 740-752.	8.6	121
7	Predictive regulation and human design. ELife, 2018, 7, .	6.0	14
8	Homeostasis vs Allostasis. JAMA Psychiatry, 2014, 71, 1192.	11.0	67
9	Some Principles of Retinal Design: The Proctor Lecture. , 2013, 54, 2267.		11
10	Why Do Axons Differ in Caliber?. Journal of Neuroscience, 2012, 32, 626-638.	3.6	328
11	Allostasis: A model of predictive regulation. Physiology and Behavior, 2012, 106, 5-15.	2.1	617
12	Cone synapses in macaque fovea: I. Two types of non-S cones are distinguished by numbers of contacts with OFF midget bipolar cells. Visual Neuroscience, 2011, 28, 3-16.	1.0	4
13	Natural Images from the Birthplace of the Human Eye. PLoS ONE, 2011, 6, e20409.	2.5	79
14	Cone synapses in macaque fovea: II. Dendrites of OFF midget bipolar cells exhibit Inner Densities similar to their Outer synaptic Densities in basal contacts with cone terminals. Visual Neuroscience, 2011, 28, 17-28.	1.0	3
15	Retina is structured to process an excess of darkness in natural scenes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17368-17373.	7.1	171
16	Design of a Trichromatic Cone Array. PLoS Computational Biology, 2010, 6, e1000677.	3.2	47
17	How the Optic Nerve Allocates Space, Energy Capacity, and Information. Journal of Neuroscience, 2009, 29, 7917-7928.	3.6	201
18	Loss of Sensitivity in an Analog Neural Circuit. Journal of Neuroscience, 2009, 29, 3045-3058.	3.6	30

#	Article	IF	Citations
19	Physiology and Morphology of Color-Opponent Ganglion Cells in a Retina Expressing a Dual Gradient of S and M Opsins. Journal of Neuroscience, 2009, 29, 2706-2724.	3.6	46
20	Receptive fields and functional architecture in the retina. Journal of Physiology, 2009, 587, 2753-2767.	2.9	116
21	Different types of ganglion cell share a synaptic pattern. Journal of Comparative Neurology, 2008, 507, 1871-1878.	1.6	27
22	Mobility and Turnover of Vesicles at the Synaptic Ribbon. Journal of Neuroscience, 2008, 28, 3150-3158.	3.6	40
23	Design of a Neuronal Array. Journal of Neuroscience, 2008, 28, 3178-3189.	3.6	132
24	Evidence That Vesicles Undergo Compound Fusion on the Synaptic Ribbon. Journal of Neuroscience, 2008, 28, 5403-5411.	3.6	93
25	How robust is a neural circuit?. Visual Neuroscience, 2007, 24, 563-571.	1.0	11
26	Synaptic Ca2+ in Darkness Is Lower in Rods than Cones, Causing Slower Tonic Release of Vesicles. Journal of Neuroscience, 2007, 27, 5033-5042.	3.6	39
27	Microcircuitry for Two Types of Achromatic Ganglion Cell in Primate Fovea. Journal of Neuroscience, 2007, 27, 2646-2653.	3.6	58
28	<i>Retinal Development</i>, edited by E. Sernagor, S. Eglen, W. Harris, and R. Wong. Visual Neuroscience, 2007, 24, 763-763.	1.0	0
29	How Much the Eye Tells the Brain. Current Biology, 2006, 16, 1428-1434.	3.9	193
30	Displaced GAD65 amacrine cells of the guinea pig retina are morphologically diverse. Visual Neuroscience, 2006, 23, 931-939.	1.0	19
31	Chromatic Properties of Horizontal and Ganglion Cell Responses Follow a Dual Gradient in Cone Opsin Expression. Journal of Neuroscience, 2006, 26, 12351-12361.	3.6	51
32	Sluggish and Brisk Ganglion Cells Detect Contrast With Similar Sensitivity. Journal of Neurophysiology, 2005, 93, 2388-2395.	1.8	16
33	Structure and function of ribbon synapses. Trends in Neurosciences, 2005, 28, 20-29.	8.6	304
34	Encoding Light Intensity by the Cone Photoreceptor Synapse. Neuron, 2005, 48, 555-562.	8.1	69
35	How Retinal Ganglion Cells Prevent Synaptic Noise From Reaching the Spike Output. Journal of Neurophysiology, 2004, 92, 2510-2519.	1.8	23
