

# Mark E Walton

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

8,775  
citations

185998

28  
h-index

223531

46  
g-index

60  
all docs

60  
docs citations

60  
times ranked

7389  
citing authors

#	ARTICLE	IF	CITATIONS
1	5-HT <sub>2C</sub> receptor perturbation has bidirectional influence over instrumental vigour and restraint. <i>Psychopharmacology</i> , 2022, 239, 123-140.	1.5	3
2	Open-source, Python-based, hardware and software for controlling behavioural neuroscience experiments. <i>ELife</i> , 2022, 11, .	2.8	26
3	Nucleus accumbens D1-receptors regulate and focus transitions to reward-seeking action. <i>Neuropsychopharmacology</i> , 2022, 47, 1721-1731.	2.8	0
4	What is dopamine doing in model-based reinforcement learning?. <i>Current Opinion in Behavioral Sciences</i> , 2021, 38, 74-82.	2.0	11
5	Defining an orbitofrontal compass: Functional and anatomical heterogeneity across anteriorâ€“posterior and medialâ€“lateral axes.. <i>Behavioral Neuroscience</i> , 2021, 135, 165-173.	0.6	16
6	Organization of Afferents along the Anteriorâ€“posterior and Medialâ€“lateral Axes of the Rat Orbitofrontal Cortex. <i>Neuroscience</i> , 2021, 460, 53-68.	1.1	31
7	Distinct roles for dopamine clearance mechanisms in regulating behavioral flexibility. <i>Molecular Psychiatry</i> , 2021, 26, 7188-7199.	4.1	20
8	Amphetamine disrupts haemodynamic correlates of prediction errors in nucleus accumbens and orbitofrontal cortex. <i>Neuropsychopharmacology</i> , 2020, 45, 793-803.	2.8	11
9	Noradrenergic But Not Dopaminergic Neurons Signal Task State Changes and Predict Reengagement After a Failure. <i>Cerebral Cortex</i> , 2020, 30, 4979-4994.	1.6	12
10	Behavioral flexibility is associated with changes in structure and function distributed across a frontal cortical network in macaques. <i>PLoS Biology</i> , 2020, 18, e3000605.	2.6	24
11	Time-dependent assessment of stimulus-evoked regional dopamine release. <i>Nature Communications</i> , 2019, 10, 336.	5.8	31
12	pyPhotometry: Open source Python based hardware and software for fiber photometry data acquisition. <i>Scientific Reports</i> , 2019, 9, 3521.	1.6	28
13	What Is the Relationship between Dopamine and Effort?. <i>Trends in Neurosciences</i> , 2019, 42, 79-91.	4.2	90
14	Editorial: Memory Systems of the Addicted Brain: The Underestimated Role of Cognitive Biases in Addiction and Its Treatment. <i>Frontiers in Psychiatry</i> , 2018, 9, 30.	1.3	0
15	Dual contributions of noradrenaline to behavioural flexibility and motivation. <i>Psychopharmacology</i> , 2018, 235, 2687-2702.	1.5	37
16	Sleep homeostasis, habits and habituation. <i>Current Opinion in Neurobiology</i> , 2017, 44, 202-211.	2.0	27
17	Fatigue modulates dopamine availability and promotes flexible choice reversals during decision making. <i>Scientific Reports</i> , 2017, 7, 535.	1.6	30
18	Mesolimbic Dopamine Encodes Prediction Errors in a State-Dependent Manner. <i>Cell Reports</i> , 2016, 15, 221-228.	2.9	62

