

Donald A Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

10,709
citations

41258

49
h-index

34900

98
g-index

133
all docs

133
docs citations

133
times ranked

11987
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological constraints on configural odour mixture perception. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	3
2	Good scents: A short road from olfaction to satisfaction. <i>Current Biology</i> , 2021, 31, R374-R376.	1.8	4
3	Odor identity can be extracted from the reciprocal connectivity between olfactory bulb and piriform cortex in humans. <i>NeuroImage</i> , 2021, 237, 118130.	2.1	14
4	Neonatal ethanol causes profound reduction of cholinergic cell number in the basal forebrain of adult animals. <i>Alcohol</i> , 2021, 97, 1-11.	0.8	9
5	Bidirectional control of infant rat social behavior via dopaminergic innervation of the basolateral amygdala. <i>Neuron</i> , 2021, 109, 4018-4035.e7.	3.8	26
6	The human olfactory bulb processes odor valence representation and cues motor avoidance behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
7	Basolateral amygdala to posterior piriform cortex connectivity ensures precision in learned odor threat. <i>Scientific Reports</i> , 2021, 11, 21746.	1.6	11
8	Cortical processing of configurally perceived odor mixtures. <i>Brain Research</i> , 2020, 1729, 146617.	1.1	14
9	Interaction Between Odor Identification Deficit and APOE4 Predicts 6-Year Cognitive Decline in Elderly Individuals. <i>Behavior Genetics</i> , 2020, 50, 3-13.	1.4	15
10	Post-exposure environment modulates long-term developmental ethanol effects on behavior, neuroanatomy, and cortical oscillations. <i>Brain Research</i> , 2020, 1748, 147128.	1.1	4
11	Behavioral and Neurobiological Convergence of Odor, Mood and Emotion: A Review. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 35.	1.0	51
12	Adverse caregiving in infancy blunts neural processing of the mother. <i>Nature Communications</i> , 2020, 11, 1119.	5.8	28
13	Non-invasive recording from the human olfactory bulb. <i>Nature Communications</i> , 2020, 11, 648.	5.8	47
14	Function of the Olfactory Cortex. , 2020, , 661-674.		0
15	A hunger for odour: Leptin modulation of olfaction. <i>Acta Physiologica</i> , 2019, 227, e13363.	1.8	2
16	During infant maltreatment, stress targets hippocampus, but stress with mother present targets amygdala and social behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22821-22832.	3.3	44
17	Sleep Impact on Perception, Memory, and Emotion in Adults and the Effects of Early-Life Experience. <i>Handbook of Behavioral Neuroscience</i> , 2019, , 593-610.	0.7	4
18	Effects of neonatal ethanol on cerebral cortex development through adolescence. <i>Brain Structure and Function</i> , 2019, 224, 1871-1884.	1.2	13

