

Gerald H Jacobs

List of Publications by Year in descending order

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155
papers

8,698
citations

36303

51
h-index

49909

87
g-index

162
all docs

162
docs citations

162
times ranked

3625
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Animal Color Vision. , 2022, , 2478-2486.		0
2	Photoreceptors. , 2022, , 5232-5237.		0
3	G-proteins Color Vision. , 2021, , 407-417.		0
4	Photopigments and the dimensionality of animal color vision. Neuroscience and Biobehavioral Reviews, 2018, 86, 108-130.	6.1	49
5	Evolution of Animal Color Vision. , 2018, , 1-9.		0
6	Photoreceptors. , 2018, , 1-5.		0
7	Evolution of Color Vision. , 2016, , 317-354.		2
8	Evolution of color vision and its reflections in contemporary mammals. , 2015, , 110-130.		5
9	The Discovery of Spectral Opponency in Visual Systems and its Impact on Understanding the Neurobiology of Color Vision. Journal of the History of the Neurosciences, 2014, 23, 287-314.	0.9	18
10	Losses of functional opsin genes, short-wavelength cone photopigments, and color visionâ€™A significant trend in the evolution of mammalian vision. Visual Neuroscience, 2013, 30, 39-53.	1.0	143
11	The Evolution of Vertebrate Color Vision. Advances in Experimental Medicine and Biology, 2012, 739, 156-172.	1.6	31
12	Color Vision Variation and Foraging Behavior in Wild Neotropical Titi Monkeys (<i>Callicebus brunneus</i>): Possible Mediating Roles for Spatial Memory and Reproductive Status. International Journal of Primatology, 2011, 32, 1058-1075.	1.9	20
13	Characterization of opsin gene alleles affecting color vision in a wild population of titi monkeys (<i>Callicebus brunneus</i>). American Journal of Primatology, 2011, 73, 189-196.	1.7	22
14	Cone pigments in a North American marsupial, the opossum (<i>Didelphis virginiana</i>). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 379-384.	1.6	8
15	The Verriest Lecture 2009: Recent progress in understanding mammalian color vision. Ophthalmic and Physiological Optics, 2010, 30, 422-434.	2.0	30
16	Duplicity Theory of Vision: From Newton to the Present, edited by B. Stabell and U. Stabell. 2009. Cambridge, Cambridge University Press.. Visual Neuroscience, 2010, 27, 75-76.	1.0	2
17	The Evolution of Primate Color Vision. Scientific American, 2009, 300, 56-63.	1.0	85
18	Evolution of colour vision in mammals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2957-2967.	4.0	254

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19	The Biology of Variations in Mammalian Color Vision. <i>Research and Perspectives in Neurosciences</i> , 2009, , 53-68.	0.4	1
20	Absence of functional short-wavelength sensitive cone pigments in hamsters (<i>Mesocricetus</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 429-439.	1.6	10
21	Early afferent signaling in the outer plexiform layer regulates development of horizontal cell morphology. <i>Journal of Comparative Neurology</i> , 2008, 506, 745-758.	1.6	64
22	Early afferent signaling in the outer plexiform layer regulates development of horizontal cell morphology. <i>Journal of Comparative Neurology</i> , 2008, 506, spc1-spc1.	1.6	0
23	Early afferent signaling in the outer plexiform layer regulates development of horizontal cell morphology. <i>Journal of Comparative Neurology</i> , 2008, 506, spc1-spc1.	1.6	0
24	Primate color vision: A comparative perspective. <i>Visual Neuroscience</i> , 2008, 25, 619-633.	1.0	195
25	Cone Pigments and Vision in the Mouse. , 2008, , 353-373.		0
26	Naturalistic color discriminations in polymorphic platyrrhine monkeys: Effects of stimulus luminance and duration examined with functional substitution. <i>Visual Neuroscience</i> , 2007, 24, 17-23.	1.0	16
27	Mutational changes in S-cone opsin genes common to both nocturnal and cathemeral <i>Aotus</i> monkeys. <i>American Journal of Primatology</i> , 2007, 69, 757-765.	1.7	35
28	Cone-based vision in the aging mouse. <i>Vision Research</i> , 2007, 47, 2037-2046.	1.4	53
29	Emergence of Novel Color Vision in Mice Engineered to Express a Human Cone Photopigment. <i>Science</i> , 2007, 315, 1723-1725.	12.6	209
30	Contributions of the mouse UV photopigment to the ERG and to vision. <i>Documenta Ophthalmologica</i> , 2007, 115, 137-144.	2.2	62
31	New World Monkeys and Color. <i>International Journal of Primatology</i> , 2007, 28, 729-759.	1.9	79
32	The Genetics and Evolution of Primate Visual Pigments. , 2006, , 73-97.		2
33	Visual pigments of marine carnivores: pinnipeds, polar bear, and sea otter. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2006, 192, 833-843.	1.6	89
34	L and M cone proportions in polymorphic New World monkeys. <i>Visual Neuroscience</i> , 2006, 23, 365-370.	1.0	15
35	Photoreceptors and photopigments in a subterranean rodent, the pocket gopher (<i>Thomomys bottae</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2005, 191, 125-134.	1.6	30
36	Rod and cone function in coneless mice. <i>Visual Neuroscience</i> , 2005, 22, 807-816.	1.0	15

