

Nandakumar S Narayanan

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,754
citations

101543

36
h-index

118850

62
g-index

114
all docs

114
docs citations

114
times ranked

5531
citing authors

#	ARTICLE	IF	CITATIONS
1	Top-Down Control of Motor Cortex Ensembles by Dorsomedial Prefrontal Cortex. <i>Neuron</i> , 2006, 52, 921-931.	8.1	272
2	Common medial frontal mechanisms of adaptive control in humans and rodents. <i>Nature Neuroscience</i> , 2013, 16, 1888-1895.	14.8	260
3	Imaging the spread of reversible brain inactivations using fluorescent muscimol. <i>Journal of Neuroscience Methods</i> , 2008, 171, 30-38.	2.5	180
4	Enhancing glycolysis attenuates Parkinson's disease progression in models and clinical databases. <i>Journal of Clinical Investigation</i> , 2019, 129, 4539-4549.	8.2	159
5	The Role of the Prefrontal Cortex in the Maintenance of Verbal Working Memory: An Event-Related fMRI Analysis. <i>Neuropsychology</i> , 2005, 19, 223-232.	1.3	154
6	Prefrontal dopamine signaling and cognitive symptoms of Parkinson's disease. <i>Reviews in the Neurosciences</i> , 2013, 24, 267-78.	2.9	152
7	Medial prefrontal D1 dopamine neurons control food intake. <i>Nature Neuroscience</i> , 2014, 17, 248-253.	14.8	152
8	Reversible inactivations of rat medial prefrontal cortex impair the ability to wait for a stimulus. <i>Neuroscience</i> , 2006, 139, 865-876.	2.3	146
9	Metabolic hormones, dopamine circuits, and feeding. <i>Frontiers in Neuroendocrinology</i> , 2010, 31, 104-112.	5.2	140
10	The vulnerable ventral tegmental area in Parkinson's disease. <i>Basal Ganglia</i> , 2015, 5, 51-55.	0.3	130
11	Delay Activity in Rodent Frontal Cortex During a Simple Reaction Time Task. <i>Journal of Neurophysiology</i> , 2009, 101, 2859-2871.	1.8	124
12	Rodent Medial Frontal Control of Temporal Processing in the Dorsomedial Striatum. <i>Journal of Neuroscience</i> , 2017, 37, 8718-8733.	3.6	118
13	Prefrontal D1 dopamine signaling is required for temporal control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20726-20731.	7.1	112
14	Neuronal Correlates of Post-Error Slowing in the Rat Dorsomedial Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2008, 100, 520-525.	1.8	105
15	Redundancy and Synergy of Neuronal Ensembles in Motor Cortex. <i>Journal of Neuroscience</i> , 2005, 25, 4207-4216.	3.6	104
16	D ₁ -Dependent 4 Hz Oscillations and Ramping Activity in Rodent Medial Frontal Cortex during Interval Timing. <i>Journal of Neuroscience</i> , 2014, 34, 16774-16783.	3.6	102
17	A human prefrontal-subthalamic circuit for cognitive control. <i>Brain</i> , 2018, 141, 205-216.	7.6	100
18	Delta-frequency stimulation of cerebellar projections can compensate for schizophrenia-related medial frontal dysfunction. <i>Molecular Psychiatry</i> , 2017, 22, 647-655.	7.9	99