36	Visualizing Synaptic Ribbons in the Living Cell. Journal of Neuroscience, 2004, 24, 9752-9759.	3.6	135

#	Article	IF	Citations
37	Evidence That Each S Cone in Macaque Fovea Drives One Narrow-Field and Several Wide-Field Blue-Yellow Ganglion Cells. Journal of Neuroscience, 2004, 24, 8366-8378.	3.6	26
38	A Retinal-Specific Regulator of G-Protein Signaling Interacts with GÂo and Accelerates an Expressed Metabotropic Glutamate Receptor 6 Cascade. Journal of Neuroscience, 2004, 24, 5684-5693.	3.6	52
39	Efficiency of Information Transmission by Retinal Ganglion Cells. Current Biology, 2004, 14, 1523-1530.	3.9	79
40	Evidence that certain retinal bipolar cells use both glutamate and GABA. Journal of Comparative Neurology, 2004, 478, 207-218.	1.6	42
41	Design for a Binary Synapse. Neuron, 2004, 41, 313-315.	8.1	5
42	Streamlined Synaptic Vesicle Cycle in Cone Photoreceptor Terminals. Neuron, 2004, 41, 755-766.	8.1	114
43	Matching neural morphology to molecular expression: Single cell injection following immunostaining. Journal of Neurocytology, 2003, 32, 245-251.	1.5	29
44	Two ribbon synaptic units in rod photoreceptors of macaque, human, and cat. Journal of Comparative Neurology, 2003, 455, 100-112.	1.6	46
45	Inner S-cone bipolar cells provide all of the central elements for S cones in macaque retina. Journal of Comparative Neurology, 2003, 457, 185-201.	1.6	46
46	Timing of Quantal Release from the Retinal Bipolar Terminal Is Regulated by a Feedback Circuit. Neuron, 2003, 38, 89-101.	8.1	43
47	Cell density ratios in a foveal patch in macaque retina. Visual Neuroscience, 2003, 20, 189-209.	1.0	85
48	Macaque Retina Contains an S-Cone OFF Midget Pathway. Journal of Neuroscience, 2003, 23, 9881-9887.	3.6	134
49	Endocytosis and Vesicle Recycling at a Ribbon Synapse. Journal of Neuroscience, 2003, 23, 4092-4099.	3.6	101
50	Contrast Threshold of a Brisk-Transient Ganglion Cell In Vitro. Journal of Neurophysiology, 2003, 89, 2360-2369.	1.8	38
51	cGMP modulates spike responses of retinal ganglion cells via a cGMP-gated current. Visual Neuroscience, 2002, 19, 373-380.	1.0	15
52	Needle from a Haystack. Neuron, 2002, 34, 670-672.	8.1	3
53	Light Response of Retinal ON Bipolar Cells Requires a Specific Splice Variant of GÎ±_o. Journal of Neuroscience, 2002, 22, 4878-4884.	3.6	116
54	Roles of ATP in Depletion and Replenishment of the Releasable Pool of Synaptic Vesicles. Journal of Neurophysiology, 2002, 88, 98-106.	1.8	84

#	Article	IF	Citations
55	Electrical Coupling between Mammalian Cones. Current Biology, 2002, 12, 1900-1907.	3.9	139
56	How MÃ¼ller glial cells in macaque fovea coat and isolate the synaptic terminals of cone photoreceptors. Journal of Comparative Neurology, 2002, 453, 100-111.	1.6	44
57	How neurons compute direction. Nature, 2002, 420, 375-376.	27.8	8
58	cGMP modulates spike responses of retinal ganglion cells via a cGMP-gated current. Visual Neuroscience, 2002, 19, 373-80.	1.0	7
59	Cellular Basis for the Response to Second-Order Motion Cues in Y Retinal Ganglion Cells. Neuron, 2001, 32, 711-721.	8.1	69
60	Bipolar Cells Contribute to Nonlinear Spatial Summation in the Brisk-Transient (Y) Ganglion Cell in Mammalian Retina. Journal of Neuroscience, 2001, 21, 7447-7454.	3.6	176
61	Microcircuits for Night Vision in Mouse Retina. Journal of Neuroscience, 2001, 21, 8616-8623.	3.6	300
62	Localization of mGluR6 to dendrites of ON bipolar cells in primate retina. Journal of Comparative Neurology, 2000, 423, 402-412.	1.6	190
