

Gordon W Arbuthnott

List of Publications by Year in descending order

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74
papers

6,208
citations

153493

30
h-index

99504

67
g-index

82
all docs

82
docs citations

82
times ranked

5108
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-range monosynaptic inputs targeting apical and basal dendrites of primary motor cortex deep output neurons. <i>Cerebral Cortex</i> , 2022, 32, 3975-3989.	3.2	9
2	Striatal bilateral control of skilled forelimb movement. <i>Cell Reports</i> , 2021, 34, 108651.	6.3	19
3	An Introspective Approach: A Lifetime of Parkinson's Disease Research and Not Much to Show for It Yet?. <i>Cells</i> , 2021, 10, 513.	4.3	3
4	In Vivo&/em> Wireless Optogenetic Control of Skilled Motor Behavior. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
5	Prelimbic cortical targets of ventromedial thalamic projections include inhibitory interneurons and corticostriatal pyramidal neurons in the rat. <i>Brain Structure and Function</i> , 2020, 225, 2057-2076.	2.4	4
6	Cholinergic modulation of striatal microcircuits. <i>European Journal of Neuroscience</i> , 2019, 49, 604-622.	3.5	96
7	Synchronized activation of striatal direct and indirect pathways underlies the behavior in unilateral dopamine-depleted mice. <i>European Journal of Neuroscience</i> , 2019, 49, 1512-1528.	3.5	22
8	Thalamic afferents to prefrontal cortices from ventral motor nuclei in decision-making. <i>European Journal of Neuroscience</i> , 2019, 49, 646-657.	3.5	34
9	Sparse Recovery of Under-Sampled Fiber Bundle Images for In-Vivo Endoscopy. , 2019, , .		0
10	Fiber-bundle-basis sparse reconstruction for high resolution wide-field microendoscopy. <i>Biomedical Optics Express</i> , 2018, 9, 1843.	3.0	11
11	A Cortical Substrate for Parkinsonism: A Personal Journey. <i>International Journal of Clinical Research & Trials</i> , 2018, 3, .	1.6	0
12	Cerebellar sub-divisions differ in exercise-induced plasticity of noradrenergic axons and in their association with resilience to activity-based anorexia. <i>Brain Structure and Function</i> , 2017, 222, 317-339.	2.4	14
13	Are the Symptoms of Parkinsonism Cortical in Origin?. <i>Computational and Structural Biotechnology Journal</i> , 2017, 15, 21-25.	4.2	9
14	Refinement of learned skilled movement representation in motor cortex deep output layer. <i>Nature Communications</i> , 2017, 8, 15834.	13.2	55
15	Advances in Fibre Microendoscopy for Neuronal Imaging. <i>Optical Data Processing and Storage</i> , 2016, 2, .	3.3	10
16	Presynaptic D1 heteroreceptors and mGlu autoreceptors act at individual cortical release sites to modify glutamate release. <i>Brain Research</i> , 2016, 1639, 74-87.	2.3	11
17	The neostriatum: two entities, one structure?. <i>Brain Structure and Function</i> , 2016, 221, 1737-1749.	2.4	28
18	Fiber Bundle in-vivo Epifluorescence Microscopy with Image Reconstruction. , 2016, , .		0