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19	Regulation of Nucleus Accumbens Activity by the Hypothalamic Neuropeptide Melanin-Concentrating Hormone. <i>Journal of Neuroscience</i> , 2010, 30, 8263-8273.	3.6	96
20	Mid-frontal theta activity is diminished during cognitive control in Parkinson's disease. <i>Neuropsychologia</i> , 2018, 117, 113-122.	1.6	90
21	Medial frontal β activity in humans and rodents is attenuated in PD patients and in rodents with cortical dopamine depletion. <i>Journal of Neurophysiology</i> , 2015, 114, 1310-1320.	1.8	83
22	Optogenetic Stimulation of Frontal D1 Neurons Compensates for Impaired Temporal Control of Action in Dopamine-Depleted Mice. <i>Current Biology</i> , 2017, 27, 39-47.	3.9	81
23	Executive dysfunction in Parkinson's disease and timing deficits. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 75.	2.1	80
24	Frontal theta and beta oscillations during lower-limb movement in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2020, 131, 694-702.	1.5	71
25	The therapeutic potential of the cerebellum in schizophrenia. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 163.	2.5	66
26	Mistakes were made: Neural mechanisms for the adaptive control of action initiation by the medial prefrontal cortex. <i>Journal of Physiology (Paris)</i> , 2015, 109, 104-117.	2.1	65
27	Linear predictive coding distinguishes spectral EEG features of Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2020, 79, 79-85.	2.2	65
28	Ramping activity is a cortical mechanism of temporal control of action. <i>Current Opinion in Behavioral Sciences</i> , 2016, 8, 226-230.	3.9	56
29	A Basal Forebrain Site Coordinates the Modulation of Endocrine and Behavioral Stress Responses via Divergent Neural Pathways. <i>Journal of Neuroscience</i> , 2016, 36, 8687-8699.	3.6	55
30	Coronavirus Disease 2019 Case Fatality and Parkinson's Disease. <i>Movement Disorders</i> , 2020, 35, 1914-1915.	3.9	55
31	Basolateral amygdala projections to ventral hippocampus modulate the consolidation of footshock, but not contextual, learning in rats. <i>Learning and Memory</i> , 2016, 23, 51-60.	1.3	53
32	Neuropeptide Y Activity in the Nucleus Accumbens Modulates Feeding Behavior and Neuronal Activity. <i>Biological Psychiatry</i> , 2015, 77, 633-641.	1.3	51
33	Clock Speed as a Window into Dopaminergic Control of Emotion and Time Perception. <i>Timing and Time Perception</i> , 2016, 4, 99-122.	0.6	49
34	Methods for Studying Functional Interactions Among Neuronal Populations. <i>Methods in Molecular Biology</i> , 2009, 489, 135-165.	0.9	48
35	Infusion of D1 Dopamine Receptor Agonist into Medial Frontal Cortex Disrupts Neural Correlates of Interval Timing. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 294.	2.0	47
36	Timing variability and midfrontal β rhythms correlate with cognition in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2021, 7, 14.	5.3	44

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37	Prefrontal D1 dopamine signaling is necessary for temporal expectation during reaction time performance. <i>Neuroscience</i> , 2013, 255, 246-254.	2.3	42
38	Prefrontalâ€œBed Nucleus Circuit Modulation of a Passive Coping Response Set. <i>Journal of Neuroscience</i> , 2019, 39, 1405-1419.	3.6	42
39	Association of Glycolysis-Enhancing Î±-1 Blockers With Risk of Developing Parkinson Disease. <i>JAMA Neurology</i> , 2021, 78, 407.	9.0	42
40	Startle Habituation and Midfrontal Theta Activity in Parkinson Disease. <i>Journal of Cognitive Neuroscience</i> , 2016, 28, 1923-1932.	2.3	40
41	Protective efficacy of P7C3-S243 in the 6-hydroxydopamine model of Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2015, 1, .	5.3	39
42	Corticostriatal Field Potentials Are Modulated at Delta and Theta Frequencies during Interval-Timing Task in Rodents. <i>Frontiers in Psychology</i> , 2016, 7, 459.	2.1	38
43	Basolateral Amygdala Inputs to the Medial Entorhinal Cortex Selectively Modulate the Consolidation of Spatial and Contextual Learning. <i>Journal of Neuroscience</i> , 2018, 38, 2698-2712.	3.6	36
44	Striatal dopamine and the temporal control of behavior. <i>Behavioural Brain Research</i> , 2019, 356, 375-379.	2.2	35
45	High-gamma band fronto-temporal coherence as a measure of functional connectivity in speech motor control. <i>Neuroscience</i> , 2015, 305, 15-25.	2.3	31
46	Autoantibodies to Collagen XVII Are Present in Parkinsonâ€™s Disease and Localize to Tyrosine-Hydroxylase Positive Neurons. <i>Journal of Investigative Dermatology</i> , 2016, 136, 721-723.	0.7	31
47	Parkinsonâ€™s Disease Dementia and Dementia with Lewy Bodies Have Similar Neuropsychological Profiles. <i>Frontiers in Neurology</i> , 2018, 9, 123.	2.4	31
48	Approach to Cognitive Impairment in Parkinson's Disease. <i>Neurotherapeutics</i> , 2020, 17, 1495-1510.	4.4	29
49	Prefrontal D1 Dopamine-Receptor Neurons and Delta Resonance in Interval Timing. <i>Cerebral Cortex</i> , 2019, 29, 2051-2060.	2.9	28
50	Amantadine's role in the treatment of levodopa-induced dyskinesia. <i>Neurology</i> , 2014, 82, 288-289.	1.1	24
51	Axial levodopa-induced dyskinesias and neuronal activity in the dorsal striatum. <i>Neuroscience</i> , 2017, 343, 240-249.	2.3	24
52	Attenuation of cocaine seeking in rats via enhancement of infralimbic cortical activity using stable step-function opsins. <i>Psychopharmacology</i> , 2019, 236, 479-490.	3.1	24
53	Disease-modifying therapeutic directions for Lewy-Body dementias. <i>Frontiers in Neuroscience</i> , 2015, 9, 293.	2.8	23
54	Spectral representationâ€”analyzing single-unit activity in extracellularly recorded neuronal data without spike sorting. <i>Journal of Neuroscience Methods</i> , 2005, 144, 53-61.	2.5	21

