Joachim Schachtner

List of Publications by Year
in descending order

54 papers	3,996 citations	201674 27 h-index	175258 52 g-index
54 all docs	54 docs citations	54 times ranked	4049 citing authors

#	Article	IF	Citations
1	The genome of the model beetle and pest Tribolium castaneum. Nature, 2008, 452, 949-955.	27.8	1,255
2	Genomics, transcriptomics, and peptidomics of neuropeptides and protein hormones in the red flour beetle Tribolium castaneum. Genome Research, 2008, 18, 113-122.	5.5	359
3	A genome-wide inventory of neurohormone GPCRs in the red flour beetle Tribolium castaneum. Frontiers in Neuroendocrinology, 2008, 29, 142-165.	5.2	221
4	Organization and evolutionary trends of primary olfactory brain centers in Tetraconata (Crustacea+Hexapoda). Arthropod Structure and Development, 2005, 34, 257-299.	1.4	215
5	Discovery of a Novel Insect Neuropeptide Signaling System Closely Related to the Insect Adipokinetic Hormone and Corazonin Hormonal Systems. Journal of Biological Chemistry, 2010, 285, 10736-10747.	3.4	163
6	Toxoplasma gondii scavenges host-derived lipoic acid despite its de novo synthesis in the apicoplast. EMBO Journal, 2006, 25, 3214-3222.	7.8	130
7	Multiple neuropeptides in the Drosophila antennal lobe suggest complex modulatory circuits. Journal of Comparative Neurology, 2010, 518, 3359-3380.	1.6	119
8	Tissue-specific transcriptomics, chromosomal localization, and phylogeny of chemosensory and odorant binding proteins from the red flour beetle Tribolium castaneum reveal subgroup specificities for olfaction or more general functions. BMC Genomics, 2014, 15, 1141.	2.8	111
9	Anisometric brain dimorphism revisited: Implementation of a volumetric 3D standard brain in Manduca sexta. Journal of Comparative Neurology, 2009, 517, 210-225.	1.6	92
10	Morphological and Transcriptomic Analysis of a Beetle Chemosensory System Reveals a Gnathal Olfactory Center. BMC Biology, 2016, 14, 90.	3.8	73
11	Apicomplexan parasites contain a single lipoic acid synthase located in the plastid. FEBS Letters, 2003, 547, 80-86.	2.8	71
12	Standard three-dimensional glomeruli of the Manduca sexta antennal lobe: a tool to study both developmental and adult neuronal plasticity. Cell and Tissue Research, 2005, 319, 513-524.	2.9	70
13	3D standard brain of the red flour beetle Tribolium castaneum: a tool to study metamorphic development and adult plasticity. Frontiers in Systems Neuroscience, 2010, 4, 3.	2.5	68
14	Confocal Laser Scanning Microscopy Method for Quantitative Characterization of Silica Monolith Morphology. Analytical Chemistry, 2010, 82, 6569-6575.	6.5	66
15	Cockchafer Larvae Smell Host Root Scents in Soil. PLoS ONE, 2012, 7, e45827.	2.5	60
16	Insecticidal genes of Yersinia spp.: taxonomical distribution, contribution to toxicity towards Manduca sexta and Galleria mellonella, and evolution. BMC Microbiology, 2008, 8, 214.	3.3	58
17	Toward a singleâ€cellâ€based analysis of neuropeptide expression in Periplaneta americana antennal lobe neurons. Journal of Comparative Neurology, 2012, 520, 694-716.	1.6	45
18	Neuropeptides in the antennal lobe of the yellow fever mosquito, Aedes aegypti. Journal of Comparative Neurology, 2014, 522, 592-608.	1.6	44