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19	Basal gangliaâ€™thalamus and the â€œcrowning enigmaâ€. <i>Frontiers in Neural Circuits</i> , 2015, 9, 71.	3.0	18
20	Extrasynaptic glutamate NMDA receptors: Key players in striatal function. <i>Neuropharmacology</i> , 2015, 89, 54-63.	4.2	23
21	Rebuilding a realistic corticostriatal â€œsocial networkâ€ from dissociated cells. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 63.	2.7	6
22	Cell Assembly Signatures Defined by Short-Term Synaptic Plasticity in Cortical Networks. <i>International Journal of Neural Systems</i> , 2015, 25, 1550026.	6.0	32
23	Cortical Effects of Deep Brain Stimulation. <i>JAMA Neurology</i> , 2014, 71, 100.	9.3	59
24	Thalamostriatal synapsesâ€™another substrate for dopamine action?. <i>Progress in Brain Research</i> , 2014, 211, 1-11.	3.9	6
25	FRETing over dopamine: single cell cAMP and protein kinase A responses to 100 ms dopamine application. <i>Journal of Physiology</i> , 2013, 591, 3107-3107.	2.9	0
26	Therapeutic Deep Brain Stimulation in Parkinsonian Rats Directly Influences Motor Cortex. <i>Neuron</i> , 2012, 76, 1030-1041.	8.0	277
27	Development of dissociated cryopreserved rat cortical neurons in vitro. <i>Journal of Neuroscience Methods</i> , 2012, 205, 324-333.	2.6	14
28	The Corticostriatal System in Dissociated Cell Culture. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 52.	2.7	11
29	Power Fluctuations in Beta and Gamma Frequencies in Rat Globus Pallidus: Association with Specific Phases of Slow Oscillations and Differential Modulation by Dopamine D ₁ and D ₂ Receptors. <i>Journal of Neuroscience</i> , 2011, 31, 6098-6107.	3.8	37
30	Of Rats and Patients: Some Thoughts About Why Rats Turn in Circles and Parkinsonâ€™s Disease Patients Cannot Move Normally. <i>NeuroMethods</i> , 2011, , 317-323.	0.0	0
31	Striatal interneurons in dissociated cell culture. <i>Histochemistry and Cell Biology</i> , 2010, 134, 1-12.	1.7	12
32	Functional Anatomy: Dynamic States in Basal Ganglia Circuits. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 144.	1.7	17
33	Gating of Cortical Input to the Striatum. <i>Handbook of Behavioral Neuroscience</i> , 2010, , 341-351.	0.2	9
34	The rotational model and microdialysis: Significance for dopamine signalling, clinical studies, and beyond. <i>Progress in Neurobiology</i> , 2010, 90, 176-189.	5.8	37
35	Cortical Effects of Subthalamic Stimulation Correlate with Behavioral Recovery from Dopamine Antagonist Induced Akinesia. <i>Cerebral Cortex</i> , 2009, 19, 1055-1063.	3.2	95
36	Dealing with the devil in the detail â€œ some thoughts about the next model of the basal ganglia. <i>Parkinsonism and Related Disorders</i> , 2009, 15, S139-S142.	2.2	5

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37	Slowly Progressive Dopamine Cell Loss - A Model on which to Test Neuroprotective Strategies for Parkinson's Disease?. <i>Reviews in the Neurosciences</i> , 2009, 20, 85-94.	3.2	7
38	Neuromodulation and Neurodynamics of Striatal Inhibitory Networks: Implications for Parkinson's Disease. , 2009, , 1-11.		0
39	Microglial activation is not prevented by tacrolimus but dopamine neuron damage is reduced in a rat model of Parkinson's disease progression. <i>Brain Research</i> , 2008, 1216, 78-86.	2.3	12
40	Actions of Adenosine A _{2A} Receptors on Synaptic Connections of Spiny Projection Neurons in the Neostriatal Inhibitory Network. <i>Journal of Neurophysiology</i> , 2008, 99, 1884-1889.	1.9	22
41	Simulation of GABA function in the basal ganglia: computational models of GABAergic mechanisms in basal ganglia function. <i>Progress in Brain Research</i> , 2007, 160, 313-329.	3.9	52
42	Space, time and dopamine. <i>Trends in Neurosciences</i> , 2007, 30, 62-69.	8.8	279
43	Selective elimination of glutamatergic synapses on striatopallidal neurons in Parkinson disease models. <i>Nature Neuroscience</i> , 2006, 9, 251-259.	14.5	688
44	Neurone specific regulation of dendritic spines in vivo by post synaptic density 95 protein (PSD-95). <i>Brain Research</i> , 2006, 1090, 89-98.	2.3	68
45	Delayed synaptic degeneration in the CNS of Wlds mice after cortical lesion. <i>Brain</i> , 2006, 129, 1546-1556.	8.0	57
46	Activation of NOS Interneurons in Striatum after Excitotoxic Lesions of Rat Globus Pallidus. , 2005, , 485-491.		0
47	Functional Interactions within the Subthalamic Nucleus. <i>Advances in Behavioral Biology</i> , 2002, , 359-368.	0.0	4
48	Computational models of the basal ganglia. <i>Movement Disorders</i> , 2000, 15, 762-770.	4.3	59
49	Symposium on neurobiology of the basal ganglia. <i>Journal of Anatomy</i> , 2000, 196, 499-499.	1.7	0
50	Acute in vivo neurotoxicity of peptides from Maedi Visna virus transactivating protein Tat. <i>Brain Research</i> , 1999, 830, 285-291.	2.3	17
51	Inhibition of Neuronal Nitric Oxide Synthase by 7-Nitroindazole: Effects upon Local Cerebral Blood Flow and Glucose Use in the Rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995, 15, 766-773.	4.6	89
52	The Basic Domain of the Lentiviral Tat Protein Is Responsible for Damages in Mouse Brain: Involvement of Cytokines. <i>Virology</i> , 1994, 205, 519-529.	2.5	144
53	Some Consequences of Local Blockade of Nitric-Oxide Synthase in the Rat Neostriatum. <i>Advances in Behavioral Biology</i> , 1994, , 171-178.	0.0	5
54	Dendritic domains of medium spiny neurons in the primate striatum: Relationships to striosomal borders. <i>Journal of Comparative Neurology</i> , 1993, 337, 614-628.	2.0	44

