Brett A Johnson

List of Publications by Year
in descending order

48 papers	2,802 citations	218592 26 h-index	243529 44 g-index
49 all docs	49 docs citations	49 times ranked	1277 citing authors

#	Article	IF	Citations
1	Long-Range, Border-Crossing, Horizontal Axon Radiations Are a Common Feature of Rat Neocortical Regions That Differ in Cytoarchitecture. Frontiers in Neuroanatomy, 2018, 12, 50.	0.9	6
2	Imaging Cajalâ€™s neuronal avalanche: how wide-field optical imaging of the point-spread advanced the understanding of neocortical structureâ€“function relationship. Neurophotonics, 2017, 4, 031217.	1.7	26
3	Photonics meets connectomics: case of diffuse, long-range horizontal projections in rat cortex. Neurophotonics, 2015, 2, 041403.	1.7	13
4	Cluster Analysis of Rat Olfactory Bulb Responses to Diverse Odorants. Chemical Senses, 2012, 37, 639-653.	1.1	15
5	Glomerular activity patterns evoked by natural odor objects in the rat olfactory bulb are related to patterns evoked by major odorant components. Journal of Comparative Neurology, 2010, 518, 1542-1555.	0.9	31
6	Prolonged stimulus exposure reveals prolonged neurobehavioral response patterns. Journal of Comparative Neurology, 2010, 518, 1617-1629.	0.9	1
7	Spatial representations of odorants in olfactory bulbs of rats and mice: Similarities and differences in chemotopic organization. Journal of Comparative Neurology, 2009, 514, 658-673.	0.9	46
8	Is there a spaceâ€“time continuum in olfaction?. Cellular and Molecular Life Sciences, 2009, 66, 2135-2150.	2.4	20
9	A8-A17 Cell Groups (Dopaminergic Cell Groups). , 2008, , 2-2.		0
10	Relational representation in the olfactory system. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1953-1958.	3.3	139
11	Broad Activation of the Glomerular Layer Enhances Subsequent Olfactory Responses. Chemical Senses, 2007, 32, 51-55.	1.1	22
12	Effects of double and triple bonds on the spatial representations of odorants in the rat olfactory bulb. Journal of Comparative Neurology, 2007, 500, 720-733.	0.9	12
13	Odorants with multiple oxygen-containing functional groups and other odorants with high water solubility preferentially activate posterior olfactory bulb glomeruli. Journal of Comparative Neurology, 2007, 502, 468-482.	0.9	30
14	Chemotopic odorant coding in a mammalian olfactory system. Journal of Comparative Neurology, 2007, 503, 1-34.	0.9	255
15	Predicting odorant quality perceptions from multidimensional scaling of olfactory bulb glomerular activity patterns.. Behavioral Neuroscience, 2006, 120, 1337-1345.	0.6	54
16	Long hydrocarbon chains serve as unique molecular features recognized by ventral glomeruli of the rat olfactory bulb. Journal of Comparative Neurology, 2006, 498, 16-30.	0.9	22
17	Chemotopic representations of aromatic odorants in the rat olfactory bulb. Journal of Comparative Neurology, 2006, 497, 350-366.	0.9	18
18	Differential specificity in the glomerular response profiles for alicyclic, bicyclic, and heterocyclic odorants. Journal of Comparative Neurology, 2006, 499, 1-16.	0.9	12