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37	Polymorphic New World monkeys with more than three M/L cone types. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 2072.	1.5	37
38	Cone pigment polymorphism in New World monkeys: Are all pigments created equal?. <i>Visual Neuroscience</i> , 2004, 21, 217-222.	1.0	37
39	Evolution of vertebrate colour vision. <i>Australasian journal of optometry, The</i> , 2004, 87, 206-216.	1.3	84
40	Influence of cone pigment coexpression on spectral sensitivity and color vision in the mouse. <i>Vision Research</i> , 2004, 44, 1615-1622.	1.4	150
41	Photopigment Variations and the Evolution of Anthropoid Vision. , 2004, , 645-664.		3
42	Progress toward understanding the evolution of primate color vision. <i>Evolutionary Anthropology</i> , 2003, 11, 132-135.	3.4	11
43	Diurnality and cone photopigment polymorphism in strepsirrhines: Examination of linkage in <i>Lemur catta</i> . <i>American Journal of Physical Anthropology</i> , 2003, 122, 66-72.	2.1	28
44	Cone pigment variations in four genera of new world monkeys. <i>Vision Research</i> , 2003, 43, 227-236.	1.4	62
45	Spectral properties and retinal distribution of ferret cones. <i>Visual Neuroscience</i> , 2003, 20, 11-17.	1.0	38
46	Genetically engineered mice with an additional class of cone photoreceptors: Implications for the evolution of color vision. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11706-11711.	7.1	98
47	Topography of Photoreceptors and Retinal Ganglion Cells in the Spotted Hyena <i>>(Crocuta Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	42
48	Cone Photoreceptor Recovery after Experimental Detachment and Reattachment: An Immunocytochemical, Morphological, and Electrophysiological Study. , 2003, 44, 416.		87
49	Opsin gene and photopigment polymorphism in a prosimian primate. <i>Vision Research</i> , 2002, 42, 11-18.	1.4	119
50	An animal model for studying cone function in retinal detachment. <i>Documenta Ophthalmologica</i> , 2002, 104, 119-132.	2.2	23
51	Color Vision. , 2002, , 15-29.		0
52	Photopigments and colour vision in New World monkeys from the family Atelidae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 695-702.	2.6	66
53	Spectral Sensitivity of Gibbons: Implications for Photopigments and Color Vision. <i>Folia Primatologica</i> , 2001, 72, 26-29.	0.7	10
54	Rhodopsins and Phototransduction Novartis Foundation Symposium 224; Wiley, Chichester, 1999, 316 pages, ISBN: 0-471-98827-8, f75.00. <i>Ophthalmic and Physiological Optics</i> , 2001, 21, 424-425.	2.0	0

