

# Daphna Joel

## List of Publications by Year in descending order

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87  
papers

7,773  
citations

76196

40  
h-index

53109

85  
g-index

90  
all docs

90  
docs citations

90  
times ranked

6919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tonic dopamine: opportunity costs and the control of response vigor. <i>Psychopharmacology</i> , 2007, 191, 507-520.	1.5	969
2	The future of sex and gender in psychology: Five challenges to the gender binary.. <i>American Psychologist</i> , 2019, 74, 171-193.	3.8	523
3	The connections of the dopaminergic system with the striatum in rats and primates: an analysis with respect to the functional and compartmental organization of the striatum. <i>Neuroscience</i> , 2000, 96, 451-474.	1.1	517
4	Sex beyond the genitalia: The human brain mosaic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15468-15473.	3.3	493
5	The organization of the basal ganglia-thalamocortical circuits: Open interconnected rather than closed segregated. <i>Neuroscience</i> , 1994, 63, 363-379.	1.1	440
6	Actor-critic models of the basal ganglia: new anatomical and computational perspectives. <i>Neural Networks</i> , 2002, 15, 535-547.	3.3	395
7	Reinforcement Learning Signals in the Human Striatum Distinguish Learners from Nonlearners during Reward-Based Decision Making. <i>Journal of Neuroscience</i> , 2007, 27, 12860-12867.	1.7	344
8	A normative perspective on motivation. <i>Trends in Cognitive Sciences</i> , 2006, 10, 375-381.	4.0	268
9	The connections of the primate subthalamic nucleus: indirect pathways and the open-interconnected scheme of basal ganglia-thalamocortical circuitry. <i>Brain Research Reviews</i> , 1997, 23, 62-78.	9.1	237
10	The role of mesolimbic dopaminergic and retrohippocampal afferents to the nucleus accumbens in latent inhibition: implications for schizophrenia. <i>Behavioural Brain Research</i> , 1995, 71, 19-33.	1.2	164
11	Behavioral, Pharmacological, and Immunological Abnormalities after Streptococcal Exposure: A Novel Rat Model of Sydenham Chorea and Related Neuropsychiatric Disorders. <i>Neuropsychopharmacology</i> , 2012, 37, 2076-2087.	2.8	164
12	The orbital cortex in rats topographically projects to central parts of the caudate-putamen complex. <i>Neuroscience Letters</i> , 2008, 432, 40-45.	1.0	157
13	Current animal models of obsessive compulsive disorder: A critical review. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2006, 30, 374-388.	2.5	144
14	Open interconnected model of basal ganglia-thalamocortical circuitry and its relevance to the clinical syndrome of Huntington's disease. <i>Movement Disorders</i> , 2001, 16, 407-423.	2.2	142
15	Electrolytic lesions of the medial prefrontal cortex in rats disrupt performance on an analog of the Wisconsin Card Sorting Test, but do not disrupt latent inhibition: implications for animal models of schizophrenia. <i>Behavioural Brain Research</i> , 1997, 85, 187-201.	1.2	135
16	Animal models of obsessive-compulsive disorder: Exploring pharmacology and neural substrates. <i>Neuroscience and Biobehavioral Reviews</i> , 2012, 36, 47-63.	2.9	131
17	Male or Female? Brains are Intersex. <i>Frontiers in Integrative Neuroscience</i> , 2011, 5, 57.	1.0	124
18	Queering gender: studying gender identity in "non-normative" individuals. <i>Psychology and Sexuality</i> , 2014, 5, 291-321.	1.3	114

