Nicholas James Strausfeld

List of Publications by Year
in descending order

167 papers	12,415 citations	19657 61 h-index	30087 103 g-index
184 all docs	184 docs citations	184 times ranked	3821 citing authors

#	Article	IF	Citations
1	Biological Networks across Scalesâ€"The Theoretical and Empirical Foundations for Time-Varying Complex Networks that Connect Structure and Function across Levels of Biological Organization. Integrative and Comparative Biology, 2022, 61, 1991-2010.	2.0	5
2	Shore crabs reveal novel evolutionary attributes of the mushroom body. ELife, 2021, 10, .	6.0	6
3	The lobula plate is exclusive to insects. Arthropod Structure and Development, 2021, 61, 101031.	1.4	8
4	Convergent evolution of optic lobe neuropil in Pancrustacea. Arthropod Structure and Development, 2021, 61, 101040.	1.4	9
5	Mushroom bodies and reniform bodies coexisting in crabs cannot both be homologs of the insect mushroom body. Journal of Comparative Neurology, 2021, 529, 3265-3271.	1.6	3
6	Leanchoiliidae reveals the ancestral organization of the stem euarthropod brain. Current Biology, 2021, 31, 4397-4404.e2.	3.9	13
7	Mushroom bodies in Reptantia reflect a major transition in crustacean brain evolution. Journal of Comparative Neurology, 2020, 528, 261-282.	1.6	12
8	The reniform body: An integrative lateral protocerebral neuropil complex of Eumalacostraca identified in Stomatopoda and Brachyura. Journal of Comparative Neurology, 2020, 528, 1079-1094.	1.6	9
9	Ancestral regulatory mechanisms specify conserved midbrain circuitry in arthropods and vertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19544-19555.	7.1	21
10	<i>Nomen est omen</i>, cognitive dissonance, and homology of memory centers in crustaceans and insects. Journal of Comparative Neurology, 2020, 528, 2595-2601.	1.6	8
11	Mushroom body evolution demonstrates homology and divergence across Pancrustacea. ELife, 2020, 9, .	6.0	30
12	A Toll-receptor map underlies structural brain plasticity. ELife, 2020, 9, .	6.0	27
13	Mushroom bodies in crustaceans: Insectâ€like organization in the caridid shrimp <i>Lebbeus groenlandicus</i>. Journal of Comparative Neurology, 2019, 527, 2371-2387.	1.6	15
14	Multiple spectral channels in branchiopods. I. Vision in dim light and neural correlates. Journal of Experimental Biology, 2018, 221, .	1.7	3
15	Representation of the stomatopod's retinal midband in the optic lobes: Putative neural substrates for integrating chromatic, achromatic and polarization information. Journal of Comparative Neurology, 2018, 526, 1148-1165.	1.6	10
16	Editorial. Arthropod Structure and Development, 2018, 47, 1.	1.4	1
17	Neural organization of afferent pathways from the stomatopod compound eye. Journal of Comparative Neurology, 2017, 525, 3010-3030.	1.6	18
18	Editorial. Arthropod Structure and Development, 2017, 46, 1.	1.4	1

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19	Insect-Like Organization of the Stomatopod Central Complex: Functional and Phylogenetic Implications. Frontiers in Behavioral Neuroscience, 2017, 11, 12.	2.0	33
20	An insect-like mushroom body in a crustacean brain. ELife, 2017, 6, .	6.0	43
21	The larval nervous system of the penis worm<i>Priapulus caudatus</i>(Ecdysozoa). Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150050.	4.0	23
22	Fossils and the Evolution of the Arthropod Brain. Current Biology, 2016, 26, R989-R1000.	3.9	38
23	Genealogical correspondence of a forebrain centre implies an executive brain in the protostomeâ€"deuterostome bilaterian ancestor. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150055.	4.0	45
24	Introduction to â€˜Homology and convergence in nervous system evolutionâ€™. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150034.	4.0	9
