Peter Shizgal

List of Publications by Year
in descending order

101 papers	4,772 citations	147801 31 h-index	98798 67 g-index
104 all docs	104 docs citations	104 times ranked	2811 citing authors

#	Article	IF	Citations
1	The trade-off between pulse duration and power in optical excitation of midbrain dopamine neurons approximates Blochâ€™s law. Behavioural Brain Research, 2022, 419, 113702.	2.2	7
2	The Convergence Model of Brain Reward Circuitry: Implications for Relief of Treatment-Resistant Depression by Deep-Brain Stimulation of the Medial Forebrain Bundle. Frontiers in Behavioral Neuroscience, 2022, 16, 851067.	2.0	4
3	Dopamine neurons do not constitute an obligatory stage in the final common path for the evaluation and pursuit of brain stimulation reward. PLoS ONE, 2020, 15, e0226722.	2.5	23
4	Title is missing!. , 2020, 15, e0226722.		0
5	Title is missing!. , 2020, 15, e0226722.		0
6	Title is missing!. , 2020, 15, e0226722.		0
7	Title is missing!. , 2020, 15, e0226722.		0
8	The priming effect of food persists following blockade of dopamine receptors. European Journal of Neuroscience, 2019, 50, 3416-3427.	2.6	3
9	Learning to use past evidence in a sophisticated world model. PLoS Computational Biology, 2019, 15, e1007093.	3.2	4
10	17Î²-estradiol locally increases phasic dopamine release in the dorsal striatum. Neuroscience Letters, 2018, 665, 29-32.	2.1	15
11	Valuation of opportunity costs by rats working for rewarding electrical brain stimulation. PLoS ONE, 2017, 12, e0182120.	2.5	13
12	Ventral Midbrain NMDA Receptor Blockade: From Enhanced Reward and Dopamine Inactivation. Frontiers in Behavioral Neuroscience, 2016, 10, 161.	2.0	5
13	The neural substrates for the rewarding and dopamine-releasing effects of medial forebrain bundle stimulation have partially discrepant frequency responses. Behavioural Brain Research, 2016, 297, 345-358.	2.2	13
14	dcc haploinsufficiency results in blunted sensitivity to cocaine enhancement of reward seeking. Behavioural Brain Research, 2016, 298, 27-31.	2.2	9
15	The Effects of Electrical and Optical Stimulation of Midbrain Dopaminergic Neurons on Rat 50-kHz Ultrasonic Vocalizations. Frontiers in Behavioral Neuroscience, 2015, 9, 331.	2.0	35
16	Brain Stimulation Reward. , 2015, , 841-846.		0
17	Psychophysical inference of frequency-following fidelity in the neural substrate for brain stimulation reward. Behavioural Brain Research, 2015, 292, 327-341.	2.2	12
18	Robust optical fiber patch-cords for in vivo optogenetic experiments in rats. MethodsX, 2015, 2, 263-271.	1.6	15