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55	The prevalence of defective color vision in Old World monkeys and apes. <i>Color Research and Application</i> , 2001, 26, S123-S127.	1.6	54
56	The prevalence of defective color vision in Old World monkeys and apes. <i>Color Research and Application</i> , 2001, 26, S123-S127.	1.6	3
57	Cone-based vision of rats for ultraviolet and visible lights. <i>Journal of Experimental Biology</i> , 2001, 204, 2439-2446.	1.7	208
58	Functional consequences of the relative numbers of L and M cones. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 607.	1.5	203
59	Human Cone Pigment Expressed in Transgenic Mice Yields Altered Vision. <i>Journal of Neuroscience</i> , 1999, 19, 3258-3265.	3.6	57
60	Uniformity of colour vision in Old World monkeys. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 2023-2028.	2.6	93
61	Prospects for trichromatic color vision in male Cebus monkeys. <i>Behavioural Brain Research</i> , 1999, 101, 109-112.	2.2	12
62	Cone receptor variations and their functional consequences in two species of hamster. <i>Visual Neuroscience</i> , 1999, 16, 53-63.	1.0	52
63	Spectral sensitivity of macaque monkeys measured with ERG flicker photometry. <i>Visual Neuroscience</i> , 1999, 16, 981-981.	1.0	0
64	A perspective on color vision in platyrrhine monkeys. <i>Vision Research</i> , 1998, 38, 3307-3313.	1.4	96
65	Photopigment basis for dichromatic color vision in cows, goats, and sheep. <i>Visual Neuroscience</i> , 1998, 15, 581-4.	1.0	104
66	Cone spectral sensitivity in the harbor seal (<i>Phoca vitulina</i>) and implications for color vision. <i>Canadian Journal of Zoology</i> , 1998, 76, 2114-2118.	1.0	13
67	Spectral sensitivity of macaque monkeys measured with ERG flicker photometry. <i>Visual Neuroscience</i> , 1997, 14, 921-928.	1.0	64
68	Electroretinogram flicker photometry and its applications. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 641.	1.5	99
69	ERG Measurements of the Spectral Sensitivity of Common Chimpanzee (<i>Pan troglodytes</i>). <i>Vision Research</i> , 1996, 36, 2587-2594.	1.4	52
70	Spectral sensitivity and photopigments of a nocturnal prosimian, the bushbaby (<i>Otolemur</i>)	1.5	50
71	Trichromatic colour vision in New World monkeys. <i>Nature</i> , 1996, 382, 156-158.	27.8	316
72	Regional variations in the relative sensitivity to UV light in the mouse retina. <i>Visual Neuroscience</i> , 1995, 12, 463-468.	1.0	79