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19	Human olfactory-auditory integration requires phase synchrony between sensory cortices. <i>Nature Communications</i> , 2019, 10, 1168.	5.8	34
20	Neurobiology of maternal regulation of infant fear: the role of mesolimbic dopamine and its disruption by maltreatment. <i>Neuropsychopharmacology</i> , 2019, 44, 1247-1257.	2.8	42
21	Early Life Trauma Has Lifelong Consequences for Sleep And Behavior. <i>Scientific Reports</i> , 2019, 9, 16701.	1.6	24
22	The Value of Homework: Exposure to Odors in the Home Cage Enhances Odor-Discrimination Learning in Mice. <i>Chemical Senses</i> , 2019, 44, 135-143.	1.1	17
23	A specific olfactory cortico-thalamic pathway contributing to sampling performance during odor reversal learning. <i>Brain Structure and Function</i> , 2019, 224, 961-971.	1.2	15
24	Neonatal Ethanol Disturbs the Normal Maturation of Parvalbumin Interneurons Surrounded by Subsets of Perineuronal Nets in the Cerebral Cortex: Partial Reversal by Lithium. <i>Cerebral Cortex</i> , 2019, 29, 1383-1397.	1.6	23
25	Developing a neurobehavioral animal model of poverty: Drawing cross-species connections between environments of scarcity-adversity, parenting quality, and infant outcome. <i>Development and Psychopathology</i> , 2019, 31, 399-418.	1.4	52
26	Odor Identification in Rats: Behavioral and Electrophysiological Evidence of Learned Olfactory-Auditory Associations. <i>ENeuro</i> , 2019, 6, ENEURO.0102-19.2019.	0.9	9
27	Human Apolipoprotein E Genotype Differentially Affects Olfactory Behavior and Sensory Physiology in Mice. <i>Neuroscience</i> , 2018, 380, 103-110.	1.1	15
28	Human Olfaction: It Takes Two Villages. <i>Current Biology</i> , 2018, 28, R108-R110.	1.8	11
29	Maternal Regulation of Pupsâ€™ Cortical Activity: Role of Serotonergic Signaling. <i>ENeuro</i> , 2018, 5, ENEURO.0093-18.2018.	0.9	26
30	Neurobehavioral assessment of maternal odor in developing rat pups: implications for social buffering. <i>Social Neuroscience</i> , 2017, 12, 32-49.	0.7	63
31	Sleep and Odor Memory Consolidation in Non-human Animal Models. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2017, , 87-103.	0.1	1
32	Apolipoprotein E4 causes early olfactory network abnormalities and short-term olfactory memory impairments. <i>Neuroscience</i> , 2017, 343, 364-371.	1.1	31
33	Task-Related Cortical Asymmetry and Intra- and Inter-Hemispheric Separation. <i>Scientific Reports</i> , 2017, 7, 14602.	1.6	17
34	The Olfactory Mosaic: Bringing an Olfactory Network Together for Odor Perception. <i>Perception</i> , 2017, 46, 320-332.	0.5	41
35	Aversive Olfactory Conditioning. , 2017, , 103-104.		2
36	Alterations of the volatile metabolome in mouse models of Alzheimerâ€™s disease. <i>Scientific Reports</i> , 2016, 6, 19495.	1.6	29

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37	Stimulation-induced transient changes in neuronal activity, blood flow and N-acetylaspartate content in rat prefrontal cortex: a chemogenetic fMRI-fBOLD study. <i>NMR in Biomedicine</i> , 2016, 29, 1678-1687.	1.6	18
38	Development of Odor Hedonics: Experience-Dependent Ontogeny of Circuits Supporting Maternal and Predator Odor Responses in Rats. <i>Journal of Neuroscience</i> , 2016, 36, 6634-6650.	1.7	42
39	Neural Representation of Odor-Guided Behavior in the Rat Olfactory Thalamus. <i>Journal of Neuroscience</i> , 2016, 36, 5946-5960.	1.7	31
40	Brain processing of a configural vs elemental odor mixture in the newborn rabbit. <i>Brain Structure and Function</i> , 2016, 221, 2527-2539.	1.2	17
41	Long-term episodic memory decline is associated with olfactory deficits only in carriers of ApoE- ϵ 4. <i>Neuropsychologia</i> , 2016, 85, 1-9.	0.7	46
42	Rapidly acquired multisensory association in the olfactory cortex. <i>Brain and Behavior</i> , 2015, 5, e00390.	1.0	26
43	The olfactory thalamus: unanswered questions about the role of the mediodorsal thalamic nucleus in olfaction. <i>Frontiers in Neural Circuits</i> , 2015, 9, 49.	1.4	80
44	Olfactory memory networks: from emotional learning to social behaviors. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 36.	1.0	59
45	Optogenetic Stimulation of Lateral Amygdala Input to Posterior Piriform Cortex Modulates Single-Unit and Ensemble Odor Processing. <i>Frontiers in Neural Circuits</i> , 2015, 9, 81.	1.4	32
46	Paradoxical Neurobehavioral Rescue by Memories of Early-Life Abuse: The Safety Signal Value of Odors Learned during Abusive Attachment. <i>Neuropsychopharmacology</i> , 2015, 40, 906-914.	2.8	59
47	Differential Modifications of Synaptic Weights During Odor Rule Learning: Dynamics of Interaction Between the Piriform Cortex with Lower and Higher Brain Areas. <i>Cerebral Cortex</i> , 2015, 25, 180-191.	1.6	28
48	Selective reduction of cerebral cortex GABA neurons in a late gestation model of fetal alcohol spectrum disorder. <i>Alcohol</i> , 2015, 49, 571-580.	0.8	56
49	Dynamic cortical lateralization during olfactory discrimination learning. <i>Journal of Physiology</i> , 2015, 593, 1701-1714.	1.3	38
50	Early hyperactivity in lateral entorhinal cortex is associated with elevated levels of A β 2PP metabolites in the Tg2576 mouse model of Alzheimer's disease. <i>Experimental Neurology</i> , 2015, 264, 82-91.	2.0	60
51	Spared Piriform Cortical Single-Unit Odor Processing and Odor Discrimination in the Tg2576 Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2014, 9, e106431.	1.1	16
52	Sleep and olfactory cortical plasticity. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 134.	1.0	48
53	Differential memory persistence of odor mixture and components in newborn rabbits: competition between the whole and its parts. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 211.	1.0	10
54	Cortical Odor Processing in Health and Disease. <i>Progress in Brain Research</i> , 2014, 208, 275-305.	0.9	58