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19	Incorporating Sex As a Biological Variable in Neuropsychiatric Research: Where Are We Now and Where Should We Be?. <i>Neuropsychopharmacology</i> , 2017, 42, 379-385.	2.8	111
20	Beyond sex differences: new approaches for thinking about variation in brain structure and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150451.	1.8	105
21	Analysis of Human Brain Structure Reveals that the Brain "Types" Typical of Males Are Also Typical of Females, and Vice Versa. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 399.	1.0	97
22	Behavioral and neural effects of intra-striatal infusion of anti-streptococcal antibodies in rats. <i>Brain, Behavior, and Immunity</i> , 2014, 38, 249-262.	2.0	84
23	Excessive lever pressing following post-training signal attenuation in rats: A possible animal model of obsessive compulsive disorder?. <i>Behavioural Brain Research</i> , 2001, 123, 77-87.	1.2	80
24	High frequency stimulation and temporary inactivation of the subthalamic nucleus reduce quinpirole-induced compulsive checking behavior in rats. <i>Experimental Neurology</i> , 2008, 210, 217-228.	2.0	80
25	Selective impairment of prediction error signaling in human dorsolateral but not ventral striatum in Parkinson's disease patients: evidence from a model-based fMRI study. <i>NeuroImage</i> , 2010, 49, 772-781.	2.1	78
26	Selective Alleviation of Compulsive Lever-Pressing in Rats by D1, but not D2, Blockade: Possible Implications for the Involvement of D1 Receptors in Obsessive-Compulsive Disorder. <i>Neuropsychopharmacology</i> , 2003, 28, 77-85.	2.8	75
27	High-frequency stimulation of the nucleus accumbens core and shell reduces quinpirole-induced compulsive checking in rats. <i>European Journal of Neuroscience</i> , 2009, 29, 2401-2412.	1.2	75
28	High frequency stimulation and pharmacological inactivation of the subthalamic nucleus reduces "compulsive" lever-pressing in rats. <i>Experimental Neurology</i> , 2009, 215, 101-109.	2.0	72
29	Current animal models of obsessive compulsive disorder: an update. <i>Neuroscience</i> , 2012, 211, 83-106.	1.1	72
30	Effects of electrolytic lesions of the medial prefrontal cortex or its subfields on 4-arm baited, 8-arm radial maze, two-way active avoidance and conditioned fear tasks in the rat. <i>Brain Research</i> , 1997, 765, 37-50.	1.1	70
31	The signal attenuation rat model of obsessive-compulsive disorder: a review. <i>Psychopharmacology</i> , 2006, 186, 487-503.	1.5	68
32	Genetic-gonadal-genitals sex (3G-sex) and the misconception of brain and gender, or, why 3G-males and 3G-females have intersex brain and intersex gender. <i>Biology of Sex Differences</i> , 2012, 3, 27.	1.8	62
33	"Compulsive" lever pressing in rats is enhanced following lesions to the orbital cortex, but not to the basolateral nucleus of the amygdala or to the dorsal medial prefrontal cortex. <i>European Journal of Neuroscience</i> , 2005, 21, 2252-2262.	1.2	57
34	Impaired procedural learning in obsessive-compulsive disorder and Parkinson's disease, but not in major depressive disorder. <i>Behavioural Brain Research</i> , 2005, 157, 253-263.	1.2	56
35	Beyond the binary: Rethinking sex and the brain. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 122, 165-175.	2.9	56
36	Role of the orbital cortex and of the serotonergic system in a rat model of obsessive compulsive disorder. <i>Neuroscience</i> , 2005, 130, 25-36.	1.1	55

