

Nicholas James Strausfeld

List of Publications by Year in descending order

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167
papers

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101
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184
all docs

184
docs citations

184
times ranked

3821
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Nomenclature for the Insect Brain. <i>Neuron</i> , 2014, 81, 755-765.	3.8	564
2	Evolution, Discovery, and Interpretations of Arthropod Mushroom Bodies. <i>Learning and Memory</i> , 1998, 5, 11-37.	0.5	425
3	Subdivision of the drosophila mushroom bodies by enhancer-trap expression patterns. <i>Neuron</i> , 1995, 15, 45-54.	3.8	336
4	Organization of the honey bee mushroom body: Representation of the calyx within the vertical and gamma lobes. <i>Journal of Comparative Neurology</i> , 2002, 450, 4-33.	0.9	302
5	Deep Homology of Arthropod Central Complex and Vertebrate Basal Ganglia. <i>Science</i> , 2013, 340, 157-161.	6.0	290
6	The Organization of Extrinsic Neurons and Their Implications in the Functional Roles of the Mushroom Bodies in <i>Drosophila melanogaster</i> Meigen. <i>Learning and Memory</i> , 1998, 5, 52-77.	0.5	274
7	Mushroom bodies of the cockroach: Their participation in place memory. , 1998, 402, 520-537.		269
8	Convergence of visual, haltere, and prosternal inputs at neck motor neurons of <i>Calliphora erythrocephala</i> . <i>Cell and Tissue Research</i> , 1985, 240, 601-615.	1.5	254
9	Dissection of the Peripheral Motion Channel in the Visual System of <i>Drosophila melanogaster</i> . <i>Neuron</i> , 2007, 56, 155-170.	3.8	243
10	Lobula plate and ocellar interneurons converge onto a cluster of descending neurons leading to neck and leg motor neuropil in <i>Calliphora erythrocephala</i> . <i>Cell and Tissue Research</i> , 1985, 240, 617-640.	1.5	240
11	Cobalt-coupled neurons of a giant fibre system in Diptera. <i>Journal of Neurocytology</i> , 1983, 12, 971-991.	1.6	220
12	The neck motor system of the fly <i>Calliphora erythrocephala</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1987, 160, 205-224.	0.7	217
13	Descending neurons supplying the neck and flight motor of diptera: Physiological and anatomical characteristics. <i>Journal of Comparative Neurology</i> , 1990, 302, 973-991.	0.9	216
14	Olfactory systems: common design, uncommon origins?. <i>Current Opinion in Neurobiology</i> , 1999, 9, 634-639.	2.0	211
15	Descending neurons supplying the neck and flight motor of diptera: Organization and neuroanatomical relationships with visual pathways. <i>Journal of Comparative Neurology</i> , 1990, 302, 954-972.	0.9	200
16	Ground plan of the insect mushroom body: Functional and evolutionary implications. <i>Journal of Comparative Neurology</i> , 2009, 513, 265-291.	0.9	200
17	The neck motor system of the fly <i>Calliphora erythrocephala</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1987, 160, 225-238.	0.7	195
18	Crustacean – Insect Relationships: The Use of Brain Characters to Derive Phylogeny amongst Segmented Invertebrates. <i>Brain, Behavior and Evolution</i> , 1998, 52, 186-206.	0.9	195