63	ECT damage is easy to find if you look for it. Nature, 2000, 403, 242-242.	27.8	27
64	The Light Response of ON Bipolar Neurons Requires GÎ±o. Journal of Neuroscience, 2000, 20, 9053-9058.	3.6	193
65	Evidence That Different Cation Chloride Cotransporters in Retinal Neurons Allow Opposite Responses to GABA. Journal of Neuroscience, 2000, 20, 7657-7663.	3.6	171
66	Functional Circuitry of the Retinal Ganglion Cell's Nonlinear Receptive Field. Journal of Neuroscience, 1999, 19, 9756-9767.	3.6	165
67	Localization of Type I Inositol 1,4,5-Triphosphate Receptor in the Outer Segments of Mammalian Cones. Journal of Neuroscience, 1999, 19, 4221-4228.	3.6	27
68	AMPA Receptor Activates a G-Protein that Suppresses a cGMP-Gated Current. Journal of Neuroscience, 1999, 19, 2954-2959.	3.6	65
69	Deciphering the retina's wiring diagram. Nature Neuroscience, 1999, 2, 851-853.	14.8	7
70	Evidence that Circuits for Spatial and Color Vision Segregate at the First Retinal Synapse. Neuron, 1999, 24, 313-321.	8.1	103
71	â€œKnocking outâ€•a Neural Circuit. Neuron, 1998, 21, 643-644.	8.1	3
72	Functional architecture of primate cone and rod axons. Vision Research, 1998, 38, 2539-2549.	1.4	50

#	Article	IF	Citations
73	Neurochemistry of the mammalian cone `synaptic complex'. Vision Research, 1998, 38, 1359-1369.	1.4	92
74	Transmitter Concentration at a Three-Dimensional Synapse. Journal of Neurophysiology, 1998, 80, 3163-3172.	1.8	66
75	Microcircuitry and Mosaic of a Blueâ€"Yellow Ganglion Cell in the Primate Retina. Journal of Neuroscience, 1998, 18, 3373-3385.	3.6	213
76	Evidence That Vesicles on the Synaptic Ribbon of Retinal Bipolar Neurons Can Be Rapidly Released. Neuron, 1996, 16, 1221-1227.	8.1	269
77	Absence of spectrally specific lateral inputs to midget ganglion cells in primate retina. Nature, 1996, 381, 613-615.	27.8	98
78	Retinal neurons and vessels are not fractal but spaceâ€filling. Journal of Comparative Neurology, 1995, 361, 479-490.	1.6	89
79	Tuning retinal circuits. Nature, 1995, 377, 676-677.	27.8	30
80	Horizontal cells in cat and monkey retina express different isoforms of glutamic acid decarboxylase. Visual Neuroscience, 1994, 11, 135-142.	1.0	83
81	M and L cones in macaque fovea connect to midget ganglion cells by different numbers of excitatory synapses. Nature, 1994, 371, 70-72.	27.8	183
82	Subcellular localization of GABAA receptor on bipolar cells in macaque and human retina. Vision Research, 1994, 34, 1235-1246.	1.4	86
83	Identification of a G-protein in depolarizing rod bipolar cells. Visual Neuroscience, 1993, 10, 473-478.	1.0	72
84	Gap junctions between the pedicles of macaque foveal cones. Vision Research, 1992, 32, 1809-1815.	1.4	100
85	Parallel Circuits from Cones to the On-Beta Ganglion Cell. European Journal of Neuroscience, 1992, 4, 506-520.	2.6	47
86	Immunoreactivity to GABAA receptor in the outer plexiform layer of the cat retina. Journal of Comparative Neurology, 1992, 320, 394-397.	1.6	71
87	The retina. An approachable part of the brain. Cell, 1988, 53, 175-176.	28.9	0
88	Microcircuitry of the -beta ganglion cell in daylight, twilight, and starlight. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1987, 6, S269-S285.	0.0	13
89	Ultrastructure of synapses from the A-laminae of the lateral geniculate nucleus in layer IV of the cat striate cortex. Journal of Comparative Neurology, 1987, 260, 63-75.	1.6	24