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55	Preface. Progress in Brain Research, 2014, 208, ix-x.	0.9	1
56	Neonatal representation of odour objects: distinct memories of the whole and its parts. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133319.	1.2	23
57	Slow-Wave Sleep-Imposed Replay Modulates Both Strength and Precision of Memory. Journal of Neuroscience, 2014, 34, 5134-5142.	1.7	126
58	Maternal Regulation of Infant Brain State. Current Biology, 2014, 24, 1664-1669.	1.8	54
59	Thalamic olfaction: characterizing odor processing in the mediodorsal thalamus of the rat. Journal of Neurophysiology, 2014, 111, 1274-1285.	0.9	48
60	Lateral Entorhinal Modulation of Piriform Cortical Activity and Fine Odor Discrimination. Journal of Neuroscience, 2013, 33, 13449-13459.	1.7	91
61	Immunization targeting a minor plaque constituent clears $\text{A}\beta$ -amyloid and rescues behavioral deficits in an Alzheimer's disease mouse model. Neurobiology of Aging, 2013, 34, 137-145.	1.5	33
62	Chronic anti-murine $\text{A}\beta$ immunization preserves odor guided behaviors in an Alzheimer's $\text{A}\beta$ -amyloidosis model. Behavioural Brain Research, 2013, 237, 96-102.	1.2	18
63	Cholinergic modulation of olfactory pattern separation. Neuroscience Letters, 2013, 545, 50-53.	1.0	39
64	Long-Lasting Neural Circuit Dysfunction Following Developmental Ethanol Exposure. Brain Sciences, 2013, 3, 704-727.	1.1	32
65	Bidirectional plasticity of cortical pattern recognition and behavioral sensory acuity. Nature Neuroscience, 2012, 15, 155-161.	7.1	182
66	Parallel Odor Processing by Two Anatomically Distinct Olfactory Bulb Target Structures. PLoS ONE, 2012, 7, e34926.	1.1	31
67	ApoE-Directed Therapeutics Rapidly Clear $\text{A}\beta$ -Amyloid and Reverse Deficits in AD Mouse Models. Science, 2012, 335, 1503-1506.	6.0	913
68	Sensory Network Dysfunction, Behavioral Impairments, and Their Reversibility in an Alzheimer's $\text{A}\beta$ -Amyloidosis Mouse Model. Journal of Neuroscience, 2011, 31, 15962-15971.	1.7	123
69	Pattern Separation: A Common Function for New Neurons in Hippocampus and Olfactory Bulb. Neuron, 2011, 70, 582-588.	3.8	432
70	Cortical Processing of Odor Objects. Neuron, 2011, 72, 506-519.	3.8	370
71	Daily Rhythms in Olfactory Discrimination Depend on Clock Genes but Not the Suprachiasmatic Nucleus. Journal of Biological Rhythms, 2011, 26, 552-560.	1.4	46
72	Local and Regional Network Function in Behaviorally Relevant Cortical Circuits of Adult Mice Following Postnatal Alcohol Exposure. Alcoholism: Clinical and Experimental Research, 2011, 35, 1974-1984.	1.4	53