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55	RNA Interference of Human α -Synuclein in Mouse. <i>Frontiers in Neurology</i> , 2017, 8, 13.	2.4	19
56	Two cases of pregnancy in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2014, 20, 239-240.	2.2	17
57	New therapeutic strategies targeting D1-type dopamine receptors for neuropsychiatric disease. <i>Frontiers in Biology</i> , 2015, 10, 230-238.	0.7	17
58	Inhibitory Control: Mapping Medial Frontal Cortex. <i>Current Biology</i> , 2017, 27, R148-R150.	3.9	17
59	Corticostriatal stimulation compensates for medial frontal inactivation during interval timing. <i>Scientific Reports</i> , 2019, 9, 14371.	3.3	17
60	Temporal Learning Among Prefrontal and Striatal Ensembles. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa058.	1.6	17
61	COVID-19 Case Fatality and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 1447-1452.	2.6	17
62	A pilot to assess target engagement of terazosin in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2022, 94, 79-83.	2.2	17
63	Demographics and Autoantibody Profiles of Pemphigoid Patients with Underlying Neurologic Diseases. <i>Journal of Investigative Dermatology</i> , 2019, 139, 1860-1866.e1.	0.7	15
64	Bed nuclei of the stria terminalis modulate memory consolidation via glucocorticoid-dependent and -independent circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8104-8114.	7.1	15
65	Optogenetic approaches to evaluate striatal function in animal models of Parkinson disease. <i>Dialogues in Clinical Neuroscience</i> , 2016, 18, 99-107.	3.7	15
66	Capacity-Speed Relationships in Prefrontal Cortex. <i>PLoS ONE</i> , 2011, 6, e27504.	2.5	14
67	Projection targets of medial frontal D1DR-expressing neurons. <i>Neuroscience Letters</i> , 2017, 655, 166-171.	2.1	14
68	Age-dependent nigral dopaminergic neurodegeneration and α -synuclein accumulation in RGS6-deficient mice. <i>JCI Insight</i> , 2019, 4, .	5.0	14
69	Scopolamine and Medial Frontal Stimulus-Processing during Interval Timing. <i>Neuroscience</i> , 2019, 414, 219-227.	2.3	13
70	Ipsilateral synkinesia involves the supplementary motor area. <i>Neuroscience Letters</i> , 2012, 523, 135-138.	2.1	11
71	Experience-related enhancements in striatal temporal encoding. <i>European Journal of Neuroscience</i> , 2021, 54, 5063-5074.	2.6	11
72	The Fastest Way to Stop: Inhibitory Control and IFG-STN Hyperdirect Connectivity. <i>Neuron</i> , 2020, 106, 549-551.	8.1	11

