Douglas G Wallace

List of Publications by Year
in descending order

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54 papers	1,284 citations	430442 18 h-index	377514 34 g-index
57 all docs	57 docs citations	57 times ranked	754 citing authors

#	Article	IF	Citations
1	Vestibular Information Is Required for Dead Reckoning in the Rat. Journal of Neuroscience, 2002, 22, 10009-10017.	1.7	168
2	Dead reckoning (path integration) requires the hippocampal formation: evidence from spontaneous exploration and spatial learning tasks in light (allothetic) and dark (idiothetic) tests. Behavioural Brain Research, 2001, 127, 49-69.	1.2	161
3	Rats can track odors, other rats, and themselves: implications for the study of spatial behavior. Behavioural Brain Research, 2002, 131, 185-192.	1.2	104
4	NMDA lesions of Ammon's horn and the dentate gyrus disrupt the direct and temporally paced homing displayed by rats exploring a novel environment: evidence for a role of the hippocampus in dead reckoning. European Journal of Neuroscience, 2003, 18, 513-523.	1.2	59
5	Quantification of a single exploratory trip reveals hippocampal formation mediated dead reckoning. Journal of Neuroscience Methods, 2002, 113, 131-145.	1.3	53
6	The development of spatial capacity in piloting and dead reckoning by infant rats: Use of the huddle as a home base for spatial navigation. Developmental Psychobiology, 2005, 46, 350-361.	0.9	48
7	Movement characteristics support a role for dead reckoning in organizing exploratory behavior. Animal Cognition, 2006, 9, 219-228.	0.9	48
8	Fimbria-Fornix Lesions Disrupt the Dead Reckoning (Homing) Component of Exploratory Behavior in Mice. Learning and Memory, 2002, 9, 387-394.	0.5	39
9	Medial septum lesions disrupt exploratory trip organization: Evidence for septohippocampal involvement in dead reckoning. Physiology and Behavior, 2007, 90, 412-424.	1.0	35
10	Fractionating dead reckoning: role of the compass, odometer, logbook, and home base establishment in spatial orientation. Die Naturwissenschaften, 2008, 95, 1011-1026.	0.6	34
11	Selective hippocampal cholinergic deafferentation impairs self-movement cue use during a food hoarding task. Behavioural Brain Research, 2007, 183, 78-86.	1.2	31
12	On the origins of autobiographical memory. Behavioural Brain Research, 2003, 138, 113-119.	1.2	25
13	The structure of arm and hand movements in a spontaneous and food rewarded on-line string-pulling task by the mouse. Behavioural Brain Research, 2018, 345, 49-58.	1.2	25
14	Limbic system structures differentially contribute to exploratory trip organization of the rat. Hippocampus, 2013, 23, 139-152.	0.9	24
15	Number, But Not Rhythmicity, of Temporal Cues Determines Phrasing Effects in Rat Serial-Pattern Learning. Learning and Motivation, 2000, 31, 301-322.	0.6	23
16	Subcutaneous daidzein administration enhances recovery of skilled ladder rung walking performance following stroke in rats. Behavioural Brain Research, 2013, 256, 428-431.	1.2	23
17	Unilateral forelimb sensorimotor cortex devascularization disrupts the topographic and kinematic characteristics of hand movements while string-pulling for food in the rat. Behavioural Brain Research, 2018, 338, 88-100.	1.2	23
18	Mammillothalamic tract lesions disrupt dead reckoning in the rat. European Journal of Neuroscience, 2011, 33, 371-381.	1.2	22