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19	The effect of probability discounting on reward seeking: a three-dimensional perspective. Frontiers in Behavioral Neuroscience, 2014, 8, 284.	2.0	10
20	Some Work and Some Play: Microscopic and Macroscopic Approaches to Labor and Leisure. PLoS Computational Biology, 2014, 10, e1003894.	3.2	10
21	Optimal indolence: a normative microscopic approach to work and leisure. Journal of the Royal Society Interface, 2014, 11, 20130969.	3.4	16
22	A new view of the effect of dopamine receptor antagonism on operant performance for rewarding brain stimulation in the rat. Psychopharmacology, 2014, 231, 1351-1364.	3.1	23
23	Intracranial Self-Stimulation. , 2014, , 1-9.		0
24	Validation and extension of the reward-mountain model. Frontiers in Behavioral Neuroscience, 2013, 7, 125.	2.0	20
25	Role of Dopamine Tone in the Pursuit of Brain Stimulation Reward. Journal of Neuroscience, 2012, 32, 11032-11041.	3.6	47
26	Scarce Means with Alternative Uses: Robbinsâ€™ Definition of Economics and Its Extension to the Behavioral and Neurobiological Study of Animal Decision Making. Frontiers in Neuroscience, 2012, 6, 20.	2.8	12
27	Cannabinoid Receptor Blockade Reduces the Opportunity Cost at Which Rats Maintain Operant Performance for Rewarding Brain Stimulation. Journal of Neuroscience, 2011, 31, 5426-5435.	3.6	30
28	At What Stage of Neural Processing Does Cocaine Act to Boost Pursuit of Rewards?. PLoS ONE, 2010, 5, e15081.	2.5	55
29	Dynamic changes in dopamine tone during self-stimulation of the ventral tegmental area in rats. Behavioural Brain Research, 2009, 198, 91-97.	2.2	30
30	Rattus Psychologicus: Construction of preferences by self-stimulating rats. Behavioural Brain Research, 2009, 202, 77-91.	2.2	28
31	Potentiation of intracranial self-stimulation during prolonged subcutaneous infusion of cocaine. Journal of Neuroscience Methods, 2008, 175, 79-87.	2.5	8
32	Dopamine tone increases similarly during predictable and unpredictable administration of rewarding brain stimulation at short inter-train intervals. Behavioural Brain Research, 2008, 188, 227-232.	2.2	10
33	The reinforcement mountain: Allocation of behavior as a function of the rate and intensity of rewarding brain stimulation.. Behavioral Neuroscience, 2008, 122, 1126-1138.	1.2	45
34	Predictable and unpredictable rewards produce similar changes in dopamine tone.. Behavioral Neuroscience, 2007, 121, 887-895.	1.2	16
35	THE EFFECTS OF REINFORCER MAGNITUDE ON TIMING IN RATS. Journal of the Experimental Analysis of Behavior, 2007, 87, 201-218.	1.1	52
36	Potentiation of brain stimulation reward by weight loss: Evidence for functional heterogeneity in brain reward circuitry. Behavioural Brain Research, 2006, 174, 56-63.	2.2	18

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37	Prolonged rewarding stimulation of the rat medial forebrain bundle: Neurochemical and behavioral consequences.. Behavioral Neuroscience, 2006, 120, 888-904.	1.2	97
38	Employing labor-supply theory to measure the reward value of electrical brain stimulation. Games and Economic Behavior, 2005, 52, 283-304.	0.8	19
39	Food restriction and leptin impact brain reward circuitry in lean and obese Zucker rats. Behavioural Brain Research, 2004, 155, 319-329.	2.2	37
40	NEUROSCIENCE: Gambling on Dopamine. Science, 2003, 299, 1856-1858.	12.6	40
41	Growth of brain stimulation reward as a function of duration and stimulation strength.. Behavioral Neuroscience, 2003, 117, 978-994.	1.2	24
42	Interaction of CRH and energy balance in the modulation of brain stimulation reward.. Behavioral Neuroscience, 2002, 116, 651-659.	1.2	16
43	Does neuropeptide Y contribute to the modulation of brain stimulation reward by chronic food restriction?. Behavioural Brain Research, 2002, 134, 157-164.	2.2	13
44	Interaction of CRH and energy balance in the modulation of brain stimulation reward. Behavioral Neuroscience, 2002, 116, 651-9.	1.2	4
45	Operant tempo varies with reinforcement rate: implications for measurement of reward efficacy. Behavioural Processes, 2001, 56, 85-101.	1.1	17
46	Functional Imaging of Neural Responses to Expectancy and Experience of Monetary Gains and Losses. Neuron, 2001, 30, 619-639.	8.1	1,279
47	Fos expression following self-stimulation of the medial prefrontal cortex. Behavioural Brain Research, 2000, 107, 123-132.	2.2	33
48	Modulation of Brain Reward Circuitry by Leptin. Science, 2000, 287, 125-128.	12.6	374
49	Early onset of demyelination after N-methyl-?-aspartate lesions of the lateral hypothalamus. Behavioural Brain Research, 1999, 104, 89-93.	2.2	4
50	Effects of NMDA Lesions of the Medial Basal Forebrain on LH and VTA Self-Stimulation. Physiology and Behavior, 1998, 65, 805-810.	2.1	6
51	Neural basis of utility estimation. Current Opinion in Neurobiology, 1997, 7, 198-208.	4.2	160
52	Fos-like immunoreactivity in the caudal diencephalon and brainstem following lateral hypothalamic self-stimulation. Behavioural Brain Research, 1997, 88, 275-279.	2.2	39
53	Fos-like immunoreactivity in forebrain regions following self-stimulation of the lateral hypothalamus and the ventral tegmental area. Behavioural Brain Research, 1997, 87, 239-251.	2.2	39
54	Attenuation of medial forebrain bundle reward by anterior lateral hypothalamic lesions. Behavioural Brain Research, 1996, 75, 33-47.	2.2	24