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73	Interaction between delta opioid receptors and benzodiazepines in CO ₂ -induced respiratory responses in mice. <i>Brain Research</i> , 2011, 1396, 54-59.	1.1	8
74	Sniffing out the contributions of the olfactory tubercle to the sense of smell: Hedonics, sensory integration, and more?. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 655-668.	2.9	173
75	Generalized vs. stimulus-specific learned fear differentially modifies stimulus encoding in primary sensory cortex of awake rats. <i>Journal of Neurophysiology</i> , 2011, 106, 3136-3144.	0.9	78
76	Reversal of autophagy dysfunction in the TgCRND8 mouse model of Alzheimer's disease ameliorates amyloid pathologies and memory deficits. <i>Brain</i> , 2011, 134, 258-277.	3.7	394
77	Odor Fear Conditioning Modifies Piriform Cortex Local Field Potentials Both during Conditioning and during Post-Conditioning Sleep. <i>PLoS ONE</i> , 2011, 6, e18130.	1.1	49
78	Dynamics of Active Sensing and perceptual selection. <i>Current Opinion in Neurobiology</i> , 2010, 20, 172-176.	2.0	539
79	Sleep-Like States Modulate Functional Connectivity in the Rat Olfactory System. <i>Journal of Neurophysiology</i> , 2010, 104, 3231-3239.	0.9	47
80	Smelling Sounds: Olfactory-Auditory Sensory Convergence in the Olfactory Tubercle. <i>Journal of Neuroscience</i> , 2010, 30, 3013-3021.	1.7	114
81	Olfactory Dysfunction Correlates with Amyloid- β Burden in an Alzheimer's Disease Mouse Model. <i>Journal of Neuroscience</i> , 2010, 30, 505-514.	1.7	258
82	Single-Unit Activity in Piriform Cortex during Slow-Wave State Is Shaped by Recent Odor Experience. <i>Journal of Neuroscience</i> , 2010, 30, 1760-1765.	1.7	54
83	Auditory Stimulation Dishabituates Olfactory Responses via Noradrenergic Cortical Modulation. <i>Neural Plasticity</i> , 2009, 2009, 1-6.	1.0	17
84	Odor-specific habituation arises from interaction of afferent synaptic adaptation and intrinsic synaptic potentiation in olfactory cortex. <i>Learning and Memory</i> , 2009, 16, 452-459.	0.5	62
85	Sniffing out a function for prion proteins. <i>Nature Neuroscience</i> , 2009, 12, 7-8.	7.1	5
86	Pattern Separation and Completion in Olfaction. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 306-312.	1.8	51
87	Olfaction as a model system for the neurobiology of mammalian short-term habituation. <i>Neurobiology of Learning and Memory</i> , 2009, 92, 199-205.	1.0	40
88	Habituation revisited: An updated and revised description of the behavioral characteristics of habituation. <i>Neurobiology of Learning and Memory</i> , 2009, 92, 135-138.	1.0	1,167
89	Olfactory perceptual stability and discrimination. <i>Nature Neuroscience</i> , 2008, 11, 1378-1380.	7.1	189
90	Neurobehavioral consequences of cortical adaptation disruption during ontogeny. <i>Neuroscience Letters</i> , 2008, 445, 47-52.	1.0	4

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91	Distinct neural mechanisms mediate olfactory memory formation at different timescales. <i>Learning and Memory</i> , 2008, 15, 117-125.	0.5	77
92	Neurobiology of a Simple Memory. <i>Journal of Neurophysiology</i> , 2008, 100, 2-7.	0.9	101
93	Spatial and Temporal Distribution of Odorant-Evoked Activity in the Piriform Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 1534-1542.	1.7	181
94	Synaptic adaptation and odor-background segmentation. <i>Neurobiology of Learning and Memory</i> , 2007, 87, 352-360.	1.0	64
95	Odour Perception: An Object-Recognition Approach. <i>Perception</i> , 2007, 36, 1821-1833.	0.5	101
96	Dual Circuitry for Odor-Shock Conditioning during Infancy: Corticosterone Switches between Fear and Attraction via Amygdala. <i>Journal of Neuroscience</i> , 2006, 26, 6737-6748.	1.7	204
97	Olfactory Cortical Adaptation Facilitates Detection of Odors Against Background. <i>Journal of Neurophysiology</i> , 2006, 95, 1888-1896.	0.9	106
98	Cortical contributions to olfaction: Plasticity and perception. <i>Seminars in Cell and Developmental Biology</i> , 2006, 17, 462-470.	2.3	86
99	Separate encoding of identity and similarity of complex familiar odors in piriform cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15206-15211.	3.3	147
100	Ontogeny of cortical synaptic depression underlying olfactory sensory gating in the rat. <i>Developmental Brain Research</i> , 2005, 158, 107-110.	2.1	4
101	The role of metabotropic glutamate receptors and cortical adaptation in habituation of odor-guided behavior. <i>Learning and Memory</i> , 2005, 12, 601-605.	0.5	30
102	Cortical Metabotropic Glutamate Receptors Contribute to Habituation of a Simple Odor-Evoked Behavior. <i>Journal of Neuroscience</i> , 2005, 25, 2513-2517.	1.7	55
103	Odor Perception is Dynamic: Consequences for Interpretation of Odor Maps. <i>Chemical Senses</i> , 2005, 30, i105-i106.	1.1	3
104	Coordinate Synaptic Mechanisms Contributing to Olfactory Cortical Adaptation. <i>Journal of Neuroscience</i> , 2004, 24, 652-660.	1.7	100
105	Acetylcholine and Olfactory Perceptual Learning. <i>Learning and Memory</i> , 2004, 11, 28-34.	0.5	103
106	Olfactory perceptual learning: the critical role of memory in odor discrimination. <i>Neuroscience and Biobehavioral Reviews</i> , 2003, 27, 307-328.	2.9	168
107	Trans-neuronal regulation of cortical apoptosis in the adult rat olfactory system. <i>Brain Research</i> , 2003, 984, 182-188.	1.1	29
108	The fundamental role of memory in olfactory perception. <i>Trends in Neurosciences</i> , 2003, 26, 243-247.	4.2	231