25	Waptia revisited: Intimations of behaviors. Arthropod Structure and Development, 2016, 45, 173-184.	1.4	20
26	Arthropod eyes: The early Cambrian fossil record and divergent evolution of visual systems. Arthropod Structure and Development, 2016, 45, 152-172.	1.4	64
27	Preservational Pathways of Corresponding Brains of a Cambrian Euarthropod. Current Biology, 2015, 25, 2969-2975.	3.9	51
28	Unlocking the early fossil record of the arthropod central nervous system. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150038.	4.0	37
29	Central projections of antennular chemosensory and mechanosensory afferents in the brain of the terrestrial hermit crab (Coenobita clypeatus; Coenobitidae, Anomura). Frontiers in Neuroanatomy, 2015, 9, 94.	1.7	16
30	Introduction to â€˜Origin and evolution of the nervous systemâ€™. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150033.	4.0	8
31	Palaeontology: Clearing the Heads of Cambrian Arthropods. Current Biology, 2015, 25, R616-R618.	3.9	3
32	Evolutionarily conserved mechanisms for the selection and maintenance of behavioural activity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150053.	4.0	52
33	Genealogical Correspondence of Mushroom Bodies across Invertebrate Phyla. Current Biology, 2015, 25, 38-44.	3.9	74
34	The Insect Brain: A COMMENTATED PRIMER. , 2015, , 597-639.		8
35	Responses of<i>Drosophila</i>giant descending neurons to visual and mechanical stimuli. Journal of Experimental Biology, 2014, 217, 2121-9.	1.7	28
36	Cong et al. reply. Nature, 2014, 516, E3-E4.	27.8	7

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37	An exceptionally preserved arthropod cardiovascular system from the early Cambrian. Nature Communications, 2014, 5, 3560.	12.8	39
38	A Systematic Nomenclature for the Insect Brain. Neuron, 2014, 81, 755-765.	8.1	564
39	Brain structure resolves the segmental affinity of anomalocaridid appendages. Nature, 2014, 513, 538-542.	27.8	136
40	A letter from the Editors. Arthropod Structure and Development, 2014, 43, 1.	1.4	0
41	A precocious adult visual center in the larva defines the unique optic lobe of the split-eyed whirligig beetle Dineutus sublineatus. Frontiers in Zoology, 2013, 10, 7.	2.0	11
42	Deep Homology of Arthropod Central Complex and Vertebrate Basal Ganglia. Science, 2013, 340, 157-161.	12.6	290
43	Homology versus Convergence in Resolving Transphyletic Correspondences of Brain Organization. Brain, Behavior and Evolution, 2013, 82, 215-219.	1.7	31
44	Chelicerate neural ground pattern in a Cambrian great appendage arthropod. Nature, 2013, 502, 364-367.	27.8	123
45	Optic Glomeruli and Their Inputs in<i>Drosophila</i>Share an Organizational Ground Pattern with the Antennal Lobes. Journal of Neuroscience, 2012, 32, 6061-6071.	3.6	91
46	Complex brain and optic lobes in an early Cambrian arthropod. Nature, 2012, 490, 258-261.	27.8	168
47	Representation of the brain's superior protocerebrum of the flesh fly, <i>Neobellieria bullata</i>, in the central body. Journal of Comparative Neurology, 2012, 520, 3070-3087.	1.6	29
48	The minute brain of the copepod <i>Tigriopus californicus</i> supports a complex ancestral ground pattern of the tetraconate cerebral nervous systems. Journal of Comparative Neurology, 2012, 520, 3446-3470.	1.6	38
49	Neuronal organization of the hemiellipsoid body of the land hermit crab, <i>Coenobita clypeatus</i>: Correspondence with the mushroom body ground pattern. Journal of Comparative Neurology, 2012, 520, 2824-2846.	1.6	52
50	Visual inputs to the mushroom body calyces of the whirligig beetle <i>Dineutus sublineatus</i>: Modality switching in an insect. Journal of Comparative Neurology, 2012, 520, 2562-2574.	1.6	39