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19	Action initiation shapes mesolimbic dopamine encoding of future rewards. <i>Nature Neuroscience</i> , 2016, 19, 34-36.	7.1	177
20	Reward-Guided Learning with and without Causal Attribution. <i>Neuron</i> , 2016, 90, 177-190.	3.8	69
21	Critical role for the mediodorsal thalamus in permitting rapid reward-guided updating in stochastic reward environments. <i>ELife</i> , 2016, 5, .	2.8	50
22	Prioritising the relevant information for learning and decision making within orbital and ventromedial prefrontal cortex. <i>Current Opinion in Behavioral Sciences</i> , 2015, 1, 78-85.	2.0	26
23	Contrasting Roles for Orbitofrontal Cortex and Amygdala in Credit Assignment and Learning in Macaques. <i>Neuron</i> , 2015, 87, 1106-1118.	3.8	138
24	Using intermediate cognitive endpoints to facilitate translational research in psychosis. <i>Current Opinion in Behavioral Sciences</i> , 2015, 4, 128-135.	2.0	4
25	Neuroscience of foraging. <i>Frontiers in Neuroscience</i> , 2014, 8, 81.	1.4	27
26	Unilateral medial frontal cortex lesions cause a cognitive decision-making deficit in rats. <i>European Journal of Neuroscience</i> , 2014, 40, 3757-3765.	1.2	9
27	Dopamine-associated cached values are not sufficient as the basis for action selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18357-18362.	3.3	42
28	A neural mechanism underlying failure of optimal choice with multiple alternatives. <i>Nature Neuroscience</i> , 2014, 17, 463-470.	7.1	116
29	Frontal Cortex and Reward-Guided Learning and Decision-Making. <i>Neuron</i> , 2011, 70, 1054-1069.	3.8	921
30	Giving credit where credit is due: orbitofrontal cortex and valuation in an uncertain world. <i>Annals of the New York Academy of Sciences</i> , 2011, 1239, 14-24.	1.8	85
31	Decision making and reward in frontal cortex: Complementary evidence from neurophysiological and neuropsychological studies.. <i>Behavioral Neuroscience</i> , 2011, 125, 297-317.	0.6	133
32	Dissociable cost and benefit encoding of future rewards by mesolimbic dopamine. <i>Nature Neuroscience</i> , 2010, 13, 25-27.	7.1	212
33	Separable Learning Systems in the Macaque Brain and the Role of Orbitofrontal Cortex in Contingent Learning. <i>Neuron</i> , 2010, 65, 927-939.	3.8	344
34	Effort-Based Cost-Benefit Valuation and the Human Brain. <i>Journal of Neuroscience</i> , 2009, 29, 4531-4541.	1.7	458
35	Comparing the role of the anterior cingulate cortex and 6-hydroxydopamine nucleus accumbens lesions on operant effort-based decision making. <i>European Journal of Neuroscience</i> , 2009, 29, 1678-1691.	1.2	112
36	Evaluating and revaluing outcomes in the frontal lobe (Commentary on Kennerley and Wallis). <i>European Journal of Neuroscience</i> , 2009, 29, 2060-2060.	1.2	0

#	ARTICLE	IF	CITATIONS
37	Frontal Cortex Subregions Play Distinct Roles in Choices between Actions and Stimuli. <i>Journal of Neuroscience</i> , 2008, 28, 13775-13785.	1.7	299
38	Adaptive decision making and value in the anterior cingulate cortex. <i>NeuroImage</i> , 2007, 36, T142-T154.	2.1	139
39	Learning the value of information in an uncertain world. <i>Nature Neuroscience</i> , 2007, 10, 1214-1221.	7.1	1,650
40	Distinct contributions of frontal areas to emotion and social behaviour in the rat. <i>European Journal of Neuroscience</i> , 2007, 26, 2315-2326.	1.2	112
41	Functional organization of the medial frontal cortex. <i>Current Opinion in Neurobiology</i> , 2007, 17, 220-227.	2.0	368
42	Probing human and monkey anterior cingulate cortex in variable environments. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2007, 7, 413-422.	1.0	34
43	Calculating the Cost of Acting in Frontal Cortex. <i>Annals of the New York Academy of Sciences</i> , 2007, 1104, 340-356.	1.8	85
44	Calculating utility: preclinical evidence for cost-benefit analysis by mesolimbic dopamine. <i>Psychopharmacology</i> , 2007, 191, 483-495.	1.5	215
45	Optimal decision making and the anterior cingulate cortex. <i>Nature Neuroscience</i> , 2006, 9, 940-947.	7.1	802
46	Separate neural pathways process different decision costs. <i>Nature Neuroscience</i> , 2006, 9, 1161-1168.	7.1	521
47	Interactions between decision making and performance monitoring within prefrontal cortex. <i>Nature Neuroscience</i> , 2004, 7, 1259-1265.	7.1	393
48	Functional Specialization within Medial Frontal Cortex of the Anterior Cingulate for Evaluating Effort-Related Decisions. <i>Journal of Neuroscience</i> , 2003, 23, 6475-6479.	1.7	434
49	The Role of Rat Medial Frontal Cortex in Effort-Based Decision Making. <i>Journal of Neuroscience</i> , 2002, 22, 10996-11003.	1.7	317