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19	Physiology and morphology of projection neurons in the antennal lobe of the male moth <i>Manduca sexta</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1989, 165, 427-453.	0.7	188
20	Complex brain and optic lobes in an early Cambrian arthropod. <i>Nature</i> , 2012, 490, 258-261.	13.7	168
21	Morphology and sensory modality of mushroom body extrinsic neurons in the brain of the cockroach, <i>Periplaneta americana</i> . <i>Journal of Comparative Neurology</i> , 1997, 387, 631-650.	0.9	163
22	Neuronal basis for parallel visual processing in the fly. <i>Visual Neuroscience</i> , 1991, 7, 13-33.	0.5	150
23	The mushroom bodies of <i>Drosophila melanogaster</i> : An immunocytochemical and golgi study of Kenyon cell organization in the calyces and lobes. <i>Microscopy Research and Technique</i> , 2003, 62, 151-169.	1.2	150
24	Arthropod phylogeny: onychophoran brain organization suggests an archaic relationship with a chelicerate stem lineage. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1857-1866.	1.2	148
25	Visuo-motor pathways in arthropods. <i>Die Naturwissenschaften</i> , 1986, 73, 151-154.	0.6	144
26	Common design in a unique midline neuropil in the brains of arthropods. <i>Arthropod Structure and Development</i> , 2002, 31, 77-91.	0.8	142
27	Brain structure resolves the segmental affinity of anomalocaridid appendages. <i>Nature</i> , 2014, 513, 538-542.	13.7	136
28	Vision in insects: pathways possibly underlying neural adaptation and lateral inhibition. <i>Science</i> , 1977, 195, 894-897.	6.0	135
29	Beneath the Compound Eye: Neuroanatomical Analysis and Physiological Correlates in the Study of Insect Vision. , 1989, , 317-359.		135
30	The evolution of crustacean and insect optic lobes and the origins of chiasmata. <i>Arthropod Structure and Development</i> , 2005, 34, 235-256.	0.8	127
31	Chelicerate neural ground pattern in a Cambrian great appendage arthropod. <i>Nature</i> , 2013, 502, 364-367.	13.7	123
32	Multimodal efferent and recurrent neurons in the medial lobes of cockroach mushroom bodies. , 1999, 409, 647-663.		121
33	Organization of olfactory and multimodal afferent neurons supplying the calyx and pedunculus of the cockroach mushroom bodies. <i>Journal of Comparative Neurology</i> , 1999, 409, 603-625.	0.9	120
34	Conserved and convergent organization in the optic lobes of insects and isopods, with reference to other crustacean taxa. <i>Journal of Comparative Neurology</i> , 2003, 467, 150-172.	0.9	119
35	Mushroom bodies of the cockroach: Activity and identities of neurons recorded in freely moving animals. <i>Journal of Comparative Neurology</i> , 1998, 402, 501-519.	0.9	115
36	Two visual systems in one brain: Neuropils serving the principal eyes of the spider <i>Cupiennius salei</i> . <i>Journal of Comparative Neurology</i> , 1993, 328, 63-75.	0.9	113

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37	Two visual systems in one brain: Neuropils serving the secondary eyes of the spider <i>Cupiennius salei</i> . <i>Journal of Comparative Neurology</i> , 1993, 328, 43-62.	0.9	107
38	Brain organization and the origin of insects: an assessment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1929-1937.	1.2	106
39	Comparison of octopamine-like immunoreactivity in the brains of the fruit fly and blow fly. <i>Journal of Comparative Neurology</i> , 2006, 494, 460-475.	0.9	105
40	Structure, distribution and number of surface sensilla and their receptor cells on the olfactory appendage of the male moth <i>Manduca sexta</i> . <i>Journal of Neurocytology</i> , 1990, 19, 519-538.	1.6	103
41	Chapter 24 A Brain Region in Insects That Supervises Walking. <i>Progress in Brain Research</i> , 1999, 123, 273-284.	0.9	101
42	The organization and evolutionary implications of neuropils and their neurons in the brain of the onychophoran <i>Euperipatoides rowelli</i> . <i>Arthropod Structure and Development</i> , 2006, 35, 169-196.	0.8	98
43	Visual motion detection circuits in flies: peripheral motion computation by identified small-field retinotopic neurons. <i>Journal of Neuroscience</i> , 1995, 15, 5596-5611.	1.7	95
44	Octopamine-like immunoreactivity in the honey bee and cockroach: Comparable organization in the brain and subesophageal ganglion. <i>Journal of Comparative Neurology</i> , 2005, 488, 233-254.	0.9	94
45	Organizational principles of outputs from Dipteran brains. <i>Journal of Insect Physiology</i> , 1984, 30, 73-93.	0.9	92
46	Optic Glomeruli and Their Inputs in <i>Drosophila</i> Share an Organizational Ground Pattern with the Antennal Lobes. <i>Journal of Neuroscience</i> , 2012, 32, 6061-6071.	1.7	91
47	Visual Motion-Detection Circuits in Flies: Parallel Direction- and Non-Direction-Sensitive Pathways between the Medulla and Lobula Plate. <i>Journal of Neuroscience</i> , 1996, 16, 4551-4562.	1.7	90
48	The dipteran "Giant fibre" pathway: neurons and signals. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1986, 158, 529-548.	0.7	88
49	Representation of the calyces in the medial and vertical lobes of cockroach mushroom bodies. , 1999, 409, 626-646.		85
50	The functional organization of male-specific visual neurons in flies. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1991, 169, 395-411.	0.7	84
51	A new view of insect-crustacean relationships I. Inferences from neural cladistics and comparative neuroanatomy. <i>Arthropod Structure and Development</i> , 2011, 40, 276-288.	0.8	84
52	Synaptic connections of intrinsic cells and basket arborizations in the external plexiform layer of the fly's eye. <i>Brain Research</i> , 1973, 59, 119-136.	1.1	80
53	The L4 monopolar neurone: a substrate for lateral interaction in the visual system of the fly <i>Musca domestica</i> (L). <i>Brain Research</i> , 1973, 59, 97-117.	1.1	79
54	Organization and significance of neurons that detect change of visual depth in the hawk moth <i>Manduca sexta</i> . <i>Journal of Comparative Neurology</i> , 2000, 424, 356-376.	0.9	79