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19	String-pulling for food by the rat: Assessment of movement, topography and kinematics of a bilaterally skilled forelimb act. Learning and Motivation, 2018, 61, 63-73.	0.6	22
20	What is learned in sequential learning? An associative model of reward magnitude serial-pattern learning.. Journal of Experimental Psychology, 2002, 28, 43-63.	1.9	21
21	Lesions of the hippocampus or dorsolateral striatum disrupt distinct aspects of spatial navigation strategies based on proximal and distal information in a cued variant of the Morris water task. Behavioural Brain Research, 2015, 289, 105-117.	1.2	20
22	Otolithic information is required for homing in the mouse. Hippocampus, 2015, 25, 890-899.	0.9	19
23	Otolith dysfunction alters exploratory movement in mice. Behavioural Brain Research, 2017, 325, 1-11.	1.2	19
24	Comparative analysis of movement characteristics during dead-reckoning-based navigation in humans and rats.. Journal of Comparative Psychology (Washington, D C: 1983), 2006, 120, 331-344.	0.3	18
25	Infusion of GAT1-saporin into the medial septum/vertical limb of the diagonal band disrupts self-movement cue processing and spares mnemonic function. Brain Structure and Function, 2013, 218, 1099-1114.	1.2	17
26	Antisense oligonucleotide therapy rescues disruptions in organization of exploratory movements associated with Usher syndrome type 1C in mice. Behavioural Brain Research, 2018, 338, 76-87.	1.2	17
27	Pharmacological manipulations of food protection behavior in rats: Evidence for dopaminergic contributions to time perception during a natural behavior. Brain Research, 2006, 1112, 213-221.	1.1	15
28	Skilled movement and posture deficits in rat string-pulling behavior following low dose space radiation (28Si) exposure. Behavioural Brain Research, 2021, 400, 113010.	1.2	15
29	Organization of food protection behavior is differentially influenced by 192 IgG-saporin lesions of either the medial septum or the nucleus basalis magnocellularis. Brain Research, 2008, 1241, 122-135.	1.1	14
30	Human string-pulling with and without a string: movement, sensory control, and memory. Experimental Brain Research, 2019, 237, 3431-3447.	0.7	14
31	Determinants of phrasing effects in rat serial pattern learning. Animal Cognition, 2008, 11, 199-214.	0.9	13
32	Navigating with fingers and feet: Analysis of human (Homo sapiens) and rat (Rattus norvegicus) movement organization during nonvisual spatial tasks.. Journal of Comparative Psychology (Washington, D C: 1983), 2010, 124, 381-394.	0.3	11
33	Cholinergic deafferentation of the hippocampus causes non-temporally graded retrograde amnesia in an odor discrimination task. Behavioural Brain Research, 2016, 299, 97-104.	1.2	10
34	Rapid loss of fine motor skills after low dose space radiation exposure. Behavioural Brain Research, 2022, 430, 113907.	1.2	10
35	Organization of exploratory behavior under dark conditions in female and male rats. Behavioural Processes, 2021, 189, 104437.	0.5	9
36	Serial pattern learning during skilled walking. Journal of Integrative Neuroscience, 2012, 11, 17-32.	0.8	8

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37	Comparison of direction and distance estimation across spatial tasks: Absence of sexually dimorphic self-movement cues processing. Learning and Motivation, 2015, 51, 11-24.	0.6	8
38	Neuroethology of spatial cognition. Current Biology, 2018, 28, R988-R992.	1.8	8
39	The medial frontal cortex contributes to but does not organize rat exploratory behavior. Neuroscience, 2016, 336, 1-11.	1.1	7
40	Effects of string length on the organization of rat string-pulling behavior. Animal Cognition, 2020, 23, 415-425.	0.9	7
41	Analysis of movement kinematics on analogous spatial learning tasks demonstrates conservation of direction and distance estimation across humans (Homo sapiens) and rats (Rattus norvegicus).. Journal of Comparative Psychology (Washington, D C: 1983), 2013, 127, 179-193.	0.3	6
42	Effects of acquired vestibular pathology on the organization of mouse exploratory behavior. Experimental Brain Research, 2021, 239, 1125-1139.	0.7	5
43	A history of adolescent binge drinking in humans is associated with impaired self-movement cue processing on manipulatory scale navigation tasks. Physiology and Behavior, 2016, 161, 130-139.	1.0	4
44	Sequential organization of movement kinematics is associated with spatial orientation across scales and species. Learning and Motivation, 2017, 58, 27-36.	0.6	4
45	Sexually dimorphic organization of open field behavior following moderate prenatal alcohol exposure. Alcoholism: Clinical and Experimental Research, 2022, 46, 861-875.	1.4	3
46	Exposure to 5 cGy 28Si Particles Induces Long-Term Microglial Activation in the Striatum and Subventricular Zone and Concomitant Neurogenic Suppression. Radiation Research, 2022, , .	0.7	3
47	Odor tracking in rats with orbital frontal lesions.. Behavioral Neuroscience, 2003, 117, 616-620.	0.6	2
48	High dose alcohol consumption predicts less reduction in post-traumatic stress symptoms after a campus mass shooting. Anxiety, Stress and Coping, 2017, 30, 609-618.	1.7	2
49	Unilateral lesions of the dorsocentral striatum (DCS) disrupt spatial and temporal characteristics of food protection behavior. Brain Structure and Function, 2017, 222, 2697-2710.	1.2	2
50	Making waves: Comparing Morris water task performance in rats and prairie voles. Behavioural Brain Research, 2019, 360, 7-15.	1.2	2
51	Reprint of â€œSequential organization of movement kinematics is associated with spatial orientation across scales and speciesâ€. Learning and Motivation, 2018, 61, 32-40.	0.6	1
52	Effects of Dietary Soy Protein Isolate Versus Isoflavones Alone on Poststroke Skilled Ladder Rung Walking and Cortical mRNA Expression Differ in Adult Male Rats. Journal of Medicinal Food, 2022, 25, 158-165.	0.8	1
53	Ethological approaches to studying psychological phenomena. Learning and Motivation, 2018, 61, 1-2.	0.6	0
54	A Semiâ€Purified Soy Protein Diet Preserves Skilled Ladder Rung Walking Performance after Stroke in Rats. FASEB Journal, 2012, 26, 921.6.	0.2	0