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37	The role of 5-HT <sub>2A</sub> and 5-HT <sub>2C</sub> receptors in the signal attenuation rat model of obsessive-compulsive disorder. <i>International Journal of Neuropsychopharmacology</i> , 2008, 11, 811-25.	1.0	55
38	The Role of the Striatum in Compulsive Behavior in Intact and Orbitofrontal-Cortex-Lesioned Rats: Possible Involvement of the Serotonergic System. <i>Neuropsychopharmacology</i> , 2010, 35, 1026-1039.	2.8	52
39	'Compulsive' lever-pressing in rats is attenuated by the serotonin re-uptake inhibitors paroxetine and fluvoxamine but not by the tricyclic antidepressant desipramine or the anxiolytic diazepam. <i>Behavioural Pharmacology</i> , 2004, 15, 241-52.	0.8	46
40	The role of the subthalamic nucleus in "compulsive"™ behavior in rats. <i>European Journal of Neuroscience</i> , 2008, 27, 1902-1911.	1.2	43
41	A comparison of drug effects in latent inhibition and the forced swim test differentiates between the typical antipsychotic haloperidol, the atypical antipsychotics clozapine and olanzapine, and the antidepressants imipramine and paroxetine. <i>Behavioural Pharmacology</i> , 2003, 14, 215-222.	0.8	41
42	Fimbria-fornix cut affects spontaneous activity, two-way avoidance and delayed non matching to sample, but not latent inhibition. <i>Behavioural Brain Research</i> , 1998, 96, 59-70.	1.2	36
43	The Complex Relationships between Sex and the Brain. <i>Neuroscientist</i> , 2020, 26, 156-169.	2.6	36
44	The role of NMDA receptors in the signal attenuation rat model of obsessive-compulsive disorder. <i>Psychopharmacology</i> , 2010, 210, 13-24.	1.5	35
45	Enhancement of excessive lever-pressing after post-training signal attenuation in rats by repeated administration of the D <sub>2</sub> -antagonist SCH 23390 or the D <sub>2</sub> , agonist quinpirole, but not the D <sub>2</sub> -agonist SKF 38393 or the D <sub>1</sub> , antagonist haloperidol. <i>Behavioral Neuroscience</i> , 2001, 115, 1291-1300.	0.6	34
46	Ovarian hormones modulate "compulsive"™ lever-pressing in female rats. <i>Hormones and Behavior</i> , 2009, 55, 356-365.	1.0	34
47	Electrolytic lesion of globus pallidus ameliorates the behavioral and neurodegenerative effects of quinolinic acid lesion of the striatum: a potential novel treatment in a rat model of Huntington's disease. <i>Brain Research</i> , 1998, 787, 143-148.	1.1	33
48	Amelioration of behavioral deficits in a rat model of Huntington's disease by an excitotoxic lesion to the globus pallidus. <i>Experimental Neurology</i> , 2004, 186, 46-58.	2.0	31
49	High but not low frequency stimulation of both the globus pallidus and the entopeduncular nucleus reduces "compulsive"™ lever-pressing in rats. <i>Behavioural Brain Research</i> , 2011, 216, 84-93.	1.2	31
50	Activity modulation of the globus pallidus and the nucleus entopeduncularis affects compulsive checking in rats. <i>Behavioural Brain Research</i> , 2011, 219, 149-158.	1.2	29
51	Reconceptualizing sex, brain and psychopathology: interaction, interaction, interaction. <i>British Journal of Pharmacology</i> , 2014, 171, 4620-4635.	2.7	29
52	The gender-binary cycle: the perpetual relations between a biological-essentialist view of gender, gender ideology, and gender-labelling and sorting. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200141.	1.8	27
53	The effects of temporary inactivation of the orbital cortex in the signal attenuation rat model of obsessive compulsive disorder. <i>Behavioral Neuroscience</i> , 2006, 120, 976-983.	0.6	25
54	Sex-Linked Behavior: Evolution, Stability, and Variability. <i>Trends in Cognitive Sciences</i> , 2017, 21, 666-673.	4.0	23

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55	Screening of antipsychotic drugs in animal models. <i>Drug Development Research</i> , 2000, 50, 235-249.	1.4	22
56	Enhancement of excessive lever-pressing after post-training signal attenuation in rats by repeated administration of the D1 antagonist SCH 23390 or the D2 agonist quinpirole, but not the D1 agonist SKF 38393 or the D2 antagonist haloperidol. <i>Behavioral Neuroscience</i> , 2001, 115, 1291-300.	0.6	20
57	Strain differences in "compulsive" lever-pressing. <i>Behavioural Brain Research</i> , 2007, 179, 141-151.	1.2	19
58	On the mis-presentation and misinterpretation of gender-related data: The case of Ingalhalikar's human connectome study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E637.	3.3	19
59	Acute Mania and Hemichorea. <i>Clinical Neuropharmacology</i> , 2001, 24, 300-303.	0.2	18
60	Self-Reported Gender Identity and Sexuality in an Online Sample of Cisgender, Transgender, and Gender-Diverse Individuals: An Exploratory Study. <i>Journal of Sex Research</i> , 2019, 56, 249-263.	1.6	18
61	Antibiotic Treatment Attenuates Behavioral and Neurochemical Changes Induced by Exposure of Rats to Group A Streptococcal Antigen. <i>PLoS ONE</i> , 2014, 9, e101257.	1.1	17
62	Reply to Del Giudice et al., Chekroud et al., and Rosenblatt: Do brains of females and males belong to two distinct populations?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1969-70.	3.3	17
63	Evolution of reinforcement learning in foraging bees: a simple explanation for risk averse behavior. <i>Neurocomputing</i> , 2002, 44-46, 951-956.	3.5	16
64	The role of the cholinergic system in the signal attenuation rat model of obsessive-compulsive disorder. <i>Psychopharmacology</i> , 2013, 230, 37-48.	1.5	15
65	VIII. Captured in terminology: Sex, sex categories, and sex differences. <i>Feminism and Psychology</i> , 2016, 26, 335-345.	1.2	15
66	An Exploration of the Relations Between Self-Reported Gender Identity and Sexual Orientation in an Online Sample of Cisgender Individuals. <i>Archives of Sexual Behavior</i> , 2018, 47, 2407-2426.	1.2	13
67	Assault-related self-blame and its association with PTSD in sexually assaulted women: an MRI inquiry. <i>Social Cognitive and Affective Neuroscience</i> , 2018, 13, 775-784.	1.5	11
68	Journal of neuroscience research policy on addressing sex as a biological variable: Comments, clarifications, and elaborations. <i>Journal of Neuroscience Research</i> , 2017, 95, 1357-1359.	1.3	10
69	Deficits induced by quinolinic acid lesion to the striatum in a position discrimination and reversal task are ameliorated by permanent and temporary lesion to the globus pallidus: A potential novel treatment in a rat model of Huntington's disease. <i>Movement Disorders</i> , 2003, 18, 1499-1507.	2.2	9
70	Beyond sex differences and a male-female continuum: Mosaic brains in a multidimensional space. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2020, 175, 13-24.	1.0	9
71	How hype and hyperbole distort the neuroscience of sex differences. <i>PLoS Biology</i> , 2021, 19, e3001253.	2.6	9
72	Animal Models of Obsessive-Compulsive Disorder: From Bench to Bedside via Endophenotypes and Biomarkers. , 2008, , 133-164.		8