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55	Astrocytes immunoreactive for glial fibrillary acidic protein (GFAP) are increased in the mediobasal hypothalamus in hypogonadal (hpg) mice. <i>Molecular and Cellular Neurosciences</i> , 1992, 3, 473-481.	2.2	5
56	Chapter 43 Identification of grafted neurons with fluorescent-labelled microbeads. <i>Progress in Brain Research</i> , 1990, 82, 385-390.	3.9	9
57	Effects of Selective Monoamine Oxidase Inhibitors on the In Vivo Release and Metabolism of Dopamine in the Rat Striatum. <i>Journal of Neurochemistry</i> , 1990, 55, 981-988.	4.0	137
58	In Vivo Mechanisms Underlying Dopamine Release from Rat Nigrostriatal Terminals: I. Studies Using Veratrine and Ouabain. <i>Journal of Neurochemistry</i> , 1990, 54, 1834-1843.	4.0	45
59	In Vivo Mechanisms Underlying Dopamine Release from Rat Nigrostriatal Terminals: II. Studies Using Potassium and Tyramine. <i>Journal of Neurochemistry</i> , 1990, 54, 1844-1851.	4.0	77
60	Glial fibrillary acidic protein (GFAP)-immunoreactive astrocytes are increased in the hypothalamus of androgen-insensitive testicular feminized (Tfm) mice. <i>Neuroscience Letters</i> , 1990, 118, 77-81.	2.1	31
61	The influence of the estrous cycle on the activity of striatal neurons recorded from freely moving rats. <i>Neuroscience Letters</i> , 1989, 107, 233-238.	2.1	2
62	Amphetamine-induced Dopamine Release in the Rat Striatum: An In Vivo Microdialysis Study. <i>Journal of Neurochemistry</i> , 1988, 50, 346-355.	4.0	288
63	Spectrin-like protein (fodrin) in nerve cells in culture. <i>Biochemical Society Transactions</i> , 1986, 14, 356-357.	3.4	0
64	Different patterns of molecular forms of somatostatin are released by the rat median eminence and hypothalamus. <i>Neuroscience Letters</i> , 1985, 57, 215-220.	2.1	15
65	Electrophysiological properties of single units in dopamine-rich mesencephalic transplants in rat brain. <i>Neuroscience Letters</i> , 1985, 57, 205-210.	2.1	175
66	Schneider's First-Rank Symptoms of Schizophrenia. <i>Archives of General Psychiatry</i> , 1984, 41, 1040.	13.2	30
67	Some non-fluorescent connections of the nigro-neostriatal dopamine neurones. <i>Brain Research Bulletin</i> , 1982, 9, 367-378.	3.1	16
68	The effect of DSP-4 on some positively reinforced operant behaviors in the rat. <i>Pharmacology Biochemistry and Behavior</i> , 1982, 16, 197-202.	2.8	16
69	Crossed connections of the substantia nigra in the rat. <i>Journal of Comparative Neurology</i> , 1982, 207, 283-303.	2.0	415
70	The dopamine synapse and the notion of "pleasure centres"™ in the brain. <i>Trends in Neurosciences</i> , 1980, 3, 199-200.	8.8	3
71	Interactions between serotonergic and dopaminergic systems in rat brain demonstrated by small unilateral lesions of the raphe nuclei. <i>European Journal of Pharmacology</i> , 1979, 57, 295-305.	3.6	95
72	Central catecholamine turnover and self-stimulation behaviour. <i>Brain Research</i> , 1971, 27, 406-413.	2.3	92

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73	Depletion of catecholamines in vivo induced by electrical stimulation of central monoamine pathways. Brain Research, 1970, 24, 471-483.	2.3	123
74	Quantitative recording of rotational behavior in rats after 6-hydroxy-dopamine lesions of the nigrostriatal dopamine system. Brain Research, 1970, 24, 485-493.	2.3	1,928