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55	Genealogical Correspondence of Mushroom Bodies across Invertebrate Phyla. <i>Current Biology</i> , 2015, 25, 38-44.	1.8	74
56	Parallel organization in honey bee mushroom bodies by peptidergic kenyon cells. <i>Journal of Comparative Neurology</i> , 2000, 424, 179-195.	0.9	71
57	Organization of optic lobes that support motion detection in a semiterrestrial crab. <i>Journal of Comparative Neurology</i> , 2005, 493, 396-411.	0.9	69
58	Taurine-, aspartate- and glutamate-like immunoreactivity identifies chemically distinct subdivisions of Kenyon cells in the cockroach mushroom body. <i>Journal of Comparative Neurology</i> , 2001, 439, 352-367.	0.9	68
59	Male and female visual neurones in dipterous insects. <i>Nature</i> , 1980, 283, 381-383.	13.7	66
60	The relevance of neural architecture to visual performance: Phylogenetic conservation and variation in dipteran visual systems. <i>Journal of Comparative Neurology</i> , 1997, 383, 282-304.	0.9	66
61	Lucifer Yellow Histology. <i>Springer Series in Experimental Entomology</i> , 1983, , 132-155.	0.7	65
62	Arthropod eyes: The early Cambrian fossil record and divergent evolution of visual systems. <i>Arthropod Structure and Development</i> , 2016, 45, 152-172.	0.8	64
63	Cluster organization and response characteristics of the giant fiber pathway of the blowfly <i>Calliphora erythrocephala</i> . <i>Journal of Comparative Neurology</i> , 1990, 294, 59-75.	0.9	63
64	Visual Motion-Detection Circuits in Flies: Small-Field Retinotopic Elements Responding to Motion Are Evolutionarily Conserved across Taxa. <i>Journal of Neuroscience</i> , 1996, 16, 4563-4578.	1.7	63
65	Development of laminar organization in the mushroom bodies of the cockroach: Kenyon cell proliferation, outgrowth, and maturation. <i>Journal of Comparative Neurology</i> , 2001, 439, 331-351.	0.9	62
66	Development and morphology of Class II Kenyon cells in the mushroom bodies of the honey bee, <i>Apis mellifera</i> . <i>Journal of Comparative Neurology</i> , 2004, 474, 325-339.	0.9	60
67	Descending pathways connecting the male-specific visual system of flies to the neck and flight motor. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1991, 169, 413-26.	0.7	57
68	A unique mushroom body substructure common to basal cockroaches and to termites. <i>Journal of Comparative Neurology</i> , 2003, 456, 305-320.	0.9	56
69	Visual system of calliphorid flies: Organization of optic glomeruli and their lobula complex efferents. <i>Journal of Comparative Neurology</i> , 2007, 500, 166-188.	0.9	55
70	Flybrain, an on-line atlas and database of the <i>Drosophila</i> nervous system. <i>Neuron</i> , 1995, 15, 17-20.	3.8	54
71	Structural organization of male-specific visual neurons in calliphorid optic lobes. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1991, 169, 379-93.	0.7	53
72	Oculomotor control in calliphorid flies: Organization of descending neurons to neck motor neurons responding to visual stimuli. <i>Journal of Comparative Neurology</i> , 1995, 361, 267-284.	0.9	53