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73	Genetic basis of photopigment variations in human dichromats. <i>Vision Research</i> , 1995, 35, 2095-2103.	1.4	63
74	Sensitivity to ultraviolet light in the gerbil (<i>Meriones unguiculatus</i>): Characteristics and mechanisms. <i>Vision Research</i> , 1994, 34, 1433-1441.	1.4	68
75	Spectral sensitivity, photopigments, and color vision in the guinea pig (<i>Cavia porcellus</i>).. <i>Behavioral Neuroscience</i> , 1994, 108, 993-1004.	1.2	64
76	Variations in primate color vision: Mechanisms and utility. <i>Evolutionary Anthropology</i> , 1994, 3, 196-205.	3.4	50
77	Photopigments underlying color vision in ringtail lemurs (<i>Lemur catta</i>) and brown lemurs (<i>Eulemur</i>) Tj ETQq1 1 0.784314 rgBTj/Overlo	1.7	91
78	THE DISTRIBUTION AND NATURE OF COLOUR VISION AMONG THE MAMMALS. <i>Biological Reviews</i> , 1993, 68, 413-471.	10.4	609
79	More than three different cone pigments among people with normal color vision. <i>Vision Research</i> , 1993, 33, 117-122.	1.4	193
80	Genetic basis of polymorphism in the color vision of platyrrhine monkeys. <i>Vision Research</i> , 1993, 33, 269-274.	1.4	77
81	Photopigments and color vision in the nocturnal monkey, <i>Aotus</i> . <i>Vision Research</i> , 1993, 33, 1773-1783.	1.4	168
82	Photopigments of dogs and foxes and their implications for canid vision. <i>Visual Neuroscience</i> , 1993, 10, 173-180.	1.0	81
83	ERG flicker photometric evaluation of spectral sensitivity in protanopes and protanomalous trichromats. <i>Documenta Ophthalmologica Proceedings Series</i> , 1993, , 25-31.	0.0	3
84	Data and interpretation in comparative color vision. <i>Behavioral and Brain Sciences</i> , 1992, 15, 40-41.	0.7	4
85	Ultraviolet Vision in Vertebrates. <i>American Zoologist</i> , 1992, 32, 544-554.	0.7	226
86	Cone photopigments in nocturnal and diurnal procyonids. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 171, 351-358.	1.6	55
87	The all-cone retina of the garter snake: spectral mechanisms and photopigment. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 170, 701-707.	1.6	23
88	Retinal receptors in rodents maximally sensitive to ultraviolet light. <i>Nature</i> , 1991, 353, 655-656.	27.8	380
89	Spectral sensitivity of vervet monkeys (<i>Cercopithecus aethiops sabaeus</i>) and the issue of catarrhine trichromacy. <i>American Journal of Primatology</i> , 1991, 23, 185-195.	1.7	11
90	Behavioral and electrophysiological sensitivity to temporally modulated visual stimuli in the ground squirrel. <i>Visual Neuroscience</i> , 1991, 6, 593-606.	1.0	4

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91	Flicker photometric ERG measurements of short wavelength sensitive cones. Documenta Ophthalmologica Proceedings Series, 1991, , 341-346.	0.0	9
92	Deuteranope spectral sensitivity measured with ERG flicker photometry. Documenta Ophthalmologica Proceedings Series, 1991, , 405-411.	0.0	3
93	Relationship between cone pigments and genes in deuteranomalous subjects. Documenta Ophthalmologica Proceedings Series, 1991, , 397-403.	0.0	1
94	<title>Evolution of mechanisms for color vision</title>. , 1990, 1250, 287.		7
95	Duplicity theory and ground squirrels: Linkages between photoreceptors and visual function. Visual Neuroscience, 1990, 5, 311-318.	1.0	19
96	Polymorphism in normal human color vision and its mechanism. Vision Research, 1990, 30, 621-636.	1.4	127
97	Discrimination of luminance and chromaticity differences by dichromatic and trichromatic monkeys. Vision Research, 1990, 30, 387-397.	1.4	13
98	Spectral sensitivity of cones in an ungulate. Visual Neuroscience, 1989, 2, 97-100.	1.0	55
99	Color vision in the dog. Visual Neuroscience, 1989, 3, 119-125.	1.0	152
100	Color vision variations in Old and New World primates. American Journal of Primatology, 1989, 18, 35-44.	1.7	19
101	Analysis of fusion gene and encoded photopigment of colour-blind humans. Nature, 1989, 342, 679-682.	27.8	65
102	Polymorphism of Cone Pigments among Color Normals: Evidence from Color Matching. Documenta Ophthalmologica Proceedings Series, 1989, , 27-34.	0.0	3
103	Spectral mechanisms in the tree squirrel retina. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1988, 162, 773-780.	1.6	34
104	Temporal properties of the short-wavelength cone mechanism: Comparison of receptor and postreceptor signals in the ground squirrel. Vision Research, 1988, 28, 1077-1082.	1.4	10
105	Early color deprivation and subsequent color vision in a dichromatic monkey. Vision Research, 1987, 27, 2009-2013.	1.4	47
106	Color vision polymorphism and its photopigment basis in a callitrichid monkey (<i>Saguinus fuscicollis</i>). Vision Research, 1987, 27, 2089-2100.	1.4	82
107	Polymorphism of the middle wavelength cone in two species of south american monkey: <i>Cebus apella</i> and <i>Callicebus moloch</i> . Vision Research, 1987, 27, 1263-1268.	1.4	66
108	Cone Pigment of the Great Horned Owl. Condor, 1987, 89, 434.	1.6	22

