

Peter Shizgal

List of Publications by Year in descending order

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101
papers

4,772
citations

147566

31
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98622

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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 Bloch's law. Behavioural Brain Research, 2022, 419, 113702.	1.2	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.	1.0	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.	1.1	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.	1.2	3
9	Learning to use past evidence in a sophisticated world model. PLoS Computational Biology, 2019, 15, e1007093.	1.5	4
10	17 β -estradiol locally increases phasic dopamine release in the dorsal striatum. Neuroscience Letters, 2018, 665, 29-32.	1.0	15
11	Valuation of opportunity costs by rats working for rewarding electrical brain stimulation. PLoS ONE, 2017, 12, e0182120.	1.1	13
12	Ventral Midbrain NMDA Receptor Blockade: From Enhanced Reward and Dopamine Inactivation. Frontiers in Behavioral Neuroscience, 2016, 10, 161.	1.0	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.	1.2	13
14	dcc haploinsufficiency results in blunted sensitivity to cocaine enhancement of reward seeking. Behavioural Brain Research, 2016, 298, 27-31.	1.2	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.	1.0	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.	1.2	12
18	Robust optical fiber patch-cords for in vivo optogenetic experiments in rats. MethodsX, 2015, 2, 263-271.	0.7	15

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19	The effect of probability discounting on reward seeking: a three-dimensional perspective. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 284.	1.0	10
20	Some Work and Some Play: Microscopic and Macroscopic Approaches to Labor and Leisure. <i>PLoS Computational Biology</i> , 2014, 10, e1003894.	1.5	10
21	Optimal indolence: a normative microscopic approach to work and leisure. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130969.	1.5	16
22	A new view of the effect of dopamine receptor antagonism on operant performance for rewarding brain stimulation in the rat. <i>Psychopharmacology</i> , 2014, 231, 1351-1364.	1.5	23
23	Intracranial Self-Stimulation. , 2014, , 1-9.		0
24	Validation and extension of the reward-mountain model. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 125.	1.0	20
25	Role of Dopamine Tone in the Pursuit of Brain Stimulation Reward. <i>Journal of Neuroscience</i> , 2012, 32, 11032-11041.	1.7	47
26	Scarce Means with Alternative Uses: Robbins's™ Definition of Economics and Its Extension to the Behavioral and Neurobiological Study of Animal Decision Making. <i>Frontiers in Neuroscience</i> , 2012, 6, 20.	1.4	12
27	Cannabinoid Receptor Blockade Reduces the Opportunity Cost at Which Rats Maintain Operant Performance for Rewarding Brain Stimulation. <i>Journal of Neuroscience</i> , 2011, 31, 5426-5435.	1.7	30
28	At What Stage of Neural Processing Does Cocaine Act to Boost Pursuit of Rewards?. <i>PLoS ONE</i> , 2010, 5, e15081.	1.1	55
29	Dynamic changes in dopamine tone during self-stimulation of the ventral tegmental area in rats. <i>Behavioural Brain Research</i> , 2009, 198, 91-97.	1.2	30
30	<i>Rattus Psychologicus</i> : Construction of preferences by self-stimulating rats. <i>Behavioural Brain Research</i> , 2009, 202, 77-91.	1.2	28
31	Potentiation of intracranial self-stimulation during prolonged subcutaneous infusion of cocaine. <i>Journal of Neuroscience Methods</i> , 2008, 175, 79-87.	1.3	8
32	Dopamine tone increases similarly during predictable and unpredictable administration of rewarding brain stimulation at short inter-train intervals. <i>Behavioural Brain Research</i> , 2008, 188, 227-232.	1.2	10
33	The reinforcement mountain: Allocation of behavior as a function of the rate and intensity of rewarding brain stimulation.. <i>Behavioral Neuroscience</i> , 2008, 122, 1126-1138.	0.6	45
34	Predictable and unpredictable rewards produce similar changes in dopamine tone.. <i>Behavioral Neuroscience</i> , 2007, 121, 887-895.	0.6	16
35	THE EFFECTS OF REINFORCER MAGNITUDE ON TIMING IN RATS. <i>Journal of the Experimental Analysis of Behavior</i> , 2007, 87, 201-218.	0.8	52
36	Potentiation of brain stimulation reward by weight loss: Evidence for functional heterogeneity in brain reward circuitry. <i>Behavioural Brain Research</i> , 2006, 174, 56-63.	1.2	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.	0.6	97