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73	Neuronal organization of the hemiellipsoid body of the land hermit crab, <i>Coenobita clypeatus</i> : Correspondence with the mushroom body ground pattern. <i>Journal of Comparative Neurology</i> , 2012, 520, 2824-2846.	0.9	52
74	Evolutionarily conserved mechanisms for the selection and maintenance of behavioural activity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150053.	1.8	52
75	Anatomical organization of retinotopic motion-sensitive pathways in the optic lobes of flies. <i>Microscopy Research and Technique</i> , 2003, 62, 132-150.	1.2	51
76	Preservational Pathways of Corresponding Brains of a Cambrian Euarthropod. <i>Current Biology</i> , 2015, 25, 2969-2975.	1.8	51
77	Exploitation of an Ancient Escape Circuit by an Avian Predator: Prey Sensitivity to Model Predator Display in the Field. <i>Brain, Behavior and Evolution</i> , 2000, 56, 94-106.	0.9	50
78	Chemical neuroanatomy of the fly's movement detection pathway. <i>Journal of Comparative Neurology</i> , 2004, 468, 6-23.	0.9	50
79	Dynamics of glutamatergic signaling in the mushroom body of young adult <i>Drosophila</i> . <i>Neural Development</i> , 2010, 5, 10.	1.1	50
80	The compound eye of the fly (<i>Musca domestica</i>): connections between the cartridges of the lamina ganglionaris. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1970, 70, 95-104.	0.7	48
81	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. <i>Brain, Behavior and Evolution</i> , 2001, 58, 218-240.	0.9	46
82	Organization of local interneurons in optic glomeruli of the dipterous visual system and comparisons with the antennal lobes. <i>Developmental Neurobiology</i> , 2007, 67, 1267-1288.	1.5	46
83	Genealogical correspondence of a forebrain centre implies an executive brain in the protostome–deuterostome bilaterian ancestor. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150055.	1.8	45
84	An insect-like mushroom body in a crustacean brain. <i>ELife</i> , 2017, 6, .	2.8	43
85	Oculomotor control in calliphorid flies: Head movements during activation and inhibition of neck motor neurons corroborate neuroanatomical predictions. <i>Journal of Comparative Neurology</i> , 1995, 361, 285-297.	0.9	42
86	Organization of Kenyon cells in subdivisions of the mushroom bodies of a lepidopteran insect. <i>Journal of Comparative Neurology</i> , 2005, 491, 290-304.	0.9	40
87	Visual inputs to the mushroom body calyces of the whirligig beetle <i>Dineutus sublineatus</i> : Modality switching in an insect. <i>Journal of Comparative Neurology</i> , 2012, 520, 2562-2574.	0.9	39
88	An exceptionally preserved arthropod cardiovascular system from the early Cambrian. <i>Nature Communications</i> , 2014, 5, 3560.	5.8	39
89	Premotor descending neurons responding selectively to local visual stimuli in flies. <i>Journal of Comparative Neurology</i> , 1992, 316, 87-103.	0.9	38
90	Oculomotor control in calliphorid flies: GABAergic organization in heterolateral inhibitory pathways. <i>Journal of Comparative Neurology</i> , 1995, 361, 298-320.	0.9	38

