Paul E M Phillips

List of Publications by Year
in descending order

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97 papers	14,001 citations	26630 56 h-index	43889 91 g-index
101 all docs	101 docs citations	101 times ranked	11022 citing authors

#	Article	IF	Citations
1	Subsecond dopamine release promotes cocaine seeking. Nature, 2003, 422, 614-618.	27.8	1,020
2	A selective role for dopamine in stimulusâ€“reward learning. Nature, 2011, 469, 53-57.	27.8	871
3	Dopamine Operates as a Subsecond Modulator of Food Seeking. Journal of Neuroscience, 2004, 24, 1265-1271.	3.6	635
4	Catastrophic ape decline in western equatorial Africa. Nature, 2003, 422, 611-614.	27.8	530
5	Prolonged dopamine signalling in striatum signals proximity and value of distant rewards. Nature, 2013, 500, 575-579.	27.8	444
6	Real-time measurement of dopamine fluctuations after cocaine in the brain of behaving rats. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10023-10028.	7.1	427
7	Alteration of ethanol self-administration by naltrexone. Life Sciences, 1980, 26, 679-688.	4.3	377
8	Transient neuronal inhibition reveals opposing roles of indirect and direct pathways in sensitization. Nature Neuroscience, 2011, 14, 22-24.	14.8	377
9	Disruption of NMDAR-dependent burst firing by dopamine neurons provides selective assessment of phasic dopamine-dependent behavior. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7281-7288.	7.1	360
10	Overoxidation of carbon-fiber microelectrodes enhances dopamine adsorption and increases sensitivityElectronic supplementary information (ESI) available: National Instruments Data Acquisition System. See http://www.rsc.org/suppdata/an/b3/b307024g/. Analyst, The, 2003, 128, 1413.	3.5	335
11	Phasic Dopamine Release Evoked by Abused Substances Requires Cannabinoid Receptor Activation. Journal of Neuroscience, 2007, 27, 791-795.	3.6	334
12	Chronic microsensors for longitudinal, subsecond dopamine detection in behaving animals. Nature Methods, 2010, 7, 126-129.	19.0	316
13	Cannabinoids Enhance Subsecond Dopamine Release in the Nucleus Accumbens of Awake Rats. Journal of Neuroscience, 2004, 24, 4393-4400.	3.6	303
14	An Animal Model of Genetic Vulnerability to Behavioral Disinhibition and Responsiveness to Reward-Related Cues: Implications for Addiction. Neuropsychopharmacology, 2010, 35, 388-400.	5.4	303
15	Weighing up the benefits of work: Behavioral and neural analyses of effort-related decision making. Neural Networks, 2006, 19, 1302-1314.	5.9	265
16	Severe stress switches CRF action in the nucleus accumbens from appetitive to aversive. Nature, 2012, 490, 402-406.	27.8	255
17	Excessive cocaine use results from decreased phasic dopamine signaling in the striatum. Nature Neuroscience, 2014, 17, 704-709.	14.8	239
18	Phasic Dopamine Release in the Rat Nucleus Accumbens Symmetrically Encodes a Reward Prediction Error Term. Journal of Neuroscience, 2014, 34, 698-704.	3.6	238