51	Visual inputs to the mushroom body calyces of the whirligig beetle Dineutus sublineatus: Modality switching in an insect. Journal of Comparative Neurology, 2012, 520, Spc1-Spc1.	1.6	36
52	A letter from the Editors. Arthropod Structure and Development, 2011, 40, 1.	1.4	0
53	A new view of insectâ€“crustacean relationships I. Inferences from neural cladistics and comparative neuroanatomy. Arthropod Structure and Development, 2011, 40, 276-288.	1.4	84
54	Preface. Arthropod Structure and Development, 2010, 39, 71.	1.4	0

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55	Dynamics of glutamatergic signaling in the mushroom body of young adult Drosophila. Neural Development, 2010, 5, 10.	2.4	50
56	Brain Homology: Dohrn of a New Era?. Brain, Behavior and Evolution, 2010, 76, 165-167.	1.7	8
57	Earlier Days. Journal of Neurogenetics, 2009, 23, 11-14.	1.4	0
58	The effect of age on a visual learning task in the American cockroach. Learning and Memory, 2009, 16, 210-223.	1.3	23
59	A letter from the Editors. Arthropod Structure and Development, 2009, 38, 1.	1.4	3
60	Neural organization of first optic neuropils in the littoral crab <i>Hemigrapsus oregonensis</i> and the semiterrestrial species <i>Chasmagnathus granulatus</i>. Journal of Comparative Neurology, 2009, 513, 129-150.	1.6	38
61	Ground plan of the insect mushroom body: Functional and evolutionary implications. Journal of Comparative Neurology, 2009, 513, 265-291.	1.6	200
62	Dimorphic Olfactory Lobes in the Arthropoda. Annals of the New York Academy of Sciences, 2009, 1170, 487-496.	3.8	16
63	Brain and Optic Lobes. , 2009, , 121-130.		2
64	Brain organization and the origin of insects: an assessment. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1929-1937.	2.6	106
65	Global and local modulatory supply to the mushroom bodies of the moth Spodoptera littoralis. Arthropod Structure and Development, 2008, 37, 260-272.	1.4	10
66	Johann FlÃ¶gel (1834â€"1918) and the birth of comparative insect neuroanatomy and brain nomenclature. Arthropod Structure and Development, 2008, 37, 434-441.	1.4	5
67	Dissection of the Peripheral Motion Channel in the Visual System of Drosophila melanogaster. Neuron, 2007, 56, 155-170.	8.1	243
68	Learning with half a brain. Developmental Neurobiology, 2007, 67, 740-751.	3.0	22
69	Organization of local interneurons in optic glomeruli of the dipterous visual system and comparisons with the antennal lobes. Developmental Neurobiology, 2007, 67, 1267-1288.	3.0	46
70	Visual system of calliphorid flies: Motion- and orientation-sensitive visual interneurons supplying dorsal optic glomeruli. Journal of Comparative Neurology, 2007, 500, 189-208.	1.6	31
71	Visual system of calliphorid flies: Organization of optic glomeruli and their lobula complex efferents. Journal of Comparative Neurology, 2007, 500, 166-188.	1.6	55
72	Diverse speed response properties of motion sensitive neurons in the flyâ€™s optic lobe. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2007, 193, 233-247.	1.6	4

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73	Arthropod phylogeny: onychophoran brain organization suggests an archaic relationship with a chelicerate stem lineage. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1857-1866.	2.6	148
74	Functional division of intrinsic neurons in the mushroom bodies of male Spodoptera littoralis revealed by antibodies against aspartate, taurine, FMRF-amide, Mas-allatotropin and DC0. Arthropod Structure and Development, 2006, 35, 153-168.	1.4	30
75	The organization and evolutionary implications of neuropils and their neurons in the brain of the onychophoran Euperipatoides rowelli. Arthropod Structure and Development, 2006, 35, 169-196.	1.4	98
