

Andrew J Trevelyan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2063362/publications.pdf>

Version: 2024-02-01

52
papers

2,871
citations

236925

25
h-index

243625

44
g-index

65
all docs

65
docs citations

65
times ranked

2949
citing authors

#	ARTICLE	IF	CITATIONS
1	PV-specific loss of the transcriptional coactivator PGC-1 β slows down the evolution of epileptic activity in an acute ictogenic model. <i>Journal of Neurophysiology</i> , 2022, 127, 86-98.	1.8	3
2	Genetically encoded sensors for Chloride concentration. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109455.	2.5	16
3	Neuronal Firing and Waveform Alterations through Ictal Recruitment in Humans. <i>Journal of Neuroscience</i> , 2021, 41, 766-779.	3.6	21
4	A Closed-Loop Optogenetic Platform. <i>Frontiers in Neuroscience</i> , 2021, 15, 718311.	2.8	4
5	Modulation of brain cation-Cl $^{-}$ cotransport via the SPAK kinase inhibitor ZT-1a. <i>Nature Communications</i> , 2020, 11, 78.	12.8	69
6	A multiorganism pipeline for antiseizure drug discovery: Identification of chlorothymol as a novel β -aminobutyric acidergic anticonvulsant. <i>Epilepsia</i> , 2020, 61, 2106-2118.	5.1	9
7	Seizure pathways change on circadian and slower timescales in individual patients with focal epilepsy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11048-11058.	7.1	36
8	Chloride dynamics alter the input-output properties of neurons. <i>PLoS Computational Biology</i> , 2020, 16, e1007932.	3.2	28
9	Divisive gain modulation enables flexible and rapid entrainment in a neocortical microcircuit model. <i>Journal of Neurophysiology</i> , 2020, 123, 1133-1143.	1.8	2
10	Propagating Activity in Neocortex, Mediated by Gap Junctions and Modulated by Extracellular Potassium. <i>ENeuro</i> , 2020, 7, ENEURO.0387-19.2020.	1.9	3
11	Chloride dynamics alter the input-output properties of neurons. , 2020, 16, e1007932.		0
12	Chloride dynamics alter the input-output properties of neurons. , 2020, 16, e1007932.		0
13	Chloride dynamics alter the input-output properties of neurons. , 2020, 16, e1007932.		0
14	Chloride dynamics alter the input-output properties of neurons. , 2020, 16, e1007932.		0
15	Chloride dynamics alter the input-output properties of neurons. , 2020, 16, e1007932.		0
16	Chloride dynamics alter the input-output properties of neurons. , 2020, 16, e1007932.		0
17	Divergent paths to seizure-like events. <i>Physiological Reports</i> , 2019, 7, e14226.	1.7	23
18	Excitatory GABAergic signalling is associated with benzodiazepine resistance in status epilepticus. <i>Brain</i> , 2019, 142, 3482-3501.	7.6	67

