

Izhar Bar-Gad

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,232
citations

159525

30
h-index

155592

55
g-index

65
all docs

65
docs citations

65
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	Endocannabinoids and Dopamine Balance Basal Ganglia Output. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 639082.	1.8	1
2	Dissociation of tic generation from tic expression during the sleep-wake cycle. <i>IScience</i> , 2021, 24, 102380.	1.9	5
3	Generating Acute and Chronic Experimental Models of Motor Tic Expression in Rats. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	3
4	Dynamic input-dependent encoding of individual basal ganglia neurons. <i>Scientific Reports</i> , 2020, 10, 5833.	1.6	0
5	Common neuronal mechanisms underlying tics and hyperactivity. <i>Cortex</i> , 2020, 127, 231-247.	1.1	12
6	Disinhibition of the Nucleus Accumbens Leads to Macro-Scale Hyperactivity Consisting of Micro-Scale Behavioral Segments Encoded by Striatal Activity. <i>Journal of Neuroscience</i> , 2019, 39, 5897-5909.	1.7	15
7	Loss of Balance between Striatal Feedforward Inhibition and Corticostriatal Excitation Leads to Tremor. <i>Journal of Neuroscience</i> , 2018, 38, 1699-1710.	1.7	10
8	Dopamine receptors in the rat entopeduncular nucleus. <i>Brain Structure and Function</i> , 2018, 223, 2673-2684.	1.2	13
9	Aripiprazole Selectively Reduces Motor Tics in a Young Animal Model for Tourette's Syndrome and Comorbid Attention Deficit and Hyperactivity Disorder. <i>Frontiers in Neurology</i> , 2018, 9, 59.	1.1	13
10	Filter-Based Phase Shifts Distort Neuronal Timing Information. <i>ENeuro</i> , 2018, 5, ENEURO.0261-17.2018.	0.9	13
11	Prolonged striatal disinhibition as a chronic animal model of tic disorders. <i>Journal of Neuroscience Methods</i> , 2017, 292, 20-29.	1.3	44
12	Tonic and phasic changes in anteromedial globus pallidus activity in Tourette syndrome. <i>Movement Disorders</i> , 2017, 32, 1091-1096.	2.2	8
13	Temporal dynamics of saccades explained by a self-paced process. <i>Scientific Reports</i> , 2017, 7, 886.	1.6	36
14	Dopaminergic Modulation of Synaptic Integration and Firing Patterns in the Rat Entopeduncular Nucleus. <i>Journal of Neuroscience</i> , 2017, 37, 7177-7187.	1.7	15
15	Filter based phase distortions in extracellular spikes. <i>PLoS ONE</i> , 2017, 12, e0174790.	1.1	10
16	An orchestra without a conductor: Saccadic visual exploration can be explained by a self-paced process. <i>Journal of Vision</i> , 2017, 17, 902.	0.1	0
17	Animal Models of Tourette Syndrome—From Proliferation to Standardization. <i>Frontiers in Neuroscience</i> , 2016, 10, 132.	1.4	17
18	Beta oscillations in the parkinsonian primate: Similar oscillations across different populations. <i>Neurobiology of Disease</i> , 2016, 93, 28-34.	2.1	5

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19	Pathophysiology of tic disorders. <i>Movement Disorders</i> , 2015, 30, 1171-1178.	2.2	79
20	Corticostriatal Divergent Function in Determining the Temporal and Spatial Properties of Motor Tics. <i>Journal of Neuroscience</i> , 2015, 35, 16340-16351.	1.7	43
21	Quantifying Spike Train Oscillations: Biases, Distortions and Solutions. <i>PLoS Computational Biology</i> , 2015, 11, e1004252.	1.5	11
22	Abnormal neuronal activity in Tourette syndrome and its modulation using deep brain stimulation. <i>Journal of Neurophysiology</i> , 2015, 114, 6-20.	0.9	20
23	Patch-clamp recordings of rat neurons from acute brain slices of the somatosensory cortex during magnetic stimulation. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 145.	1.8	55
24	Basal ganglia: physiological, behavioral, and computational studies. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 150.	1.2	9
25	Pharmacological animal models of Tourette syndrome. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 1101-1119.	2.9	65
26	Continuous Modulation of Action Potential Firing by a Unitary GABAergic Connection in the Globus Pallidus In Vitro. <i>Journal of Neuroscience</i> , 2013, 33, 12805-12809.	1.7	38
27	Beta oscillations in the cortico-basal ganglia loop during parkinsonism. <i>Experimental Neurology</i> , 2013, 245, 52-59.	2.0	162
28	Tic Disorders. <i>Neuroscientist</i> , 2013, 19, 101-108.	2.6	67
29	Motor tics evoked by striatal disinhibition in the rat. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 50.	1.2	94
30	Haloperidol-induced changes in neuronal activity in the striatum of the freely moving rat. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 110.	1.2	30
31	Changes in basal ganglia processing of cortical input following magnetic stimulation in Parkinsonism. <i>Neurobiology of Disease</i> , 2012, 48, 464-473.	2.1	5
32	Decoupling neuronal oscillations during subthalamic nucleus stimulation in the parkinsonian primate. <i>Neurobiology of Disease</i> , 2012, 45, 583-590.	2.1	63
33	Globus Pallidus External Segment Neuron Classification in Freely Moving Rats: A Comparison to Primates. <i>PLoS ONE</i> , 2012, 7, e45421.	1.1	46
34	Spatial and Temporal Properties of Tic-Related Neuronal Activity in the Cortico-Basal Ganglia Loop. <i>Journal of Neuroscience</i> , 2011, 31, 8713-8721.	1.7	55
35	Magnetic stimulation intensity modulates motor inhibition. <i>Neuroscience Letters</i> , 2011, 504, 93-97.	1.0	19
36	The Impact of Stimulation Induced Short-Term Synaptic Plasticity on Firing Patterns in the Globus Pallidus of the Rat. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 16.	1.2	12