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91	Neural organization of first optic neuropils in the littoral crab <i>Hemigrapsus oregonensis</i> and the semiterrestrial species <i>Chasmagnathus granulatus</i> . <i>Journal of Comparative Neurology</i> , 2009, 513, 129-150.	0.9	38
92	The minute brain of the copepod <i>Tigriopus californicus</i> supports a complex ancestral ground pattern of the tetraconate cerebral nervous systems. <i>Journal of Comparative Neurology</i> , 2012, 520, 3446-3470.	0.9	38
93	Fossils and the Evolution of the Arthropod Brain. <i>Current Biology</i> , 2016, 26, R989-R1000.	1.8	38
94	Cobalt-immunocytochemical identification of peptidergic neurons in <i>Calliphora</i> innervating central and peripheral targets. <i>Journal of Neurocytology</i> , 1983, 12, 847-861.	1.6	37
95	Unlocking the early fossil record of the arthropod central nervous system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150038.	1.8	37
96	The computational basis of an identified neuronal circuit for elementary motion detection in dipterous insects. <i>Visual Neuroscience</i> , 2004, 21, 567-586.	0.5	36
97	Visual inputs to the mushroom body calyces of the whirligig beetle <i>Dineutus sublineatus</i> : Modality switching in an insect. <i>Journal of Comparative Neurology</i> , 2012, 520, Spc1-Spc1.	0.9	36
98	Organization of olfactory and multimodal afferent neurons supplying the calyx and pedunculus of the cockroach mushroom bodies. <i>Journal of Comparative Neurology</i> , 1999, 409, 603-25.	0.9	34
99	Insect-Like Organization of the Stomatopod Central Complex: Functional and Phylogenetic Implications. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 12.	1.0	33
100	Functionally and anatomically segregated visual pathways in the lobula complex of a calliphorid fly. <i>Journal of Comparative Neurology</i> , 1998, 396, 84-104.	0.9	31
101	Spatial learning in the restrained American cockroach <i>Periplaneta americana</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 377-383.	0.8	31
102	Visual system of calliphorid flies: Motion- and orientation-sensitive visual interneurons supplying dorsal optic glomeruli. <i>Journal of Comparative Neurology</i> , 2007, 500, 189-208.	0.9	31
103	Homology versus Convergence in Resolving Transphyletic Correspondences of Brain Organization. <i>Brain, Behavior and Evolution</i> , 2013, 82, 215-219.	0.9	31
104	Functional division of intrinsic neurons in the mushroom bodies of male <i>Spodoptera littoralis</i> revealed by antibodies against aspartate, taurine, FMRF-amide, Mas-allatotropin and DC0. <i>Arthropod Structure and Development</i> , 2006, 35, 153-168.	0.8	30
105	Mushroom body evolution demonstrates homology and divergence across Pancrustacea. <i>ELife</i> , 2020, 9, .	2.8	30
106	Small-field neurons associated with oculomotor and optomotor control in muscoid flies: Functional organization. <i>Journal of Comparative Neurology</i> , 1992, 316, 72-86.	0.9	29
107	Representation of the brain's superior protocerebrum of the flesh fly, <i>Neobellieria bullata</i> , in the central body. <i>Journal of Comparative Neurology</i> , 2012, 520, 3070-3087.	0.9	29
108	Retinotopic pathways providing motion-selective information to the lobula from peripheral elementary motion-detecting circuits. <i>Journal of Comparative Neurology</i> , 2003, 457, 326-344.	0.9	28

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109	Responses of <i>Drosophila</i> giant descending neurons to visual and mechanical stimuli. <i>Journal of Experimental Biology</i> , 2014, 217, 2121-9.	0.8	28
110	A simple mushroom body in an African scarabid beetle. <i>Journal of Comparative Neurology</i> , 2004, 478, 219-232.	0.9	27
111	A Toll-receptor map underlies structural brain plasticity. <i>ELife</i> , 2020, 9, .	2.8	27
112	Small-field neurons associated with oculomotor control in muscoid flies: Cellular organization in the lobula plate. <i>Journal of Comparative Neurology</i> , 1992, 316, 56-71.	0.9	23
113	The effect of age on a visual learning task in the American cockroach. <i>Learning and Memory</i> , 2009, 16, 210-223.	0.5	23
114	The larval nervous system of the penis worm <i>Priapulid caudatus</i> (Ecdysozoa). <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150050.	1.8	23
115	Memory consolidation and gene expression in <i>Periplaneta americana</i> . <i>Learning and Memory</i> , 2005, 12, 30-38.	0.5	22
116	Learning with half a brain. <i>Developmental Neurobiology</i> , 2007, 67, 740-751.	1.5	22
117	Parallel organization in honey bee mushroom bodies by peptidergic Kenyon cells. <i>Journal of Comparative Neurology</i> , 2000, 424, 179-95.	0.9	22
118	Intersegmental sensory tracts and contralateral motor neurons in the leg ganglia of the spider <i>Cupiennius salei</i> Keys. <i>Cell and Tissue Research</i> , 1985, 241, 53-57.	1.5	21
119	Ancestral regulatory mechanisms specify conserved midbrain circuitry in arthropods and vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19544-19555.	3.3	21
120	Waptia revisited: Intimations of behaviors. <i>Arthropod Structure and Development</i> , 2016, 45, 173-184.	0.8	20
121	Resolution of complex neuronal arrangements in the blowfly visual system using triple fluorescence staining. <i>Cell and Tissue Research</i> , 1987, 247, 5-10.	1.5	18
122	Neural organization of afferent pathways from the stomatopod compound eye. <i>Journal of Comparative Neurology</i> , 2017, 525, 3010-3030.	0.9	18
123	Dimorphic Olfactory Lobes in the Arthropoda. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 487-496.	1.8	16
124	Central projections of antennular chemosensory and mechanosensory afferents in the brain of the terrestrial hermit crab (<i>Coenobita clypeatus</i> ; Coenobitidae, Anomura). <i>Frontiers in Neuroanatomy</i> , 2015, 9, 94.	0.9	16
125	Insect Vision and Olfaction: Common Design Principles of Neuronal Organization. , 1989, , 319-353.		16
126	Mushroom bodies in crustaceans: Insect-like organization in the caridid shrimp <i>Lebbeus groenlandicus</i> . <i>Journal of Comparative Neurology</i> , 2019, 527, 2371-2387.	0.9	15

