

George J Augustine

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

6,531
citations

40
h-index

80
g-index

96
ext. papers

7,573
ext. citations

8.9
avg, IF

5.71
L-index

#	Paper	IF	Citations
85	Changing the Cortical Conductor's Tempo: Neuromodulation of the Claustrum. <i>Frontiers in Neural Circuits</i> , 2021 , 15, 658228	3.5	2
84	A neural circuit for excessive feeding driven by environmental context in mice. <i>Nature Neuroscience</i> , 2021 , 24, 1132-1141	25.5	4
83	Molecular Layer Interneurons: Key Elements of Cerebellar Network Computation and Behavior. <i>Neuroscience</i> , 2021 , 462, 22-35	3.9	10
82	Synapsins and the Synaptic Vesicle Reserve Pool: Floats or Anchors?. <i>Cells</i> , 2021 , 10,	7.9	5
81	Using Optogenetic Dyadic Animal Models to Elucidate the Neural Basis for Human Parent-Infant Social Knowledge Transmission. <i>Frontiers in Neural Circuits</i> , 2021 , 15, 731691	3.5	1
80	Identification of Mouse Claustral Neuron Types Based on Their Intrinsic Electrical Properties. <i>ENeuro</i> , 2020 , 7,	3.9	7
79	Heterogeneous somatostatin-expressing neuron population in mouse ventral tegmental area. <i>ELife</i> , 2020 , 9,	8.9	3
78	An automated data extraction and classification pipeline to identify a novel type of neuron within the dorsal striatum based on single-cell patch clamp and confocal imaging data. <i>Data in Brief</i> , 2020 , 32, 106148	1.2	
77	Synaptic Connectivity between the Cortex and Claustrum Is Organized into Functional Modules. <i>Current Biology</i> , 2020 , 30, 2777-2790.e4	6.3	13
76	Neuroscience: A Role for the Claustrum in Drug Reward. <i>Current Biology</i> , 2020 , 30, R1038-R1040	6.3	2
75	Structural basis for delta cell paracrine regulation in pancreatic islets. <i>Nature Communications</i> , 2019 , 10, 3700	17.4	38
74	Postsynaptic Mechanisms Render Syn I/II/III Mice Highly Responsive to Psychostimulants. <i>International Journal of Neuropsychopharmacology</i> , 2019 , 22, 453-465	5.8	3
73	A Novel Type of Neuron Within the Dorsal Striatum. <i>Frontiers in Neural Circuits</i> , 2019 , 13, 32	3.5	8
72	Precision of Discrete and Rhythmic Forelimb Movements Requires a Distinct Neuronal Subpopulation in the Interposed Anterior Nucleus. <i>Cell Reports</i> , 2018 , 22, 2322-2333	10.6	28
71	Graded Control of Climbing-Fiber-Mediated Plasticity and Learning by Inhibition in the Cerebellum. <i>Neuron</i> , 2018 , 99, 999-1015.e6	13.9	37
70	Molecular Mechanisms of Short-Term Plasticity: Role of Synapsin Phosphorylation in Augmentation and Potentiation of Spontaneous Glutamate Release. <i>Frontiers in Synaptic Neuroscience</i> , 2018 , 10, 33	3.5	11
69	Reversal of Phenotypic Abnormalities by CRISPR/Cas9-Mediated Gene Correction in Huntington Disease Patient-Derived Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2017 , 8, 619-633	8	133

68	Functional properties, topological organization and sexual dimorphism of claustrum neurons projecting to anterior cingulate cortex 2017 , 2, 1357412		6
67	Serial processing of kinematic signals by cerebellar circuitry during voluntary whisking. <i>Nature Communications</i> , 2017 , 8, 232	17.4	26
66	Inhibitory Basal Ganglia Inputs Induce Excitatory Motor Signals in the Thalamus. <i>Neuron</i> , 2017 , 95, 1181-1196.e80	13.9	30
65	Defining a critical period for inhibitory circuits within the somatosensory cortex. <i>Scientific Reports</i> , 2017 , 7, 7271	4.9	12
64	Pancreatic Islet Blood Flow Dynamics in Primates. <i>Cell Reports</i> , 2017 , 20, 1490-1501	10.6	26
63	[P31168]: GENETIC DISSECTION OF SEVERITY AND ONSET MODULATORS FOR ALZHEIMER'S PATHOLOGY IN DOWN SYNDROME USING CELLULAR SYSTEMS 2017 , 13, P998-P999		
62	Calcium-Dependent and Synapsin-Dependent Pathways for the Presynaptic Actions of BDNF. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 75	6.1	13
61	Synapsin Isoforms Regulating GABA Release from Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2016 , 36, 6742-57	6.6	17
60	Luminopsins integrate opto- and chemogenetics by using physical and biological light sources for opsin activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E358-67	11.5	60
59	Drosophila Schip1 Links Expanded and Tao-1 to Regulate Hippo Signaling. <i>Developmental Cell</i> , 2016 , 36, 511-24	10.2	22
58	The cerebellum linearly encodes whisker position during voluntary movement. <i>ELife</i> , 2016 , 5, e10509	8.9	45
57	Synapsins (SYN) 2016 , 1-7		
56	Optogenetics Enables Selective Control of Cellular Electrical Activity 2016 , 275-300		1
55	Choline Ameliorates Disease Phenotypes in Human iPSC Models of Rett Syndrome. <i>NeuroMolecular Medicine</i> , 2016 , 18, 364-77	4.6	21
54	C1 Scarless gene correction in huntington disease patient-derived induced pluripotent stem cells. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, A27.1-A27	5.5	
53	Roadmap on neurophotonics. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18,	1.7	16
52	Optogenetic Visualization of Presynaptic Tonic Inhibition of Cerebellar Parallel Fibers. <i>Journal of Neuroscience</i> , 2016 , 36, 5709-23	6.6	15
51	Protein tyrosine phosphatase receptor type R is required for Purkinje cell responsiveness in cerebellar long-term depression. <i>Molecular Brain</i> , 2015 , 8, 1	4.5	24

