Stelios M Smirnakis

List of Publications by Year
in descending order

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64 papers	3,389 citations	257357 24 h-index	189801 50 g-index
68 all docs	68 docs citations	68 times ranked	4322 citing authors

#	Article	IF	Citations
1	Adaptation of retinal processing to image contrast and spatial scale. Nature, 1997, 386, 69-73.	13.7	467
2	State Dependence of Noise Correlations in Macaque Primary Visual Cortex. Neuron, 2014, 82, 235-248.	3.8	307
3	Internally Mediated Developmental Desynchronization of Neocortical Network Activity. Journal of Neuroscience, 2009, 29, 10890-10899.	1.7	266
4	Eye Movements Modulate Visual Receptive Fields of V4 Neurons. Neuron, 2001, 29, 757-767.	3.8	263
5	Lack of long-term cortical reorganization after macaque retinal lesions. Nature, 2005, 435, 300-307.	13.7	205
6	Plasticity and stability of visual field maps in adult primary visual cortex. Nature Reviews Neuroscience, 2009, 10, 873-884.	4.9	178
7	Vagus nerve stimulation modulates cortical synchrony and excitability through the activation of muscarinic receptors. Neuroscience, 2011, 189, 207-214.	1.1	146
8	Neurons in macaque area V4 acquire directional tuning after adaptation to motion stimuli. Nature Neuroscience, 2005, 8, 591-593.	7.1	126
9	Viral transduction of the neonatal brain delivers controllable genetic mosaicism for visualising and manipulating neuronal circuits in vivo. European Journal of Neuroscience, 2013, 37, 1203-1220.	1.2	123
10	Dendritic Arborization and Spine Dynamics Are Abnormal in the Mouse Model ofMECP2Duplication Syndrome. Journal of Neuroscience, 2013, 33, 19518-19533.	1.7	123
11	Motion Processing in the Macaque: Revisited with Functional Magnetic Resonance Imaging. Journal of Neuroscience, 2001, 21, 8594-8601.	1.7	99
12	Loss and Gain of MeCP2 Cause Similar Hippocampal Circuit Dysfunction that Is Rescued by Deep Brain Stimulation in a Rett Syndrome Mouse Model. Neuron, 2016, 91, 739-747.	3.8	88
13	Population receptive field analysis of the primary visual cortex complements perimetry in patients with homonymous visual field defects. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1656-65.	3.3	76
14	Visually Driven Activation in Macaque Areas V2 and V3 without Input from the Primary Visual Cortex. PLoS ONE, 2009, 4, e5527.	1.1	75
15	Spatial Specificity of BOLD versus Cerebral Blood Volume fMRI for Mapping Cortical Organization. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1248-1261.	2.4	70
16	Dynamic Control of Excitatory Synapse Development by a Rac1 GEF/GAP Regulatory Complex. Developmental Cell, 2014, 29, 701-715.	3.1	69
17	Machine learning and natural language processing methods to identify ischemic stroke, acuity and location from radiology reports. PLoS ONE, 2020, 15, e0234908.	1.1	63
18	A new method for estimating population receptive field topography in visual cortex. NeuroImage, 2013, 81, 144-157.	2.1	62

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19	Microstimulation of visual cortex to restore vision. Progress in Brain Research, 2009, 175, 347-375.	0.9	58
20	Complex Visual Motion Representation in Mouse Area V1. Journal of Neuroscience, 2017, 37, 164-183.	1.7	48
21	The Visual Cortex in Context. Annual Review of Vision Science, 2019, 5, 317-339.	2.3	45
22	Estimating average single-neuron visual receptive field sizes by fMRI. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6425-6434.	3.3	42
23	Contribution of apical and basal dendrites to orientation encoding in mouse V1 L2/3 pyramidal neurons. Nature Communications, 2019, 10, 5372.	5.8	39
24	Asynchronous suppression of visual cortex during absence seizures in stargazer mice. Nature Communications, 2018, 9, 1938.	5.8	33
25	Fatal Powassan Encephalitis (Deer Tick Virus, Lineage II) in a Patient With Fever and Orchitis Receiving Rituximab. JAMA Neurology, 2018, 75, 746.	4.5	31
26	Characteristics and Outcomes of Latinx Patients With COVID-19 in Comparison With Other Ethnic and Racial Groups. Open Forum Infectious Diseases, 2020, 7, ofaa401.	0.4	26
27	Visual cortex organisation in a macaque monkey with macular degeneration. European Journal of Neuroscience, 2013, 38, 3456-3464.	1.2	25
28	Simultaneous EEG and fMRI in the macaque monkey at 4.7 Tesla. Magnetic Resonance Imaging, 2006, 24, 335-342.	1.0	22
29	Nonlinear population receptive field changes in human area V5/MT+ of healthy subjects with simulated visual field scotomas. NeuroImage, 2015, 120, 176-190.	2.1	21
30	Visually Driven Neuropil Activity and Information Encoding in Mouse Primary Visual Cortex. Frontiers in Neural Circuits, 2017, 11, 50.	1.4	19
31	Increased Axonal Bouton Stability during Learning in the Mouse Model of MECP2 Duplication Syndrome. ENeuro, 2018, 5, ENEURO.0056-17.2018.	0.9	19
32	RADAR: A novel fast-screening method for reading difficulties with special focus on dyslexia. PLoS ONE, 2017, 12, e0182597.	1.1	18
33	Probing Human Visual Deficits with Functional Magnetic Resonance Imaging. Annual Review of Vision Science, 2016, 2, 171-195.	2.3	16
34	Rewiring the adult brain (Reply). Nature, 2005, 438, E3-E4.	13.7	14
35	Anisocoria and Poor Pupil Reactivity by Quantitative Pupillometry in Patients With Intracranial Pathology. Critical Care Medicine, 2022, 50, e143-e153.	0.4	13
36	Organization of area hV5/MT+ in subjects with homonymous visual field defects. NeuroImage, 2019, 190, 254-268.	2.1	12