76	Comparison of octopamine-like immunoreactivity in the brains of the fruit fly and blow fly. Journal of Comparative Neurology, 2006, 494, 460-475.	1.6	105
77	Development-dependent and -independent ubiquitin expression in divisions of the cockroach mushroom body. Journal of Comparative Neurology, 2006, 496, 556-571.	1.6	7
78	The evolution of crustacean and insect optic lobes and the origins of chiasmata. Arthropod Structure and Development, 2005, 34, 235-256.	1.4	127
79	Octopamine-like immunoreactivity in the honey bee and cockroach: Comparable organization in the brain and subesophageal ganglion. Journal of Comparative Neurology, 2005, 488, 233-254.	1.6	94
80	Organization of Kenyon cells in subdivisions of the mushroom bodies of a lepidopteran insect. Journal of Comparative Neurology, 2005, 491, 290-304.	1.6	40
81	Organization of optic lobes that support motion detection in a semiterrestrial crab. Journal of Comparative Neurology, 2005, 493, 396-411.	1.6	69
82	Sign-conserving amacrine neurons in the fly's external plexiform layer. Visual Neuroscience, 2005, 22, 345-358.	1.0	12
83	Memory consolidation and gene expression in Periplaneta americana. Learning and Memory, 2005, 12, 30-38.	1.3	22
84	Spatial learning in the restrained American cockroach <i>Periplaneta americana</i>. Journal of Experimental Biology, 2004, 207, 377-383.	1.7	31
85	The computational basis of an identified neuronal circuit for elementary motion detection in dipterous insects. Visual Neuroscience, 2004, 21, 567-586.	1.0	36
86	Chemical neuroanatomy of the fly's movement detection pathway. Journal of Comparative Neurology, 2004, 468, 6-23.	1.6	50
87	Development and morphology of Class II Kenyon cells in the mushroom bodies of the honey bee, <i>Apis mellifera</i>. Journal of Comparative Neurology, 2004, 474, 325-339.	1.6	60
88	A simple mushroom body in an African scarabid beetle. Journal of Comparative Neurology, 2004, 478, 219-232.	1.6	27
89	A comment from the editors. Arthropod Structure and Development, 2003, 32, 1.	1.4	0
90	A unique mushroom body substructure common to basal cockroaches and to termites. Journal of Comparative Neurology, 2003, 456, 305-320.	1.6	56

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91	Retinotopic pathways providing motion-selective information to the lobula from peripheral elementary motion-detecting circuits. Journal of Comparative Neurology, 2003, 457, 326-344.	1.6	28
92	Conserved and convergent organization in the optic lobes of insects and isopods, with reference to other crustacean taxa. Journal of Comparative Neurology, 2003, 467, 150-172.	1.6	119
93	Anatomical organization of retinotopic motion-sensitive pathways in the optic lobes of flies. Microscopy Research and Technique, 2003, 62, 132-150.	2.2	51
94	The mushroom bodies of <i>Drosophila melanogaster</i>: An immunocytological and golgi study of Kenyon cell organization in the calyces and lobes. Microscopy Research and Technique, 2003, 62, 151-169.	2.2	150
95	Common design in a unique midline neuropil in the brains of arthropods. Arthropod Structure and Development, 2002, 31, 77-91.	1.4	142
96	Organization of the honey bee mushroom body: Representation of the calyx within the vertical and gamma lobes. Journal of Comparative Neurology, 2002, 450, 4-33.	1.6	302
97	Development of laminar organization in the mushroom bodies of the cockroach: Kenyon cell proliferation, outgrowth, and maturation. Journal of Comparative Neurology, 2001, 439, 331-351.	1.6	62
98	Taurine-, aspartate- and glutamate-like immunoreactivity identifies chemically distinct subdivisions of Kenyon cells in the cockroach mushroom body. Journal of Comparative Neurology, 2001, 439, 352-367.	1.6	68