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19	Corticotropinâ€releasing factor increases mouse ventral tegmental area dopamine neuron firing through a protein kinase Câ€dependent enhancement of I_h. Journal of Physiology, 2008, 586, 2157-2170.	2.9	235
20	Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. Journal of Neurochemistry, 2003, 87, 1284-1295.	3.9	232
21	Hierarchical recruitment of phasic dopamine signaling in the striatum during the progression of cocaine use. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20703-20708.	7.1	222
22	Calculating utility: preclinical evidence for costâ€“benefit analysis by mesolimbic dopamine. Psychopharmacology, 2007, 191, 483-495.	3.1	215
23	Cocaine Increases Dopamine Release by Mobilization of a Synapsin-Dependent Reserve Pool. Journal of Neuroscience, 2006, 26, 3206-3209.	3.6	213
24	Dissociable cost and benefit encoding of future rewards by mesolimbic dopamine. Nature Neuroscience, 2010, 13, 25-27.	14.8	212
25	Mesocortical Dopamine Neurons Operate in Distinct Temporal Domains Using Multimodal Signaling. Journal of Neuroscience, 2005, 25, 5013-5023.	3.6	209
26	Rapid Dopamine Signaling in the Nucleus Accumbens during Contingent and Noncontingent Cocaine Administration. Neuropsychopharmacology, 2005, 30, 853-863.	5.4	203
27	Cre recombinase-mediated restoration of nigrostriatal dopamine in dopamine-deficient mice reverses hypophagia and bradykinesia. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8858-8863.	7.1	196
28	Subsecond dopamine fluctuations in human striatum encode superposed error signals about actual and counterfactual reward. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 200-205.	7.1	170
29	Hitchhikerâ€™s Guide to Voltammetry: Acute and Chronic Electrodes for in Vivo Fast-Scan Cyclic Voltammetry. ACS Chemical Neuroscience, 2017, 8, 221-234.	3.5	167
30	Dopamine Signaling in the Nucleus Accumbens of Animals Self-Administering Drugs of Abuse. Current Topics in Behavioral Neurosciences, 2010, 3, 29-71.	1.7	166
31	Phasic Dopamine Release in Appetitive Behaviors and Drug Addiction. Current Drug Abuse Reviews, 2009, 2, 195-213.	3.4	156
32	Dopamine release is heterogeneous within microenvironments of the rat nucleus accumbens. European Journal of Neuroscience, 2007, 26, 2046-2054.	2.6	155
33	Dynamic Gain Control of Dopamine Delivery in Freely Moving Animals. Journal of Neuroscience, 2004, 24, 1754-1759.	3.6	154
34	Kappa Opioid Receptor-Induced Aversion Requires p38 MAPK Activation in VTA Dopamine Neurons. Journal of Neuroscience, 2015, 35, 12917-12931.	3.6	147
35	Controls of Tonic and Phasic Dopamine Transmission in the Dorsal and Ventral Striatum. Molecular Pharmacology, 2009, 76, 396-404.	2.3	146
36	Dopamine Modulates Persistent Synaptic Activity and Enhances the Signal-to-Noise Ratio in the Prefrontal Cortex. PLoS ONE, 2009, 4, e6507.	2.5	134

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37	Sub-second changes in accumbal dopamine during sexual behavior in male rats. NeuroReport, 2001, 12, 2549-2552.	1.2	133
38	Phasic Dopamine Release in the Nucleus Accumbens in Response to Pro-Social 50 kHz Ultrasonic Vocalizations in Rats. Journal of Neuroscience, 2014, 34, 10616-10623.	3.6	130
39	Control of Extracellular Dopamine at Dendrite and Axon Terminals. Journal of Neuroscience, 2010, 30, 6975-6983.	3.6	118
40	Time window of autoreceptor-mediated inhibition of limbic and striatal dopamine release. Synapse, 2002, 44, 15-22.	1.2	117
41	Making the best of brain slices; comparing preparative methods. Journal of Neuroscience Methods, 1995, 59, 151-156.	2.5	109
42	Psychophysiological Mediators of Caregiver Stress and Differential Cognitive Decline.. Psychology and Aging, 2005, 20, 402-411.	1.6	105
43	CRF acts in the midbrain to attenuate accumbens dopamine release to rewards but not their predictors. Nature Neuroscience, 2013, 16, 383-385.	14.8	105
44	Sub-Second Dopamine Detection in Human Striatum. PLoS ONE, 2011, 6, e23291.	2.5	100
45	A role for presynaptic mechanisms in the actions of nomifensine and haloperidol. Neuroscience, 2003, 118, 819-829.	2.3	99
46	Pavlovian valuation systems in learning and decision making. Current Opinion in Neurobiology, 2012, 22, 1054-1061.	4.2	95
47	Critical guidelines for validation of the selectivity of in-vivo chemical microsensors. TrAC - Trends in Analytical Chemistry, 2003, 22, 509-514.	11.4	93
48	Delays Conferred by Escalating Costs Modulate Dopamine Release to Rewards But Not Their Predictors. Journal of Neuroscience, 2010, 30, 12020-12027.	3.6	92
49	Stress effects on the neural substrates of motivated behavior. Nature Neuroscience, 2015, 18, 1405-1412.	14.8	89
50	Risk preference following adolescent alcohol use is associated with corrupted encoding of costs but not rewards by mesolimbic dopamine. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5466-5471.	7.1	84
51	Dopamine Encoding of Pavlovian Incentive Stimuli Diminishes with Extended Training. Journal of Neuroscience, 2013, 33, 3526-3532.	3.6	83
52	Real-Time Measurements of Phasic Changes in Extracellular Dopamine Concentration in Freely Moving Rats by Fast-Scan Cyclic Voltammetry. , 2003, 79, 443-464.		81
53	Absence of NMDA receptors in dopamine neurons attenuates dopamine release but not conditioned approach during Pavlovian conditioning. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13491-13496.	7.1	77
54	Direct-Pathway Striatal Neurons Regulate the Retention of Decision-Making Strategies. Journal of Neuroscience, 2013, 33, 11668-11676.	3.6	77