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19	Distribution of neuropeptides in the primary olfactory center of the heliothine moth Heliothis virescens. Cell and Tissue Research, 2006, 327, 385-398.	2.9	39
20	Masâ€allatotropin in the developing antennal lobe of the sphinx moth Manduca sexta: Distribution, time course, developmental regulation, and colocalization with other neuropeptides. Developmental Neurobiology, 2008, 68, 123-142.	3.0	39
21	Î³-Aminobutyric acid immunostaining in the antennal lobe of the moth Heliothis virescens and its colocalization with neuropeptides. Cell and Tissue Research, 2009, 335, 593-605.	2.9	39
22	Feeding-induced changes in allatostatin-A and short neuropeptide F in the antennal lobes affect odor-mediated host seeking in the yellow fever mosquito, Aedes aegypti. PLoS ONE, 2017, 12, e0188243.	2.5	36
23	Neuropeptides in insect mushroom bodies. Arthropod Structure and Development, 2012, 41, 199-226.	1.4	34
24	Brain organization in Collembola (springtails). Arthropod Structure and Development, 2011, 40, 304-316.	1.4	33
25	Immunolocalization of synaptotagmin for the study of synapses in the developing antennal lobe ofManduca sexta. Journal of Comparative Neurology, 2001, 441, 277-287.	1.6	32
26	Localization of nitric oxide synthase in the central complex and surrounding midbrain neuropils of the locust Schistocerca gregaria. Journal of Comparative Neurology, 2005, 484, 206-223.	1.6	32
27	Revisiting the anatomy of the central nervous system of a hemimetabolous model insect species: the pea aphid Acyrthosiphon pisum. Cell and Tissue Research, 2011, 343, 343-355.	2.9	30
28	The insect central complex as model for heterochronic brain developmentâ€"background, concepts, and tools. Development Genes and Evolution, 2016, 226, 209-219.	0.9	30
29	Regulation of cyclic GMP elevation in the developing antennal lobe of the sphinx moth,Manduca sexta. , 1999, 41, 359-375.		29
30	Direct peptide profiling of lateral cell groups of the antennal lobes ofManduca sextareveals specific composition and changes in neuropeptide expression during development. Developmental Neurobiology, 2007, 67, 764-777.	3.0	25
31	Development and steroid regulation of RFamide immunoreactivity in antennal-lobe neurons of the sphinx moth Manduca sexta. Journal of Experimental Biology, 2004, 207, 2389-2400.	1.7	24
32	3D-reconstructions and virtual 4D-visualization to study metamorphic brain development in the sphinx moth Manduca sexta. Frontiers in Systems Neuroscience, 2010, 4, 7.	2.5	24
33	Development of A-type allatostatin immunoreactivity in antennal lobe neurons of the sphinx moth Manduca sexta. Cell and Tissue Research, 2005, 320, 149-162.	2.9	23
34	Manganese-enhanced 3D MRI of established and disrupted synaptic activity in the developing insect brain in vivo. Journal of Neuroscience Methods, 2006, 158, 50-55.	2.5	22
35	Neuropeptidome of Tribolium castaneum antennal lobes and mushroom bodies. Journal of Comparative Neurology, 2014, 522, 337-357.	1.6	22
36	Metamorphic control of cyclic guanosine monophosphate expression in the nervous system of the tobacco hornworm,Manduca sexta. , 1998, 396, 238-252.		21

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37	Colocalization of allatotropin and tachykininâ€related peptides with classical transmitters in physiologically distinct subtypes of olfactory local interneurons in the cockroach (Periplaneta) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	20
38	In vivo 3D MRI of insect brain: cerebral development during metamorphosis of Manduca sexta. NeuroImage, 2005, 24, 596-602.	4.2	19
39	NO/cGMP signalling: L-citrulline and cGMP immunostaining in the central complex of the desert locust Schistocerca gregaria. Cell and Tissue Research, 2009, 337, 327-340.	2.9	19
40	Conservation of the function counts: homologous neurons express sequenceâ€related neuropeptides that originate from different genes. Journal of Neurochemistry, 2009, 111, 757-765.	3.9	19
41	A simple purification protocol for the detection of peptide hormones in the hemolymph of individual insects by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 23-28.	1.5	18
42	Seasonal leptin resistance is associated with impaired signalling via JAK2-STAT3 but not ERK, possibly mediated by reduced hypothalamic GRB2 protein. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 553-567.	1.5	17
43	A 4-dimensional representation of antennal lobe output based on an ensemble of characterized projection neurons. Journal of Neuroscience Methods, 2009, 180, 208-223.	2.5	16
44	Copper/zinc superoxide dismutase-like immunoreactivity in the metamorphosing brain of the sphinx mothManduca sexta. Journal of Comparative Neurology, 2004, 469, 141-152.	1.6	15
45	Adult neurogenesis in the mushroom bodies of red flour beetles (Tribolium castaneum, Herbst) is influenced by the olfactory environment. Scientific Reports, 2020, 10, 1090.	3.3	14
46	Variations on a Theme: Antennal Lobe Architecture across Coleoptera. PLoS ONE, 2016, 11, e0166253.	2.5	14
47	Mating-Induced Differential Peptidomics of Neuropeptides and Protein Hormones in Agrotis ipsilon Moths. Journal of Proteome Research, 2018, 17, 1397-1414.	3.7	13
48	Direct Peptide Profiling of Brain Tissue by MALDI-TOF Mass Spectrometry. Methods in Molecular Biology, 2010, 615, 129-135.	0.9	13
49	Novel antennal lobe substructures revealed in the small hive beetle Aethina tumida. Cell and Tissue Research, 2016, 363, 679-692.	2.9	11
50	Functional characterization of mosquito short neuropeptide F receptors. Peptides, 2018, 103, 31-39.	2.4	11
51	Distribution of tachykininâ€related peptides in the brain of the tobacco budworm Heliothis virescens. Journal of Comparative Neurology, 2017, 525, 3918-3934.	1.6	7
52	Functional characterization of the dual allatostatin-A receptors in mosquitoes. Peptides, 2018, 99, 44-55.	2.4	7
53	Metamorphic development of the olfactory system in the red flour beetle (Tribolium castaneum,) Tj ETQq1 1 0.784314 rgBT /Overlock	3.8	5
54	Space Takes Time: Concentration Dependent Output Codes from Primary Olfactory Networks Rapidly Provide Additional Information at Defined Discrimination Thresholds. Frontiers in Cellular Neuroscience, 2015, 9, 515.	3.7	4