99	Exploitation of an Ancient Escape Circuit by an Avian Predator: Relationships between Taxon-Specific Prey Escape Circuits and the Sensitivity to Visual Cues from the Predator. Brain, Behavior and Evolution, 2001, 58, 218-240.	1.7	46
100	Pathways in Dipteran Insects for Early Visual Motion Processing. , 2001, , 68-82.		4
101	Parallel organization in honey bee mushroom bodies by peptidergic kenyon cells. Journal of Comparative Neurology, 2000, 424, 179-195.	1.6	71
102	Organization and significance of neurons that detect change of visual depth in the hawk mothManduca sexta. Journal of Comparative Neurology, 2000, 424, 356-376.	1.6	79
103	Erratum. Journal of Comparative Neurology, 2000, 428, 760-760.	1.6	3
104	Optic flow representation in the optic lobes of Diptera: modeling the role of T5 directional tuning properties. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2000, 186, 783-797.	1.6	6
105	Optic flow representation in the optic lobes of Diptera: modeling innervation matrices onto collators and their evolutionary implications. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2000, 186, 799-811.	1.6	6
106	Exploitation of an Ancient Escape Circuit by an Avian Predator: Prey Sensitivity to Model Predator Display in the Field. Brain, Behavior and Evolution, 2000, 56, 94-106.	1.7	50
107	Parallel organization in honey bee mushroom bodies by peptidergic Kenyon cells. Journal of Comparative Neurology, 2000, 424, 179-95.	1.6	22
108	Olfactory systems: common design, uncommon origins?. Current Opinion in Neurobiology, 1999, 9, 634-639.	4.2	211

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109	Organization of olfactory and multimodal afferent neurons supplying the calyx and pedunculus of the cockroach mushroom bodies. Journal of Comparative Neurology, 1999, 409, 603-625.	1.6	120
110	Representation of the calyces in the medial and vertical lobes of cockroach mushroom bodies. Journal of Comparative Neurology, 1999, 409, 626-646.	1.6	85
111	Multimodal efferent and recurrent neurons in the medial lobes of cockroach mushroom bodies. Journal of Comparative Neurology, 1999, 409, 647-663.	1.6	121
112	Chapter 24 A Brain Region in Insects That Supervises Walking. Progress in Brain Research, 1999, 123, 273-284.	1.4	101
113	Organization of olfactory and multimodal afferent neurons supplying the calyx and pedunculus of the cockroach mushroom bodies. Journal of Comparative Neurology, 1999, 409, 603-25.	1.6	34
114	Functionally and anatomically segregated visual pathways in the lobula complex of a calliphorid fly. Journal of Comparative Neurology, 1998, 396, 84-104.	1.6	31
115	Mushroom bodies of the cockroach: Activity and identities of neurons recorded in freely moving animals. Journal of Comparative Neurology, 1998, 402, 501-519.	1.6	115
116	Mushroom bodies of the cockroach: Their participation in place memory. Journal of Comparative Neurology, 1998, 402, 520-537.	1.6	269
117	Crustacean â€“ Insect Relationships: The Use of Brain Characters to Derive Phylogeny amongst Segmented Invertebrates. Brain, Behavior and Evolution, 1998, 52, 186-206.	1.7	195
118	Evolution, Discovery, and Interpretations of Arthropod Mushroom Bodies. Learning and Memory, 1998, 5, 11-37.	1.3	425
119	The Organization of Extrinsic Neurons and Their Implications in the Functional Roles of the Mushroom Bodies in<i>Drosophila melanogaster</i>Meigen. Learning and Memory, 1998, 5, 52-77.	1.3	274
120	The relevance of neural architecture to visual performance: Phylogenetic conservation and variation in dipteran visual systems. Journal of Comparative Neurology, 1997, 383, 282-304.	1.6	66
121	Morphology and sensory modality of mushroom body extrinsic neurons in the brain of the cockroach, Periplaneta americana. Journal of Comparative Neurology, 1997, 387, 631-650.	1.6	163