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73	Thrombolysis for acute stroke in patients with vasculitis: Case report and literature discussion. <i>Clinical Neurology and Neurosurgery</i> , 2013, 115, 351-353.	1.4	10
74	Vogt-Koyanagi-Harada syndrome: A novel case and brief review of focal neurologic presentations. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2014, 1, e49.	6.0	10
75	COVID-19-associated necrotizing encephalopathy presenting without active respiratory symptoms: a case report with histopathology. <i>Journal of NeuroVirology</i> , 2021, , 1.	2.1	10
76	Effect of deep brain stimulation on vocal motor control mechanisms in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2019, 63, 46-53.	2.2	9
77	Separating the effect of reward from corrective feedback during learning in patients with Parkinson's disease. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017, 17, 678-695.	2.0	8
78	Medial prefrontal cortex and the temporal control of action. <i>International Review of Neurobiology</i> , 2021, 158, 421-441.	2.0	8
79	Cortical alpha-synuclein preformed fibrils do not affect interval timing in mice. <i>Neuroscience Letters</i> , 2021, 765, 136273.	2.1	8
80	Mice expressing P301S mutant human tau have deficits in interval timing. <i>Behavioural Brain Research</i> , 2022, 432, 113967.	2.2	7
81	Linear Predictive Approaches Separate Field Potentials in Animal Model of Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2020, 14, 394.	2.8	6
82	Quantifying the inverted U: A meta-analysis of prefrontal dopamine, D1 receptors, and working memory. <i>Behavioral Neuroscience</i> , 2022, 136, 207-218.	1.2	6
83	Past Performance Is Indicative of Future Returns. <i>Neuron</i> , 2009, 63, 146-148.	8.1	5
84	The voltage-gated Ca ²⁺ channel subunit $\alpha_2\delta_4$ regulates locomotor behavior and sensorimotor gating in mice. <i>PLoS ONE</i> , 2022, 17, e0263197.	2.5	5
85	Lip Sync: Gamma Rhythms Orchestrate Top-Down Control of Feeding Circuits. <i>Cell Metabolism</i> , 2017, 25, 497-498.	16.2	4
86	Developing Precision Invasive Neuromodulation for Psychiatry. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2021, 33, 201-209.	1.8	4
87	Neuromodulation of cognition in Parkinson's disease. <i>Progress in Brain Research</i> , 2022, 269, 435-455.	1.4	4
88	GABAergic Modulation in Movement Related Oscillatory Activity: A Review of the Effect Pharmacologically and with Aging. <i>Tremor and Other Hyperkinetic Movements</i> , 2021, 11, 48.	2.0	3
89	The way forward for cognition in Parkinson's disease. <i>Progress in Brain Research</i> , 2022, 269, 457-462.	1.4	3
90	OUP accepted manuscript. <i>Cerebral Cortex</i> , 2022, , .	2.9	3

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91	Single-neuron and ensemble contributions to decoding simultaneously recorded spike trains. , 2008, , 120-148.		2
92	Clinical Reasoning: A 64-year-old woman with progressive quadriparesis. Neurology, 2013, 81, e89-94.	1.1	2
93	Opinion and Special Articles: Mentoring in neurology. Neurology, 2019, 92, 1159-1162.	1.1	2
94	Teaching Neuro <i>Images</i> : CNS actinomycosis in an immunocompetent patient. Neurology, 2012, 79, e85.	1.1	0
95	Feeding as a Reward Mechanism. , 2012, , 47-60.		0
96	Sensorimotor integration during human self-vocalization: Insights from invasive electrophysiology. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
97	Levodopa-induced dyskinesias in Parkinson's disease. , 2020, , 543-555.		0