38	Employing labor-supply theory to measure the reward value of electrical brain stimulation. Games and Economic Behavior, 2005, 52, 283-304.	0.4	19
39	Food restriction and leptin impact brain reward circuitry in lean and obese Zucker rats. Behavioural Brain Research, 2004, 155, 319-329.	1.2	37
40	NEUROSCIENCE: Gambling on Dopamine. Science, 2003, 299, 1856-1858.	6.0	40
41	Growth of brain stimulation reward as a function of duration and stimulation strength.. Behavioral Neuroscience, 2003, 117, 978-994.	0.6	24
42	Interaction of CRH and energy balance in the modulation of brain stimulation reward.. Behavioral Neuroscience, 2002, 116, 651-659.	0.6	16
43	Does neuropeptide Y contribute to the modulation of brain stimulation reward by chronic food restriction?. Behavioural Brain Research, 2002, 134, 157-164.	1.2	13
44	Interaction of CRH and energy balance in the modulation of brain stimulation reward. Behavioral Neuroscience, 2002, 116, 651-9.	0.6	4
45	Operant tempo varies with reinforcement rate: implications for measurement of reward efficacy. Behavioural Processes, 2001, 56, 85-101.	0.5	17
46	Functional Imaging of Neural Responses to Expectancy and Experience of Monetary Gains and Losses. Neuron, 2001, 30, 619-639.	3.8	1,279
47	Fos expression following self-stimulation of the medial prefrontal cortex. Behavioural Brain Research, 2000, 107, 123-132.	1.2	33
48	Modulation of Brain Reward Circuitry by Leptin. Science, 2000, 287, 125-128.	6.0	374
49	Early onset of demyelination after N-methyl-D-aspartate lesions of the lateral hypothalamus. Behavioural Brain Research, 1999, 104, 89-93.	1.2	4
50	Effects of NMDA Lesions of the Medial Basal Forebrain on LH and VTA Self-Stimulation. Physiology and Behavior, 1998, 65, 805-810.	1.0	6
51	Neural basis of utility estimation. Current Opinion in Neurobiology, 1997, 7, 198-208.	2.0	160
52	Fos-like immunoreactivity in the caudal diencephalon and brainstem following lateral hypothalamic self-stimulation. Behavioural Brain Research, 1997, 88, 275-279.	1.2	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.	1.2	39
54	Attenuation of medial forebrain bundle reward by anterior lateral hypothalamic lesions. Behavioural Brain Research, 1996, 75, 33-47.	1.2	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. <i>Physiology and Behavior</i> , 1996, 59, 427-437.	1.0	28
56	Effects of excitotoxic lesions of the basal forebrain on MFB self-stimulation. <i>Physiology and Behavior</i> , 1996, 59, 795-806.	1.0	55
57	Behavioral measures of conduction velocity and refractory period for reward-relevant axons in the anterior LH and VTA. <i>Physiology and Behavior</i> , 1996, 59, 643-652.	1.0	28
58	The Janus faces of addiction. <i>Behavioral and Brain Sciences</i> , 1996, 19, 595-596.	0.4	0
59	Increased ipsilateral expression of Fos following lateral hypothalamic self-stimulation. <i>Brain Research</i> , 1996, 720, 148-154.	1.1	39
60	On the Neural Computation of Utility. <i>Current Directions in Psychological Science</i> , 1996, 5, 37-43.	2.8	158
61	Administration of ovarian steroid hormones does not change the reward effectiveness of lateral hypothalamic stimulation in ovariectomized rats. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1996, 24, 202-210.	1.2	1
62	Self-stimulation of the MFB following parabrachial lesions. <i>Physiology and Behavior</i> , 1995, 58, 559-566.	1.0	12
63	Thermogenesis in brown adipose tissue is activated by electrical stimulation of the rat dorsal raphe nucleus. <i>Brain Research</i> , 1994, 650, 149-152.	1.1	17
64	Evidence implicating both slow- and fast-conducting fibers in the rewarding effect of medial forebrain bundle stimulation. <i>Behavioural Brain Research</i> , 1994, 63, 47-60.	1.2	26
65	Competition and summation between rewarding effects of sucrose and lateral hypothalamic stimulation in the rat.. <i>Behavioral Neuroscience</i> , 1994, 108, 537-548.	0.6	59
66	Effects of sodium depletion on competition and summation between rewarding effects of salt and lateral hypothalamic stimulation in the rat.. <i>Behavioral Neuroscience</i> , 1994, 108, 549-558.	0.6	42
67	Differential effects of postingestive feedback on the reward value of sucrose and lateral hypothalamic stimulation in rats.. <i>Behavioral Neuroscience</i> , 1994, 108, 559-572.	0.6	18
68	Mapping the substrate for brain stimulation reward by means of current-number trade-off functions.. <i>Behavioral Neuroscience</i> , 1993, 107, 506-524.	0.6	14
69	Effects of varying reinforcement schedule, reward current, and pretrial priming stimulation on discrete-trial performance for brain stimulation reward. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1993, 21, 37-42.	1.2	3