122	Morphology and sensory modality of mushroom body extrinsic neurons in the brain of the cockroach, Periplaneta americana. Journal of Comparative Neurology, 1997, 387, 631-650.	1.6	6
123	Visual Motion-Detection Circuits in Flies: Parallel Direction- and Non-Direction-Sensitive Pathways between the Medulla and Lobula Plate. Journal of Neuroscience, 1996, 16, 4551-4562.	3.6	90
124	Visual Motion-Detection Circuits in Flies: Small-Field Retinotopic Elements Responding to Motion Are Evolutionarily Conserved across Taxa. Journal of Neuroscience, 1996, 16, 4563-4578.	3.6	63
125	Oculomotor control in calliphorid flies: Organization of descending neurons to neck motor neurons responding to visual stimuli. Journal of Comparative Neurology, 1995, 361, 267-284.	1.6	53
126	Oculomotor control in calliphorid flies: Head movements during activation and inhibition of neck motor neurons corroborate neuroanatomical predictions. Journal of Comparative Neurology, 1995, 361, 285-297.	1.6	42

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127	Oculomotor control in calliphorid flies: GABAergic organization in heterolateral inhibitory pathways. Journal of Comparative Neurology, 1995, 361, 298-320.	1.6	38
128	Visual motion detection circuits in flies: peripheral motion computation by identified small-field retinotopic neurons. Journal of Neuroscience, 1995, 15, 5596-5611.	3.6	95
129	Flybrain, an on-line atlas and database of the Drosophila nervous system. Neuron, 1995, 15, 17-20.	8.1	54
130	Subdivision of the drosophila mushroom bodies by enhancer-trap expression patterns. Neuron, 1995, 15, 45-54.	8.1	336
131	Two visual systems in one brain: Neuropils serving the secondary eyes of the spiderCupiennius salei. Journal of Comparative Neurology, 1993, 328, 43-62.	1.6	107
132	Two visual systems in one brain: Neuropils serving the principal eyes of the spiderCupiennius salei. Journal of Comparative Neurology, 1993, 328, 63-75.	1.6	113
133	Small-field neurons associated with oculomotor control in muscoid flies: Cellular organization in the lobula plate. Journal of Comparative Neurology, 1992, 316, 56-71.	1.6	23
134	Smallâ€field neurons associated with oculomotor and optomotor control in muscoid flies: Functional organization. Journal of Comparative Neurology, 1992, 316, 72-86.	1.6	29
135	Premotor descending neurons responding selectively to local visual stimuli in flies. Journal of Comparative Neurology, 1992, 316, 87-103.	1.6	38
136	The Head-Neck System of the Blowfly Calliphora: 1. Anatomic Organization of Neck Muscles, Motoneurons, and Multimodal and Visual Inputs. , 1992, , 56-63.		2
137	Structural organization of male-specific visual neurons in calliphorid optic lobes. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1991, 169, 379-93.	1.6	53
138	The functional organization of male-specific visual neurons in flies. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1991, 169, 395-411.	1.6	84
139	Descending pathways connecting the male-specific visual system of flies to the neck and flight motor. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1991, 169, 413-26.	1.6	57
140	Neuronal basis for parallel visual processing in the fly. Visual Neuroscience, 1991, 7, 13-33.	1.0	150
141	Structure, distribution and number of surface sensilla and their receptor cells on the olfactory appendage of the male mothManduca sexta. Journal of Neurocytology, 1990, 19, 519-538.	1.5	103
142	Cluster organization and response characteristics of the giant fiber pathway of the blowfly <i>Calliphora erythrocephala</i>. Journal of Comparative Neurology, 1990, 294, 59-75.	1.6	63
143	Descending neurons supplying the neck and flight motor of diptera: Organization and neuroanatomical relationships with visual pathways. Journal of Comparative Neurology, 1990, 302, 954-972.	1.6	200