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37	Dynamic Stereotypic Responses of Basal Ganglia Neurons to Subthalamic Nucleus High-Frequency Stimulation in the Parkinsonian Primate. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 21.	1.2	63
38	Loss of Specificity in Basal Ganglia Related Movement Disorders. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 38.	1.2	29
39	Mini-coil for magnetic stimulation in the behaving primate. <i>Journal of Neuroscience Methods</i> , 2011, 194, 242-251.	1.3	30
40	Mechanisms of Magnetic Stimulation of Central Nervous System Neurons. <i>PLoS Computational Biology</i> , 2011, 7, e1002022.	1.5	135
41	Dispersed Activity during Passive Movement in the Globus Pallidus of the 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine (MPTP)-Treated Primate. <i>PLoS ONE</i> , 2011, 6, e16293.	1.1	7
42	Revealing neuronal functional organization through the relation between multi-scale oscillatory extracellular signals. <i>Journal of Neuroscience Methods</i> , 2010, 186, 116-129.	1.3	54
43	Generalized framework for stimulus artifact removal. <i>Journal of Neuroscience Methods</i> , 2010, 191, 45-59.	1.3	68
44	Electrophysiological Characteristics of Globus Pallidus Neurons. <i>PLoS ONE</i> , 2010, 5, e12001.	1.1	46
45	Bicuculline-Induced Chorea Manifests in Focal Rather Than Globalized Abnormalities in the Activation of the External and Internal Globus Pallidus. <i>Journal of Neurophysiology</i> , 2010, 104, 3261-3275.	0.9	24
46	Rise of the appendage. <i>Frontiers in Neuroinformatics</i> , 2009, 3, 32.	1.3	0
47	Short-Term Depression of Synaptic Transmission during Stimulation in the Globus Pallidus of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Treated Primates. <i>Journal of Neuroscience</i> , 2009, 29, 7797-7802.	1.7	40
48	The neurophysiological correlates of motor tics following focal striatal disinhibition. <i>Brain</i> , 2009, 132, 2125-2138.	3.7	137
49	Stimulation Effect on Neuronal Activity in the Globus Pallidus of the Behaving Macaque. <i>Advances in Behavioral Biology</i> , 2009, , 73-83.	0.2	2
50	Subthalamic nucleus functional organization revealed by parkinsonian neuronal oscillations and synchrony. <i>Brain</i> , 2008, 131, 3395-3409.	3.7	182
51	Local Shuffling of Spike Trains Boosts the Accuracy of Spike Train Spectral Analysis. <i>Journal of Neurophysiology</i> , 2006, 95, 3245-3256.	0.9	76
52	Real-time refinement of subthalamic nucleus targeting using Bayesian decision-making on the root mean square measure. <i>Movement Disorders</i> , 2006, 21, 1425-1431.	2.2	86
53	Dopamine Replacement Therapy Does Not Restore the Full Spectrum of Normal Pallidal Activity in the 1-Methyl-4-Phenyl-1,2,3,6-Tetra-Hydropyridine Primate Model of Parkinsonism. <i>Journal of Neuroscience</i> , 2006, 26, 8101-8114.	1.7	104
54	Complex Locking Rather Than Complete Cessation of Neuronal Activity in the Globus Pallidus of a 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Treated Primate in Response to Pallidal Microstimulation. <i>Journal of Neuroscience</i> , 2004, 24, 7410-7419.	1.7	143

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55	Information processing, dimensionality reduction and reinforcement learning in the basal ganglia. <i>Progress in Neurobiology</i> , 2003, 71, 439-473.	2.8	347
56	Functional Correlations between Neighboring Neurons in the Primate Globus Pallidus Are Weak or Nonexistent. <i>Journal of Neuroscience</i> , 2003, 23, 4012-4016.	1.7	87
57	Dopamine Replacement Therapy Reverses Abnormal Synchronization of Pallidal Neurons in the 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine Primate Model of Parkinsonism. <i>Journal of Neuroscience</i> , 2002, 22, 7850-7855.	1.7	156
58	Synchronization of Pallidal Activity in The Mptp Primate Model of Parkinsonism is not Limited to Oscillatory Activity. <i>Advances in Behavioral Biology</i> , 2002, , 29-34.	0.2	1
59	The High Frequency Discharge of Pallidal Neurons Disrupts the Interpretation of Pallidal Correlation Functions. <i>Advances in Behavioral Biology</i> , 2002, , 35-42.	0.2	1
60	The neuronal refractory period causes a short-term peak in the autocorrelation function. <i>Journal of Neuroscience Methods</i> , 2001, 104, 155-163.	1.3	46
61	Failure in identification of overlapping spikes from multiple neuron activity causes artificial correlations. <i>Journal of Neuroscience Methods</i> , 2001, 107, 1-13.	1.3	88
62	Stepping out of the box: information processing in the neural networks of the basal ganglia. <i>Current Opinion in Neurobiology</i> , 2001, 11, 689-695.	2.0	176
63	Chapter 25 Behavior of Hindbrain Neurons During the Transition from Rest to Evoked Locomotion in a Newt. <i>Progress in Brain Research</i> , 1999, 123, 285-294.	0.9	11