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55	Physiological measures of conduction velocity and refractory period for putative reward-relevant MFB axons arising in the rostral MFB. Physiology and Behavior, 1996, 59, 427-437.	2.1	28
56	Effects of excitotoxic lesions of the basal forebrain on MFB self-stimulation. Physiology and Behavior, 1996, 59, 795-806.	2.1	55
57	Behavioral measures of conduction velocity and refractory period for reward-relevant axons in the anterior LH and VTA. Physiology and Behavior, 1996, 59, 643-652.	2.1	28
58	The Janus faces of addiction. Behavioral and Brain Sciences, 1996, 19, 595-596.	0.7	0
59	Increased ipsilateral expression of Fos following lateral hypothalamic self-stimulation. Brain Research, 1996, 720, 148-154.	2.2	39
60	On the Neural Computation of Utility. Current Directions in Psychological Science, 1996, 5, 37-43.	5.3	158
61	Administration of ovarian steroid hormones does not change the reward effectiveness of lateral hypothalamic stimulation in ovariectomized rats. Cognitive, Affective and Behavioral Neuroscience, 1996, 24, 202-210.	1.3	1
62	Self-stimulation of the MFB following parabrachial lesions. Physiology and Behavior, 1995, 58, 559-566.	2.1	12
63	Thermogenesis in brown adipose tissue is activated by electrical stimulation of the rat dorsal raphe nucleus. Brain Research, 1994, 650, 149-152.	2.2	17
64	Evidence implicating both slow- and fast-conducting fibers in the rewarding effect of medial forebrain bundle stimulation. Behavioural Brain Research, 1994, 63, 47-60.	2.2	26
65	Competition and summation between rewarding effects of sucrose and lateral hypothalamic stimulation in the rat.. Behavioral Neuroscience, 1994, 108, 537-548.	1.2	59
66	Effects of sodium depletion on competition and summation between rewarding effects of salt and lateral hypothalamic stimulation in the rat.. Behavioral Neuroscience, 1994, 108, 549-558.	1.2	42
67	Differential effects of postingestive feedback on the reward value of sucrose and lateral hypothalamic stimulation in rats.. Behavioral Neuroscience, 1994, 108, 559-572.	1.2	18
68	Mapping the substrate for brain stimulation reward by means of current-number trade-off functions.. Behavioral Neuroscience, 1993, 107, 506-524.	1.2	14
69	Effects of varying reinforcement schedule, reward current, and pretrial priming stimulation on discrete-trial performance for brain stimulation reward. Cognitive, Affective and Behavioral Neuroscience, 1993, 21, 37-42.	1.3	3
70	Rewarding effectiveness of caudal MFB stimulation is unaltered following DMH lesions. Physiology and Behavior, 1992, 52, 211-218.	2.1	12
71	Medial forebrain bundle units in the rat: dependence of refractory period estimates on pulse duration. Behavioural Brain Research, 1991, 42, 151-160.	2.2	13
72	Anterolateral lesions of the medial forebrain bundle increase the frequency threshold for self-stimulation of the lateral hypothalamus and ventral tegmental area in the rat. Cognitive, Affective and Behavioral Neuroscience, 1991, 19, 135-146.	1.3	21