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55	Dynamic shaping of dopamine signals during probabilistic Pavlovian conditioning. Neurobiology of Learning and Memory, 2015, 117, 84-92.	1.9	75
56	The Protective Action Encoding of Serotonin Transients in the Human Brain. Neuropsychopharmacology, 2018, 43, 1425-1435.	5.4	70
57	The Time Course of Dopamine Transmission in the Ventral Tegmental Area. Journal of Neuroscience, 2009, 29, 13344-13352.	3.6	69
58	CRF Enhancement of GIRK Channel-Mediated Transmission in Dopamine Neurons. Neuropsychopharmacology, 2009, 34, 1926-1935.	5.4	65
59	Terminal effects of ethanol on dopamine dynamics in rat nucleus accumbens: An in vitro voltammetric study. Synapse, 2001, 42, 77-79.	1.2	59
60	Repeated Stress Dysregulates Î¹-Opioid Receptor Signaling in the Dorsal Raphe through a p38Î± MAPK-Dependent Mechanism. Journal of Neuroscience, 2012, 32, 12325-12336.	3.6	53
61	Kappa Opioid Receptor Activation Potentiates the Cocaine-Induced Increase in Evoked Dopamine Release Recorded In Vivo in the Mouse Nucleus Accumbens. Neuropsychopharmacology, 2014, 39, 3036-3048.	5.4	53
62	Differential recruitment of N-, P- and Q-type voltage-operated calcium channels in striatal dopamine release evoked by â€˜regularâ€™ and â€˜burstâ€™ firing. Brain Research, 2000, 884, 139-146.	2.2	52
63	Intragastric self-administration of psychoactive drugs by the rhesus monkey. Life Sciences, 1975, 17, 883-890.	4.3	51
64	Paradoxical modulation of short-term facilitation of dopamine release by dopamine autoreceptors. Journal of Neurochemistry, 2007, 102, 1115-1124.	3.9	49
65	Cocaine Increases Dopaminergic Neuron and Motor Activity via Midbrain Î±1 Adrenergic Signaling. Neuropsychopharmacology, 2015, 40, 1151-1162.	5.4	49
66	Genetic Isolation of Hypothalamic Neurons that Regulate Context-Specific Male Social Behavior. Cell Reports, 2016, 16, 304-313.	6.4	49
67	Dopamine-associated cached values are not sufficient as the basis for action selection. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18357-18362.	7.1	42
68	Monitoring extracellular pH, oxygen, and dopamine during reward delivery in the striatum of primates. Frontiers in Behavioral Neuroscience, 2012, 6, 36.	2.0	41
69	Peroxiredoxin 6 mediates GÎ±i protein-coupled receptor inactivation by cJun kinase. Nature Communications, 2017, 8, 743.	12.8	41
70	Presynaptic regulation of dendrodendritic dopamine transmission. European Journal of Neuroscience, 2007, 26, 1479-1488.	2.6	39
71	Presynaptic dopaminergic function is largely unaltered in mesolimbic and mesostriatal terminals of adult rats that were prenatally exposed to cocaine. Brain Research, 2003, 961, 63-72.	2.2	33
72	Report on the third EDNAP collaborative STR exercise. Forensic Science International, 1996, 78, 83-93.	2.2	29