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109	Color vision variations in non-human primates. Trends in Neurosciences, 1986, 9, 320-323.	8.6	47
110	Spectral mechanisms and color vision in the tree shrew (<i>Tupaia belangeri</i>). Vision Research, 1986, 26, 291-298.	1.4	57
111	Reexamination of spectral mechanisms in the rat (<i>Rattus norvegicus</i>).. Journal of Comparative Psychology (Washington, D C: 1983), 1986, 100, 21-29.	0.5	70
112	Polymorphism of the long-wavelength cone in normal human colour vision. Nature, 1986, 323, 623-625.	27.8	244
113	Color Vision in the Ring-Tailed Lemur (<i>Lemur catta</i>). Brain, Behavior and Evolution, 1985, 26, 154-166.	1.7	27
114	Spectral sensitivity of ground squirrel cones measured with ERG flicker photometry. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1985, 156, 503-509.	1.6	40
115	Color vision in squirrel monkeys: Sex-related differences suggest the mode of inheritance. Vision Research, 1985, 25, 141-143.	1.4	56
116	Visual System of the Squirrel Monkey. , 1985, , 271-293.		4
117	Within-species variations in visual capacity among squirrel monkeys (<i>Saimiri Sciureus</i>): Color vision. Vision Research, 1984, 24, 1267-1277.	1.4	106
118	Electroretinogram measurements of cone spectral sensitivity in dichromatic monkeys. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1984, 1, 1175.	1.5	80
119	Individual variations in color vision among squirrel monkeys (<i>Saimiri sciureus</i>) of different geographical origins.. Journal of Comparative Psychology (Washington, D C: 1983), 1984, 98, 347-357.	0.5	20
120	Within-species variations in visual capacity among squirrel monkeys (<i>Saimiri sciureus</i>): Sensitivity differences. Vision Research, 1983, 23, 239-248.	1.4	45
121	Differences in spectral response properties of lgn cells in male and female squirrel monkeys. Vision Research, 1983, 23, 461-468.	1.4	21
122	Visual acuity and spatial contrast sensitivity in tree squirrels. Behavioural Processes, 1982, 7, 367-375.	1.1	33
123	Color Vision in the Spider Monkey (<i>Ateles</i>). Folia Primatologica, 1982, 38, 86-98.	0.7	11
124	Visual sensitivity of ground squirrels to spatial and temporal luminance variations. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1980, 136, 291-299.	1.6	30
125	Rod photoreceptors and scotopic vision in ground squirrels. Journal of Comparative Neurology, 1980, 189, 113-125.	1.6	27
126	Spectrally-opponent responses in ground squirrel optic nerve. Vision Research, 1980, 20, 9-13.	1.4	19