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37	Excessive Formation and Stabilization of Dendritic Spine Clusters in the MECP2-Duplication Syndrome Mouse Model of Autism. ENeuro, 2021, 8, ENEURO.0282-20.2020.	0.9	12
38	Inhibition of Elevated Ras-MAPK Signaling Normalizes Enhanced Motor Learning and Excessive Clustered Dendritic Spine Stabilization in the MECP2-Duplication Syndrome Mouse Model of Autism. ENeuro, 2021, 8, ENEURO.0056-21.2021.	0.9	11
39	Target receptor identification and subsequent treatment of resected brain tumors with encapsulated and engineered allogeneic stem cells. Nature Communications, 2022, 13, 2810.	5.8	10
40	Internal gain modulations, but not changes in stimulus contrast, preserve the neural code. Journal of Neuroscience, 2019, 39, 2012-18.	1.7	8
41	Inhibitory Units: An Organizing Nidus for Feature-Selective SubNetworks in Area V1. Journal of Neuroscience, 2019, 39, 4931-4944.	1.7	7
42	Natural Language Processing of Radiology Reports to Detect Complications of Ischemic Stroke. Neurocritical Care, 2022, 37, 291-302.	1.2	5
43	Multidisciplinary Protocol for Rapid Head Computed Tomography Turnaround Time in Acute Stroke Patients. Journal of Stroke and Cerebrovascular Diseases, 2015, 24, 1256-1261.	0.7	4
44	Visuomotor control in mice and primates. Neuroscience and Biobehavioral Reviews, 2021, 130, 185-200.	2.9	4
45	Information Transfer Through Stochastic Transmission of a Linear Combination of Rates. Neural Computation, 2013, 25, 2265-2302.	1.3	3
46	Topographical Estimation of Visual Population Receptive Fields by fMRI. Journal of Visualized Experiments, 2015, , .	0.2	3
47	Motor training improves coordination and anxiety in symptomatic Mecp2 -null mice despite impaired functional connectivity within the motor circuit. Science Advances, 2021, 7, eabf7467.	4.7	3
48	Visual Motion Coherence Responses in Human Visual Cortex. Frontiers in Neuroscience, 2022, 16, 719250.	1.4	3
49	Increased Reliability of Visually-Evoked Activity in Area V1 of the MECP2-Duplication Mouse Model of Autism. Journal of Neuroscience, 2022, 42, 6469-6482.	1.7	3
50	The Effect of Single Pyramidal Neuron Firing Within Layer 2/3 and Layer 4 in Mouse V1. Frontiers in Neural Circuits, 2018, 12, 29.	1.4	2
51	Reply to "Motion processing in macaque V4". Nature Neuroscience, 2005, 8, 1125-1125.	7.1	1
52	Macaque Area V2/V3 Reorganization Following Homonymous Retinal Lesions. Frontiers in Neuroscience, 2022, 16, 757091.	1.4	1
53	Blood Pressure Thresholds During Endovascular Therapy in Ischemic Stroke. JAMA Neurology, 2020, 77, 1578.	4.5	0
54	Subcortical Sparing Associated with Ambulatory Independence after Hemicraniectomy for Malignant Infarction. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 105850.	0.7	0

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55	Abstract P260: Mind the Time: A Quality Improvement Project to Increase the Percent of Ischemic Stroke Patients Receiving Intravenous Tissue Plasminogen Activator within 60 Minutes after Arrival at the Emergency Department. Circulation: Cardiovascular Quality and Outcomes, 2011, 4, .	0.9	0
56	Abstract 1122â€000089: Characterization of Critical Sequelae in Ischemic Stroke Using Natural Language Processing. , 2021, 1, .		0
57	Title is missing!. , 2020, 15, e0234908.		0
58	Title is missing!. , 2020, 15, e0234908.		0
59	Title is missing!. , 2020, 15, e0234908.		0
60	Title is missing!. , 2020, 15, e0234908.		0
61	Title is missing!. , 2020, 15, e0234908.		0
62	Title is missing!. , 2020, 15, e0234908.		0
63	Abstract 2399: Protocol for Rapid Acquisition and Interpretation of Head CT in Acute Stroke Patients Eligible for Thrombolysis. Stroke, 2012, 43, .	1.0	0
64	Abstract TP427: Comparison of Clinical Characteristics of Neurogenic Stunned Myocardium in Patients with Subarachnoid Hemorrhage and Acute Ischemic Stroke. Stroke, 2013, 44, .	1.0	0