70	Rewarding effectiveness of caudal MFB stimulation is unaltered following DMH lesions. <i>Physiology and Behavior</i> , 1992, 52, 211-218.	1.0	12
71	Medial forebrain bundle units in the rat: dependence of refractory period estimates on pulse duration. <i>Behavioural Brain Research</i> , 1991, 42, 151-160.	1.2	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. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1991, 19, 135-146.	1.2	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. <i>Behavioural Brain Research</i> , 1990, 40, 159-168.	1.2	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. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1990, 18, 205-214.	1.2	7
75	Improved artifact rejection and isolation of compound action potentials by means of digital subtraction. <i>Journal of Neuroscience Methods</i> , 1989, 30, 219-229.	1.3	5
76	Toward a cellular analysis of intracranial self-stimulation: Contributions of collision studies. <i>Neuroscience and Biobehavioral Reviews</i> , 1989, 13, 81-90.	2.9	31
77	Glutamate injection into the suprachiasmatic nucleus stimulates brown fat thermogenesis in the rat. <i>Brain Research</i> , 1989, 498, 140-144.	1.1	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. <i>Brain Research</i> , 1989, 499, 234-248.	1.1	44
79	Electrophysiological characteristics of neurons in forebrain regions implicated in self-stimulation of the medial forebrain bundle in the rat. <i>Brain Research</i> , 1986, 364, 338-349.	1.1	47
80	Evidence implicating descending fibers in self-stimulation of the medial forebrain bundle. <i>Journal of Neuroscience</i> , 1986, 6, 919-929.	1.7	166
81	The substrates for self-stimulation of the lateral hypothalamus and medial prefrontal cortex: A comparison of strength-duration characteristics. <i>Physiology and Behavior</i> , 1985, 34, 943-949.	1.0	15
82	Spatio-temporal integration in the substrate for self-stimulation of the prefrontal cortex. <i>Physiology and Behavior</i> , 1985, 35, 303-306.	1.0	9
83	Self-stimulation of the lateral hypothalamus and ventrolateral tegmentum: Excitability characteristics of the directly stimulated substrates. <i>Physiology and Behavior</i> , 1985, 35, 711-723.	1.0	16
84	Lithium and ion chelators mimicked morphine in the production of explosive motor behavior. <i>Behavioral and Neural Biology</i> , 1982, 35, 408-416.	2.3	1
85	Behaviorally derived measures of conduction velocity in the substrate for rewarding medial forebrain bundle stimulation. <i>Brain Research</i> , 1982, 237, 107-119.	1.1	121
86	Absolute and relative refractory periods of the substrates for lateral hypothalamic and ventral midbrain self-stimulation. <i>Physiology and Behavior</i> , 1982, 28, 125-132.	1.0	37
87	The substrates for lateral hypothalamic and medial pre-frontal cortex self-stimulation have different refractory periods and show poor spatial summation. <i>Physiology and Behavior</i> , 1982, 28, 133-138.	1.0	61
88	Refractory periods and anatomical linkage of the substrates for lateral hypothalamic and periaqueductal gray self-stimulation. <i>Physiology and Behavior</i> , 1981, 27, 95-104.	1.0	55
89	A portrait of the substrate for self-stimulation. <i>Psychological Review</i> , 1981, 88, 228-273.	2.7	340
90	A within-subject comparison of the effects of morphine on lateral hypothalamic and central gray self-stimulation. <i>Pharmacology Biochemistry and Behavior</i> , 1981, 15, 37-41.	1.3	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.	1.5	4
93	Parametric analysis of ON- and OFF- responding for hypothalamic stimulation. Physiology and Behavior, 1980, 25, 699-706.	1.0	19
94	Dissociation of the substrates for medial forebrain bundle self-stimulation and stimulation-escape using a two-electrode stimulation technique. Physiology and Behavior, 1980, 25, 707-711.	1.0	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.	6.0	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.	2.3	19
98	Explosive motor behavior, rigidity and periaqueductal gray lesions. Neuropharmacology, 1978, 17, 205-209.	2.0	24
99	Electrical stimulation of the rat diencephalon: Differential effects of interrupted stimulation on on- and off-responding. Brain Research, 1977, 129, 319-333.	1.1	47
100	Differential motor effects of intraventricular infusion of morphine and etonitazene. Pharmacology Biochemistry and Behavior, 1977, 6, 17-20.	1.3	12
101	Intake of diazepam and hashish by alcohol preferring rats deprived of alcohol. Physiology and Behavior, 1973, 10, 523-527.	1.0	12