144	Descending neurons supplying the neck and flight motor of diptera: Physiological and anatomical characteristics. Journal of Comparative Neurology, 1990, 302, 973-991.	1.6	216

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145	Physiology and morphology of projection neurons in the antennal lobe of the male mothManduca sexta. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1989, 165, 427-453.	1.6	188
146	Insect Vision and Olfaction: Common Design Principles of Neuronal Organization. , 1989, , 319-353.		16
147	Beneath the Compound Eye: Neuroanatomical Analysis and Physiological Correlates in the Study of Insect Vision. , 1989, , 317-359.		135
148	The neck motor system of the flyCalliphora erythrocephala. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1987, 160, 205-224.	1.6	217
149	The neck motor system of the flyCalliphora erythrocephala. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1987, 160, 225-238.	1.6	195
150	Resolution of complex neuronal arrangements in the blowfly visual system using triple fluorescence staining. Cell and Tissue Research, 1987, 247, 5-10.	2.9	18
151	Visuo-motor pathways in arthropods. Die Naturwissenschaften, 1986, 73, 151-154.	1.6	144
152	The dipteran ?Giant fibre? pathway: neurons and signals. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1986, 158, 529-548.	1.6	88
153	Intersegmental sensory tracts and contralateral motor neurons in the leg ganglia of the spider Cupiennius salei Keys. Cell and Tissue Research, 1985, 241, 53-57.	2.9	21
154	Convergence of visual, haltere, and prosternai inputs at neck motor neurons of Calliphora erythrocephala. Cell and Tissue Research, 1985, 240, 601-615.	2.9	254
155	Lobula plate and ocellar interneurons converge onto a cluster of descending neurons leading to neck and leg motor neuropil in Calliphora erythrocephala. Cell and Tissue Research, 1985, 240, 617-640.	2.9	240
156	Organizational principles of outputs from Dipteran brains. Journal of Insect Physiology, 1984, 30, 73-93.	2.0	92
157	Cobalt-immunocytochemical identification of peptidergic neurons inCalliphora innervating central and peripheral targets. Journal of Neurocytology, 1983, 12, 847-861.	1.5	37
158	Cytology of cobalt-filled neurons in flies: cobalt deposits at presynaptic and postsynaptic sites, mitochondria and the cytoskeleton. Journal of Neurocytology, 1983, 12, 949-970.	1.5	12
159	Cobalt-coupled neurons of a giant fibre system in Diptera. Journal of Neurocytology, 1983, 12, 971-991.	1.5	220
160	Lucifer Yellow Histology. Springer Series in Experimental Entomology, 1983, , 132-155.	0.7	65
161	A pair of descending neurons with dendrites in the optic lobes projecting directly to thoracic ganglia of dipterous insects. Cell and Tissue Research, 1982, 226, 355-62.	2.9	8
162	Male and female visual neurones in dipterous insects. Nature, 1980, 283, 381-383.	27.8	66

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163	Vision in insects: pathways possibly underlying neural adaptation and lateral inhibition. Science, 1977, 195, 894-897.	12.6	135
164	The L4 monopolar neurone: a substrate for lateral interaction in the visual system of the flymusca domestica (L). Brain Research, 1973, 59, 97-117.	2.2	79
165	Synaptic connections of intrinsic cells and basket arborizations in the external plexiform layer of the fly's eye. Brain Research, 1973, 59, 119-136.	2.2	80
166	The compound eye of the fly (Musca domestica): connections between the cartridges of the lamina ganglionaris. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1970, 70, 95-104.	1.6	48
167	The Divergent Evolution of Arthropod Brains. , 0, , 31-70.		4