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73	Altered Risk-Based Decision Making following Adolescent Alcohol Use Results from an Imbalance in Reinforcement Learning in Rats. PLoS ONE, 2012, 7, e37357.	2.5	27
74	Uptake of D-serine by synaptosomal P2 fraction isolated from rat brain. Synapse, 2001, 42, 84-86.	1.2	23
75	Extrasynaptic dopamine and phasic neuronal activity. Nature Neuroscience, 2004, 7, 199-199.	14.8	23
76	Representation of Subjective Value in the Striatum. , 2009, , 389-406.		23
77	Dopamine Encodes Retrospective Temporal Information in a Context-Independent Manner. Cell Reports, 2017, 20, 1765-1774.	6.4	23
78	Genetic variation in COMT activity impacts learning and dopamine release capacity in the striatum. Learning and Memory, 2014, 21, 205-214.	1.3	22
79	Pramipexole enhances disadvantageous decision-making: Lack of relation to changes in phasic dopamine release. Neuropharmacology, 2017, 114, 77-87.	4.1	22
80	Implantable Aptamer-Graphene Microtransistors for Real-Time Monitoring of Neurochemical Release in Vivo. Nano Letters, 2022, 22, 3668-3677.	9.1	21
81	Overinhibition of corticostriatal activity following prenatal cocaine exposure. Annals of Neurology, 2013, 73, 355-369.	5.3	18
82	Repeated stress exposure causes strainâ€dependent shifts in the behavioral economics of cocaine in rats. Addiction Biology, 2015, 20, 297-301.	2.6	16
83	Repetitive blast mild traumatic brain injury increases ethanol sensitivity in male mice and risky drinking behavior in male combat veterans. Alcoholism: Clinical and Experimental Research, 2021, 45, 1051-1064.	2.4	16
84	Catecholaminergic Innervation of the Lateral Nucleus of the Cerebellum Modulates Cognitive Behaviors. Journal of Neuroscience, 2021, 41, 3512-3530.	3.6	15
85	The 5Î±-reductase inhibitor finasteride reduces opioid self-administration in animal models of opioid use disorder. Journal of Clinical Investigation, 2021, 131, .	8.2	12
86	Real-time decoding of dopamine concentration changes in the caudate?putamen during tonic and phasic firing. Journal of Neurochemistry, 2004, 89, 526-526.	3.9	10
87	Repetitive Blast Promotes Chronic Aversion to Neutral Cues Encountered in the Peri-Blast Environment. Journal of Neurotrauma, 2021, 38, 940-948.	3.4	10
88	Insidious Transmission of a Stress-Related Neuroadaptation. Frontiers in Behavioral Neuroscience, 2020, 14, 564054.	2.0	8
89	Fast Cyclic Voltammetry in Brain Slices. , 1995, , 81-116.		6
90	Probing the Neurochemical Correlates of Motivation and Decision Making. ACS Chemical Neuroscience, 2015, 6, 11-13.	3.5	6

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91	Repetitive Blast Exposure Increases Appetitive Motivation and Behavioral Inflexibility in Male Mice. Frontiers in Behavioral Neuroscience, 2021, 15, 792648.	2.0	6
92	The Influence of Dopamine in Generating Action from Motivation. , 2011, , 163-187.		4
93	Neuroeconomics. Frontiers in Behavioral Neuroscience, 2012, 6, 15.	2.0	3
94	Voltammogram â€œLandscapesâ€•Aid Detection and Identification of In Vivo Electrochemical Signals. Electroanalysis, 1999, 11, 301-307.	2.9	2
95	Phasic Dopaminergic Signaling: Implications for Parkinsonâ€™s Disease. , 2009, , 1-18.		2
96	The Influence of Stress on Decision-Making: Effects of CRF and Dopamine Antagonism in the Nucleus Accumbens. Frontiers in Psychiatry, 2021, 12, 814218.	2.6	1
97	Making risk-takers settle. Nature, 2016, 531, 588-589.	27.8	0