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127	Leancoiliidae reveals the ancestral organization of the stem euarthropod brain. <i>Current Biology</i> , 2021, 31, 4397-4404.e2.	1.8	13
128	Cytology of cobalt-filled neurons in flies: cobalt deposits at presynaptic and postsynaptic sites, mitochondria and the cytoskeleton. <i>Journal of Neurocytology</i> , 1983, 12, 949-970.	1.6	12
129	Sign-conserving amacrine neurons in the fly's external plexiform layer. <i>Visual Neuroscience</i> , 2005, 22, 345-358.	0.5	12
130	Mushroom bodies in Reptantia reflect a major transition in crustacean brain evolution. <i>Journal of Comparative Neurology</i> , 2020, 528, 261-282.	0.9	12
131	A precocious adult visual center in the larva defines the unique optic lobe of the split-eyed whirligig beetle <i>Dineutus sublineatus</i> . <i>Frontiers in Zoology</i> , 2013, 10, 7.	0.9	11
132	Global and local modulatory supply to the mushroom bodies of the moth <i>Spodoptera littoralis</i> . <i>Arthropod Structure and Development</i> , 2008, 37, 260-272.	0.8	10
133	Representation of the stomatopod's retinal midband in the optic lobes: Putative neural substrates for integrating chromatic, achromatic and polarization information. <i>Journal of Comparative Neurology</i> , 2018, 526, 1148-1165.	0.9	10
134	Introduction to "Homology and convergence in nervous system evolution". <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150034.	1.8	9
135	The reniform body: An integrative lateral protocerebral neuropil complex of Eumalacostraca identified in Stomatopoda and Brachyura. <i>Journal of Comparative Neurology</i> , 2020, 528, 1079-1094.	0.9	9
136	Convergent evolution of optic lobe neuropil in Pancrustacea. <i>Arthropod Structure and Development</i> , 2021, 61, 101040.	0.8	9
137	A pair of descending neurons with dendrites in the optic lobes projecting directly to thoracic ganglia of dipterous insects. <i>Cell and Tissue Research</i> , 1982, 226, 355-62.	1.5	8
138	Brain Homology: Dohrn of a New Era?. <i>Brain, Behavior and Evolution</i> , 2010, 76, 165-167.	0.9	8
139	Introduction to "Origin and evolution of the nervous system". <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150033.	1.8	8
140	<i>Nomen est omen</i> , cognitive dissonance, and homology of memory centers in crustaceans and insects. <i>Journal of Comparative Neurology</i> , 2020, 528, 2595-2601.	0.9	8
141	The lobula plate is exclusive to insects. <i>Arthropod Structure and Development</i> , 2021, 61, 101031.	0.8	8
142	The Insect Brain: A COMMENTATED PRIMER. , 2015, , 597-639.		8
143	Development-dependent and -independent ubiquitin expression in divisions of the cockroach mushroom body. <i>Journal of Comparative Neurology</i> , 2006, 496, 556-571.	0.9	7
144	Cong et al. reply. <i>Nature</i> , 2014, 516, E3-E4.	13.7	7

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145	Optic flow representation in the optic lobes of Diptera: modeling the role of T5 directional tuning properties. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2000, 186, 783-797.	0.7	6
146	Optic flow representation in the optic lobes of Diptera: modeling innervation matrices onto collators and their evolutionary implications. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2000, 186, 799-811.	0.7	6
147	Shore crabs reveal novel evolutionary attributes of the mushroom body. <i>ELife</i> , 2021, 10, .	2.8	6
148	Morphology and sensory modality of mushroom body extrinsic neurons in the brain of the cockroach, <i>Periplaneta americana</i> . , 1997, 387, 631.		6
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