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73	A mosaic of sex-related structural changes in the human brain following exposure to real-life stress. <i>Brain Structure and Function</i> , 2020, 225, 461-466.	1.2	8
74	Structural and functional MRI of altered brain development in a novel adolescent rat model of quinpirole-induced compulsive checking behavior. <i>European Neuropsychopharmacology</i> , 2020, 33, 58-70.	0.3	7
75	The risk of a wrong conclusion: On testosterone and gender differences in risk aversion and career choices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, E19; author reply E20.	3.3	5
76	Reply to Glezerman: Why differences between brains of females and brains of males do not "add up" to create two types of brains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1972.	3.3	5
77	Evolution of Reinforcement Learning in Uncertain Environments: Emergence of Risk-Aversion and Matching. <i>Lecture Notes in Computer Science</i> , 2001, , 252-261.	1.0	5
78	The limbic basal-ganglia-thalamocortical circuit and goal-directed behavior. <i>Behavioral and Brain Sciences</i> , 1999, 22, 525-526.	0.4	4
79	Deep brain stimulation in Huntington's disease: Globus pallidus externus or substantia nigra pars compacta. <i>Movement Disorders</i> , 2002, 17, 431-432.	2.2	4
80	Long-term functional consequences of quinolinic acid striatal lesions and their alteration following an addition of a globus pallidus lesion assessed using pharmacological magnetic resonance imaging. <i>Experimental Neurology</i> , 2005, 196, 244-253.	2.0	3
81	Macro- and microstructural gray matter alterations in sexually assaulted women. <i>Journal of Affective Disorders</i> , 2020, 262, 196-204.	2.0	3
82	Consciousness-Raising in a Gender Conflict Group. <i>International Journal of Group Psychotherapy</i> , 2014, 64, 48-69.	0.4	2
83	Memantine treatment does not affect compulsive behavior or frontostriatal connectivity in an adolescent rat model for quinpirole-induced compulsive checking behavior. <i>Psychopharmacology</i> , 2022, 239, 2457-2470.	1.5	2
84	Response to Nina K. Thomas and J. Scott Rutan: Is the Personal Political? And Who Benefits From Believing It Is Not?. <i>International Journal of Group Psychotherapy</i> , 2014, 64, 83-89.	0.4	1
85	Signal Attenuation as a Rat Model of Obsessive Compulsive Disorder. <i>Journal of Visualized Experiments</i> , 2015, , 52287.	0.2	1
86	Gender identity and sexuality in an online sample of intersex-identified individuals: a descriptive study. <i>Psychology and Sexuality</i> , 2021, 12, 248-260.	1.3	0
87	Uncovering and Challenging the Binary Framework. <i>Psychological Inquiry</i> , 2021, 32, 105-106.	0.4	0