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127	Spatial contrast sensitivity in albino and pigmented rats. <i>Vision Research</i> , 1979, 19, 933-937.	1.4	147
128	Spectral components in the wave of the ground squirrel electroretinogram. <i>Vision Research</i> , 1979, 19, 1243-1247.	1.4	10
129	Spectral sensitivity and colour vision in the ground-dwelling sciurids: Results from golden mantled ground squirrels and comparisons for five species. <i>Animal Behaviour</i> , 1978, 26, 409-421.	1.9	46
130	Spectral mechanisms in the retina of the Arctic ground squirrel. <i>Canadian Journal of Zoology</i> , 1977, 55, 1454-1460.	1.0	3
131	Visual capacities of the owl monkey (<i>Aotus trivirgatus</i>)â€”I. Spectral sensitivity and color vision. <i>Vision Research</i> , 1977, 17, 811-820.	1.4	37
132	Visual capacities of the owl monkey (<i>Aotus trivirgatus</i>)â€”II. Spatial contrast sensitivity. <i>Vision Research</i> , 1977, 17, 821-825.	1.4	91
133	Rods in the antelope ground squirrel. <i>Vision Research</i> , 1976, 16, 875-IV.	1.4	22
134	Electrophysiological evidence for rod and cone-based vision in the nocturnal flying squirrel. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1976, 109, 1-16.	1.6	4
135	Scotopic and photopic vision in the California ground squirrel: Physiological and anatomical evidence. <i>Journal of Comparative Neurology</i> , 1976, 165, 209-227.	1.6	57
136	Increment-threshold functions for different rodent species. <i>Vision Research</i> , 1975, 15, 375-378.	1.4	21
137	Behavioral measurements of rat spectral sensitivity. <i>Vision Research</i> , 1975, 15, 687-691.	1.4	32
138	Spectral sensitivity of the short wavelength mechanism in the squirrel monkey visual system. <i>Vision Research</i> , 1974, 14, 1271-1273.	1.4	0
139	Scotopic and Photopic Visual Capacities of an Arboreal Squirrel (<i>Sciurus niger</i>). <i>Brain, Behavior and Evolution</i> , 1974, 10, 307-321.	1.7	15
140	Visual sensitivity in the squirrel monkey. <i>American Journal of Physical Anthropology</i> , 1973, 38, 371-375.	2.1	7
141	Vision in the prairie dog: Spectral sensitivity and color vision.. <i>Journal of Comparative and Physiological Psychology</i> , 1973, 84, 240-245.	1.8	16
142	Increment-threshold spectral sensitivity in the squirrel monkey.. <i>Journal of Comparative and Physiological Psychology</i> , 1972, 79, 425-431.	1.8	15
143	Some characteristics of the eye and the electroretinogram of the prairie dog. <i>Experimental Neurology</i> , 1972, 37, 538-549.	4.1	8
144	Color vision and visual sensitivity in the California ground squirrel (<i>Citellus beecheyi</i>). <i>Vision Research</i> , 1972, 12, 1995-2004.	1.4	25

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145	Visual sensitivity and color vision in ground squirrels. <i>Vision Research</i> , 1971, 11, 511-537.	1.4	52
146	Spectral sensitivity of non-opponent cells in the lateral geniculate nucleus. <i>Vision Research</i> , 1971, 11, 1179-1182.	1.4	3
147	Vision1 1This review and the research reported by the writers have been supported by research grants GB-15969 and GB-12303 from the National Science Foundation and EY-00014 from the National Eye Institute, U.S. Public Health Service.. <i>Behavior of Non-human Primates</i> , 1971, 3, 107-157.	0.5	4
148	Center-surround balance in receptive fields of cells in the lateral geniculate nucleus. <i>Vision Research</i> , 1970, 10, 1127-1144.	1.4	37
149	Dichromacy in the Ground Squirrel. <i>Nature</i> , 1969, 223, 414-415.	27.8	17
150	Receptive fields in visual systems. <i>Brain Research</i> , 1969, 14, 553-573.	2.2	35
151	Chromatic Opponent Cells in Squirrel Monkey Lateral Geniculate Nucleus. <i>Nature</i> , 1965, 206, 487-489.	27.8	23
152	Single cells in squirrel monkey lateral geniculate nucleus with broad spectral sensitivity. <i>Vision Research</i> , 1964, 4, 221-233.	1.4	30
153	Spectral sensitivity and color vision of the squirrel monkey.. <i>Journal of Comparative and Physiological Psychology</i> , 1963, 56, 616-621.	1.8	49
154	Electroretinogram of the squirrel monkey.. <i>Journal of Comparative and Physiological Psychology</i> , 1963, 56, 405-409.	1.8	9
155	Electroretinographic luminosity functions of the Aotus monkey. <i>American Journal of Physiology</i> , 1963, 204, 47-50.	5.0	19