#	Article	IF	Citations
19	Differential responses to branched and unsaturated aliphatic hydrocarbons in the rat olfactory system. Journal of Comparative Neurology, 2006, 499, 519-532.	0.9	19
20	Interactions between odorant functional group and hydrocarbon structure influence activity in glomerular response modules in the rat olfactory bulb. Journal of Comparative Neurology, 2005, 483, 205-216.	0.9	63
21	Effects of functional group position on spatial representations of aliphatic odorants in the rat olfactory bulb. Journal of Comparative Neurology, 2005, 483, 192-204.	0.9	42
22	Local and global chemotopic organization: General features of the glomerular representations of aliphatic odorants differing in carbon number. Journal of Comparative Neurology, 2004, 480, 234-249.	0.9	66
23	Spatiotemporal distribution of the insulin-like growth factor receptor in the rat olfactory bulb. Neurochemical Research, 2003, 28, 29-43.	1.6	10
24	Olfactory coding in the mammalian olfactory bulb. Brain Research Reviews, 2003, 42, 23-32.	9.1	151
25	Spontaneous versus Reinforced Olfactory Discriminations. Journal of Neuroscience, 2002, 22, 6842-6845.	1.7	116
26	Functional mapping of the rat olfactory bulb using diverse odorants reveals modular responses to functional groups and hydrocarbon structural features. Journal of Comparative Neurology, 2002, 449, 180-194.	0.9	101
27	Spatial Coding in the Olfactory System. Handbook of Behavioral Neurobiology, 2001, , 53-80.	0.3	0
28	Perceptual Correlates of Neural Representations Evoked by Odorant Enantiomers. Journal of Neuroscience, 2001, 21, 9837-9843.	1.7	176
29	Modular representations of odorants in the glomerular layer of the rat olfactory bulb and the effects of stimulus concentration. Journal of Comparative Neurology, 2000, 422, 496-509.	0.9	225
30	Odorant molecular length: One aspect of the olfactory code. Journal of Comparative Neurology, 2000, 426, 330-338.	0.9	98
31	Multidimensional chemotopic responses to n-aliphatic acid odorants in the rat olfactory bulb. Journal of Comparative Neurology, 1999, 409, 529-548.	0.9	150
32	Spatial coding of odorant features in the glomerular layer of the rat olfactory bulb. , 1998, 393, 457-471.		175
33	Synaptophysin-like immunoreactivity in the rat olfactory bulb during postnatal development and after restricted early olfactory experience. Developmental Brain Research, 1996, 92, 24-30.	2.1	19
34	Spatial distribution of [14C]2-deoxyglucose uptake in the glomerular layer of the rat olfactory bulb following early odor preference learning. Journal of Comparative Neurology, 1996, 376, 557-566.	0.9	48
35	A learned odor evokes an enhanced Fos-like glomerular response in the olfactory bulb of young rats. Brain Research, 1995, 699, 192-200.	1.1	90
36	Kinetic properties of bovine brain proteinl-isoaspartyl methyltransferase determined using a synthetic isoaspartyl peptide substrate. Neurochemical Research, 1993, 18, 87-94.	1.6	34

#	Article	IF	Citations
37	Analysis of stable protein methylation in cultured cells. Archives of Biochemistry and Biophysics, 1992, 293, 85-92.	1.4	23
38	Protein L-isoaspartyl methyltransferase in postmortem brains of aged humans. Neurobiology of Aging, 1991, 12, 19-24.	1.5	38
39	Amplification and detection of substrates for protein carboxyl methyltransferases in PC12 cells. Analytical Biochemistry, 1991, 197, 412-420.	1.1	12
40	Optimal conditions for the use of protein l-isoaspartyl methyltransferase in assessing the isoaspartate content of peptides and proteins. Analytical Biochemistry, 1991, 192, 384-391.	1.1	63
41	Fragmentation of isoaspartyl peptides and proteins by carboxypeptidase Y: release of isoaspartyl dipeptides as a result of internal and external cleavage. Biochemistry, 1990, 29, 4373-4380.	1.2	49
42	Deamidation of calmodulin at neutral and alkaline pH: Quantitative relationships between ammonia loss and the susceptibility of calmodulin to modification by protein carboxyl methyltransferase. Archives of Biochemistry and Biophysics, 1989, 268, 276-286.	1.4	62
43	Modification of Isoaspartyl Peptides and Proteins by Protein Carboxyl Methyltransferase from Bovine Brain. , 1988, 231, 247-259.		10
44	The unusual substrate specificity of eukaryotic protein carboxyl methyltransferases. Trends in Biochemical Sciences, 1987, 12, 155-158.	3.7	89
45	Modification of synthetic peptides related to lactate dehydrogenase (231-242) by protein carboxyl methyltransferase and tyrosine protein kinase: effects of introducing an isopeptide bond between aspartic acid-235 and serine-236. Biochemistry, 1987, 26, 675-681.	1.2	21
46	Identification and Topography of Substrates for Protein Carboxyl Methyltransferase in Synaptic Membrane and Myelin-Enriched Fractions of Bovine and Rat Brain. Journal of Neurochemistry, 1985, 45, 1119-1127.	2.1	17
47	Enzymic protein carboxyl methylation at physiological pH: cyclic imide formation explains rapid methyl turnover. Biochemistry, 1985, 24, 2581-2586.	1.2	83
48	Purification, Biochemical Characterization, Binding Activity, and Selectivity of a Glutamate Binding Protein from Bovine Brain. Journal of Neurochemistry, 1984, 42, 397-406.	2.1	30