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73	Failure of amygdaloid lesions to increase the threshold for self-stimulation of the lateral hypothalamus and ventral tegmental area. Behavioural Brain Research, 1990, 40, 159-168.	2.2	21
74	Compound action potentials recorded in the ventral tegmental area, substantia nigra, and periaqueductal gray following rewarding stimulation of the lateral hypothalamus in the rat. Cognitive, Affective and Behavioral Neuroscience, 1990, 18, 205-214.	1.3	7
75	Improved artifact rejection and isolation of compound action potentials by means of digital subtraction. Journal of Neuroscience Methods, 1989, 30, 219-229.	2.5	5
76	Toward a cellular analysis of intracranial self-stimulation: Contributions of collision studies. Neuroscience and Biobehavioral Reviews, 1989, 13, 81-90.	6.1	31
77	Glutamate injection into the suprachiasmatic nucleus stimulates brown fat thermogenesis in the rat. Brain Research, 1989, 498, 140-144.	2.2	52
78	Forebrain neurons driven by rewarding stimulation of the medial forebrain bundle in the rat: comparison of psychophysical and electrophysiological estimates of refractory periods. Brain Research, 1989, 499, 234-248.	2.2	44
79	Electrophysiological characteristics of neurons in forebrain regions implicated in self-stimulation of the medial forebrain bundle in the rat. Brain Research, 1986, 364, 338-349.	2.2	47
80	Evidence implicating descending fibers in self-stimulation of the medial forebrain bundle. Journal of Neuroscience, 1986, 6, 919-929.	3.6	166
81	The substrates for self-stimulation of the lateral hypothalamus and medial prefrontal cortex: A comparison of strength-duration characteristics. Physiology and Behavior, 1985, 34, 943-949.	2.1	15
82	Spatio-temporal integration in the substrate for self-stimulation of the prefrontal cortex. Physiology and Behavior, 1985, 35, 303-306.	2.1	9
83	Self-stimulation of the lateral hypothalamus and ventrolateral tegmentum: Excitability characteristics of the directly stimulated substrates. Physiology and Behavior, 1985, 35, 711-723.	2.1	16
84	Lithium and ion chelators mimicked morphine in the production of explosive motor behavior. Behavioral and Neural Biology, 1982, 35, 408-416.	2.2	1
85	Behaviorally derived measures of conduction velocity in the substrate for rewarding medial forebrain bundle stimulation. Brain Research, 1982, 237, 107-119.	2.2	121
86	Absolute and relative refractory periods of the substrates for lateral hypothalamic and ventral midbrain self-stimulation. Physiology and Behavior, 1982, 28, 125-132.	2.1	37
87	The substrates for lateral hypothalamic and medial pre-frontal cortex self-stimulation have different refractory periods and show poor spatial summation. Physiology and Behavior, 1982, 28, 133-138.	2.1	61
88	Refractory periods and anatomical linkage of the substrates for lateral hypothalamic and periaqueductal gray self-stimulationâ˜†. Physiology and Behavior, 1981, 27, 95-104.	2.1	55
89	A portrait of the substrate for self-stimulation.. Psychological Review, 1981, 88, 228-273.	3.8	340
90	A within-subject comparison of the effects of morphine on lateral hypothalamic and central gray self-stimulation. Pharmacology Biochemistry and Behavior, 1981, 15, 37-41.	2.9	11

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91	Behavioral methods for inferring anatomical linkage between rewarding brain stimulation sites.. Journal of Comparative and Physiological Psychology, 1980, 94, 227-237.	1.8	189
92	Heroin, but not levorphanol, produces explosive motor behavior in naloxone-treated rats. Psychopharmacology, 1980, 69, 313-314.	3.1	4
93	Parametric analysis of ON- and OFF- responding for hypothalamic stimulationâ˜†. Physiology and Behavior, 1980, 25, 699-706.	2.1	19
94	Dissociation of the substrates for medial forebrain bundle self-stimulation and stimulation-escape using a two-electrode stimulation techniqueâ˜†. Physiology and Behavior, 1980, 25, 707-711.	2.1	33
95	A comparison between the effects of morphine on the rewarding and aversive properties of lateral hypothalamic and central gray stimulation. Physiological Psychology, 1980, 8, 372-378.	0.8	10
96	Dual Mechanism Mediating Opiate Effects?. Science, 1979, 205, 424-425.	12.6	5
97	Naloxone's antagonism of rigidity but not explosive motor behavior: Possible evidence for two types of mechanisms underlying the actions of opiates and opioids. Behavioral Biology, 1978, 24, 24-31.	2.2	19
98	Explosive motor behavior, rigidity and periaqueductal gray lesions. Neuropharmacology, 1978, 17, 205-209.	4.1	24
99	Electrical stimulation of the rat diencephalon: Differential effects of interrupted stimulation on on- and off-responding. Brain Research, 1977, 129, 319-333.	2.2	47
100	Differential motor effects of intraventricular infusion of morphine and etonitazene. Pharmacology Biochemistry and Behavior, 1977, 6, 17-20.	2.9	12
101	Intake of diazepam and hashish by alcohol preferring rats deprived of alcohol. Physiology and Behavior, 1973, 10, 523-527.	2.1	12