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109	Rapid, Experience-Induced Enhancement in Odorant Discrimination by Anterior Piriform Cortex Neurons. <i>Journal of Neurophysiology</i> , 2003, 90, 65-72.	0.9	125
110	Olfactory Bulb Mitral-Tufted Cell Plasticity: Odorant-Specific Tuning Reflects Previous Odorant Exposure. <i>Journal of Neuroscience</i> , 2003, 23, 6946-6955.	1.7	106
111	Experience Modifies Olfactory Acuity: Acetylcholine-Dependent Learning Decreases Behavioral Generalization between Similar Odorants. <i>Journal of Neuroscience</i> , 2002, 22, RC201-RC201.	1.7	125
112	Good memories of bad events in infancy. <i>Nature</i> , 2000, 407, 38-39.	13.7	299
113	Odor Specificity of Habituation in the Rat Anterior Piriform Cortex. <i>Journal of Neurophysiology</i> , 2000, 83, 139-145.	0.9	77
114	Comparison of Odor Receptive Field Plasticity in the Rat Olfactory Bulb and Anterior Piriform Cortex. <i>Journal of Neurophysiology</i> , 2000, 84, 3036-3042.	0.9	98
115	Functional coupling in rat central olfactory pathways: a coherence analysis. <i>Neuroscience Letters</i> , 1999, 276, 17-20.	1.0	44
116	Habituation of Odor Responses in the Rat Anterior Piriform Cortex. <i>Journal of Neurophysiology</i> , 1998, 79, 1425-1440.	0.9	212
117	Synaptic Correlates of Odor Habituation in the Rat Anterior Piriform Cortex. <i>Journal of Neurophysiology</i> , 1998, 80, 998-1001.	0.9	73
118	Binaral Interactions in the Rat Piriform Cortex. <i>Journal of Neurophysiology</i> , 1997, 78, 160-169.	0.9	64
119	Early locus coeruleus lesions increase the density of β^2 -adrenergic receptors in the main olfactory bulb of rats. <i>International Journal of Developmental Neuroscience</i> , 1996, 14, 913-919.	0.7	16
120	Dissociation of behavioral and neural correlates of early associative learning. <i>Developmental Psychobiology</i> , 1995, 28, 213-219.	0.9	38
121	NMDA receptors mediate expression of one form of functional plasticity induced by olfactory deprivation. <i>Brain Research</i> , 1995, 677, 238-242.	1.1	27
122	Bilateral 6-OHDA lesions of the locus coeruleus impair associative olfactory learning in newborn rats. <i>Brain Research</i> , 1994, 643, 306-309.	1.1	80
123	Blockade of mitral/tufted cell habituation to odors by association with reward: a preliminary note. <i>Brain Research</i> , 1992, 594, 143-145.	1.1	35
124	Olfactory associative conditioning in infant rats with brain stimulation as reward: II. Norepinephrine mediates a specific component of the bulb response to reward.. <i>Behavioral Neuroscience</i> , 1991, 105, 843-849.	0.6	44
125	Modified behavioral and olfactory bulb responses to maternal odors in preweanling rats. <i>Developmental Brain Research</i> , 1990, 53, 243-247.	2.1	81