90	Pattern of lateral geniculate synapses on neuron somata in layer IV of the cat striate cortex. Journal of Comparative Neurology, 1987, 260, 76-86.	1.6	15

#	Article	IF	Citations
91	Rod bipolar array in the cat retina: Pattern of input from rods and GABA-accumulating amacrine cells. Journal of Comparative Neurology, 1987, 266, 445-455.	1.6	107
92	Microcircuitry and functional architecture of the cat retina. Trends in Neurosciences, 1986, 9, 186-192.	8.6	76
93	Accumulation of (3H)glycine by cone bipolar neurons in the cat retina. Journal of Comparative Neurology, 1986, 250, 1-7.	1.6	87
94	Granule cells in the rat olfactory tubercle accumulate3H-Î³-aminobutyric acid. Journal of Comparative Neurology, 1983, 215, 465-471.	1.6	11
95	Four types of neuron in layer IVab of cat cortical area 17 accumulate3H-GABA. Journal of Comparative Neurology, 1983, 217, 449-457.	1.6	59
96	Four types of amacrine in the cat retina that accumulate GABA. Journal of Comparative Neurology, 1983, 219, 295-304.	1.6	62
97	Two types of GABA-accumulating neurons in the superficial gray layer of the cat superior colliculus. Journal of Comparative Neurology, 1982, 206, 180-192.	1.6	92
98	Biological basis of stress-related mortality. Social Science & Medicine Part E, Medical Psychology, 1981, 15, 3-42.	0.2	148
99	Neurons and glia in cat superior colliculus accumulate [3H] gamma-aminobutyric acid (GABA). Journal of Comparative Neurology, 1981, 202, 385-396.	1.6	45
100	Neurons in cat lateral geniculate nucleus that concentrate exogenous [3H]-?-aminobutyric acid (GABA). Journal of Comparative Neurology, 1980, 192, 737-749.	1.6	93
101	A systematic approach to reconstructing microcircuitry by electron microscopy of serial sections. Brain Research Reviews, 1980, 2, 265-293.	9.0	126
102	Microcircuitry of cat visual cortex: Classification of neurons in layer IV of area 17, and identification of the patterns of lateral geniculate input. Journal of Comparative Neurology, 1979, 188, 599-627.	1.6	112
103	Preparing autoradiograms of serial sections for electron microscopy. Journal of Neuroscience Methods, 1979, 1, 179-183.	2.5	28
104	Three-dimensional analysis of retinal neurons identified autoradiographically by utilizing selective uptake of [3H]-GABA: An electron microscope study in the cat. Neuroscience Letters, 1979, 11, 37.	2.1	0
105	An electron microscope study of motoneurones and interneurones in the cat abducens nucleus identified by retrograde intraaxonal transport of horseradish peroxidase. Journal of Comparative Neurology, 1977, 176, 65-85.	1.6	105
106	Synaptic termination of afferents from the ventrolateral nucleus of the thalamus in the cat motor cortex. A light and electron microscope study. Journal of Comparative Neurology, 1974, 153, 77-105.	1.6	161
107	Quantitative mapping with the electron microscope: retinal terminals in the superior colliculus. Brain Research, 1973, 54, 347-354.	2.2	87
108	Effect on the Superior Colliculus of Cortical Removal in Visually Deprived Cats. Nature, 1969, 224, 1032-1033.	27.8	55

#	Article	IF	Citations
109	Anatomical organization of the brachial spinal cord of the cat. III. The propriospinal connections. Brain Research, 1968, 7, 419-443.	2.2	138
110	Anatomical organization of the brachial spinal cord of the cat. I. The distribution of dorsal root fibers. Brain Research, 1967, 4, 1-15.	2.2	126
111	Anatomical organization of the brachial spinal cord of the cat. II. The motoneuron plexus. Brain Research, 1967, 4, 16-32.	2.2	167