#	ARTICLE	IF	CITATIONS
19	Multiscale recordings reveal the dynamic spatial structure of human seizures. <i>Neurobiology of Disease</i> , 2019, 127, 303-311.	4.4	50
20	Feedforward inhibition ahead of ictal wavefronts is provided by both parvalbumin- and somatostatin-expressing interneurons. <i>Journal of Physiology</i> , 2019, 597, 2297-2314.	2.9	47
21	Region-specific differences and areal interactions underlying transitions in epileptiform activity. <i>Journal of Physiology</i> , 2019, 597, 2079-2096.	2.9	23
22	Stress-testing the brain to understand its breaking points. <i>Journal of Physiology</i> , 2018, 596, 2033-2034.	2.9	5
23	Simultaneous profiling of activity patterns in multiple neuronal subclasses. <i>Journal of Neuroscience Methods</i> , 2018, 303, 16-29.	2.5	5
24	Graphical user interface for simultaneous profiling of activity patterns in multiple neuronal subclasses. <i>Data in Brief</i> , 2018, 20, 226-233.	1.0	1
25	Pyramidal cell activity levels affect the polarity of activity-induced gene transcription changes in interneurons. <i>Journal of Neurophysiology</i> , 2018, 120, 2358-2367.	1.8	13
26	Mechanisms underlying different onset patterns of focal seizures. <i>PLoS Computational Biology</i> , 2017, 13, e1005475.	3.2	60
27	Do Cortical Circuits Need Protecting from Themselves?. <i>Trends in Neurosciences</i> , 2016, 39, 502-511.	8.6	24
28	The ictal wavefront is the spatiotemporal source of discharges during spontaneous human seizures. <i>Nature Communications</i> , 2016, 7, 11098.	12.8	124
29	Cl-out is a novel cooperative optogenetic tool for extruding chloride from neurons. <i>Nature Communications</i> , 2016, 7, 13495.	12.8	31
30	Opportunities for improving animal welfare in rodent models of epilepsy and seizures. <i>Journal of Neuroscience Methods</i> , 2016, 260, 2-25.	2.5	93
31	Gain control through divisive inhibition prevents abrupt transition to chaos in a neural mass model. <i>Physical Review E</i> , 2015, 92, 032723.	2.1	15
32	The Role of Inhibition in Epileptic Networks. <i>Journal of Clinical Neurophysiology</i> , 2015, 32, 227-234.	1.7	25
33	Moderate acute alcohol intoxication has minimal effect on surround suppression measured with a motion direction discrimination task. <i>Journal of Vision</i> , 2015, 15, 5-5.	0.3	43
34	The Contribution of Raised Intraneuronal Chloride to Epileptic Network Activity. <i>Journal of Neuroscience</i> , 2015, 35, 7715-7726.	3.6	116
35	Neural Stem Cells in the Adult Subventricular Zone Oxidize Fatty Acids to Produce Energy and Support Neurogenic Activity. <i>Stem Cells</i> , 2015, 33, 2306-2319.	3.2	111
36	Seizure localization using ictal phase-locked high gamma. <i>Neurology</i> , 2015, 84, 2320-2328.	1.1	95

#	ARTICLE	IF	CITATIONS
37	Single unit action potentials in humans and the effect of seizure activity. <i>Brain</i> , 2015, 138, 2891-2906.	7.6	81
38	How inhibition influences seizure propagation. <i>Neuropharmacology</i> , 2013, 69, 45-54.	4.1	105
39	The contribution of synaptic location to inhibitory gain control in pyramidal cells. <i>Physiological Reports</i> , 2013, 1, e00067.	1.7	58
40	Ictal high frequency oscillations distinguish two types of seizure territories in humans. <i>Brain</i> , 2013, 136, 3796-3808.	7.6	188
41	Why do some brains seize? Molecular, cellular and network mechanisms. <i>Journal of Physiology</i> , 2013, 591, 751-752.	2.9	0
42	The information content of physiological and epileptic brain activity. <i>Journal of Physiology</i> , 2013, 591, 799-805.	2.9	20
43	Evidence of an inhibitory restraint of seizure activity in humans. <i>Nature Communications</i> , 2012, 3, 1060.	12.8	365
44	Cellular mechanisms of high frequency oscillations in epilepsy: On the diverse sources of pathological activities. <i>Epilepsy Research</i> , 2011, 97, 308-317.	1.6	55
45	Mitochondrial DNA mutations affect calcium handling in differentiated neurons. <i>Brain</i> , 2010, 133, 787-796.	7.6	43
46	The Direct Relationship between Inhibitory Currents and Local Field Potentials. <i>Journal of Neuroscience</i> , 2009, 29, 15299-15307.	3.6	61
47	Feedforward Inhibition Contributes to the Control of Epileptiform Propagation Speed. <i>Journal of Neuroscience</i> , 2007, 27, 3383-3387.	3.6	244
48	The Source of Afterdischarge Activity in Neocortical Tonic-Clonic Epilepsy. <i>Journal of Neuroscience</i> , 2007, 27, 13513-13519.	3.6	57
49	Modular Propagation of Epileptiform Activity: Evidence for an Inhibitory Veto in Neocortex. <i>Journal of Neuroscience</i> , 2006, 26, 12447-12455.	3.6	309
50	Does inhibition balance excitation in neocortex?. <i>Progress in Biophysics and Molecular Biology</i> , 2005, 87, 109-143.	2.9	36
51	Detailed passive cable models of layer 2/3 pyramidal cells in rat visual cortex at different temperatures. <i>Journal of Physiology</i> , 2002, 539, 623-636.	2.9	59
52	Intrinsic Cortical Mechanisms which Oppose Epileptiform Activity: Implications for Seizure Prediction. , 0, , 149-161.		1