50	Rescue of Methyl-CpG Binding Protein 2 Dysfunction-induced Defects in Newborn Neurons by Pentobarbital. <i>Neurotherapeutics</i> , 2015 , 12, 477-90	6.4	14
49	All-optical mapping of barrel cortex circuits based on simultaneous voltage-sensitive dye imaging and channelrhodopsin-mediated photostimulation. <i>Neurophotonics</i> , 2015 , 2, 021013	3.9	4
48	STIM2 regulates PKA-dependent phosphorylation and trafficking of AMPARs. <i>Molecular Biology of the Cell</i> , 2015 , 26, 1141-59	3.5	41
47	Selective Loss of Presynaptic Potassium Channel Clusters at the Cerebellar Basket Cell Terminal Pinceau in Adam11 Mutants Reveals Their Role in Ephaptic Control of Purkinje Cell Firing. <i>Journal of Neuroscience</i> , 2015 , 35, 11433-44	6.6	20
46	An optogenetic approach for assessing formation of neuronal connections in a co-culture system. <i>Journal of Visualized Experiments</i> , 2015 , e52408	1.6	12
45	Synapsin Isoforms and Synaptic Vesicle Trafficking. <i>Molecules and Cells</i> , 2015 , 38, 936-40	3.5	50
44	An excitatory GABA loop operating in vivo. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 275	6.1	20
43	A neuroprotective role for microRNA miR-1000 mediated by limiting glutamate excitotoxicity. <i>Nature Neuroscience</i> , 2015 , 18, 379-85	25.5	48
42	Optogenetic activation of presynaptic inputs in lateral amygdala forms associative fear memory. <i>Learning and Memory</i> , 2014 , 21, 627-33	2.8	36
41	Precise control of movement kinematics by optogenetic inhibition of Purkinje cell activity. <i>Journal of Neuroscience</i> , 2014 , 34, 2321-30	6.6	161
40	Optogenetic mapping of cerebellar inhibitory circuitry reveals spatially biased coordination of interneurons via electrical synapses. <i>Cell Reports</i> , 2014 , 7, 1601-1613	10.6	44
39	Presynaptic nanodomains: a tale of two synapses. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 455	6.1	35
38	Non-invasive activation of optogenetic actuators. <i>Proceedings of SPIE</i> , 2014 , 8928,	1.7	9
37	Optogenetics reveals a role for accumbal medium spiny neurons expressing dopamine D2 receptors in cocaine-induced behavioral sensitization. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 336	3.5	23
36	Visualization of synaptic inhibition with an optogenetic sensor developed by cell-free protein engineering automation. <i>Journal of Neuroscience</i> , 2013 , 33, 16297-309	6.6	63
35	Next-generation transgenic mice for optogenetic analysis of neural circuits. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 160	3.5	46
34	Cell type-specific channelrhodopsin-2 transgenic mice for optogenetic dissection of neural circuitry function. <i>Nature Methods</i> , 2011 , 8, 745-52	21.6	498
33	Optogenetic probing of functional brain circuitry. <i>Experimental Physiology</i> , 2011 , 96, 26-33	2.4	48

32	Imaging synaptic inhibition with the genetically encoded chloride indicator Clomeleon. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 1492-7	1.2	13
31	Progressive NKCC1-dependent neuronal chloride accumulation during neonatal seizures. <i>Journal of Neuroscience</i> , 2010 , 30, 11745-61	6.6	145
30	Synapsins differentially control dopamine and serotonin release. <i>Journal of Neuroscience</i> , 2010 , 30, 9762-70	6.6	74
29	Channel-mediated tonic GABA release from glia. <i>Science</i> , 2010 , 330, 790-6	33.3	369
28	Differences in cortical versus subcortical GABAergic signaling: a candidate mechanism of electroclinical uncoupling of neonatal seizures. <i>Neuron</i> , 2009 , 63, 657-72	13.9	114
27	A positive feedback signal transduction loop determines timing of cerebellar long-term depression. <i>Neuron</i> , 2008 , 59, 608-20	13.9	97
26	Synapsin IIa controls the reserve pool of glutamatergic synaptic vesicles. <i>Journal of Neuroscience</i> , 2008 , 28, 10835-43	6.6	87
25	Imaging synaptic inhibition throughout the brain via genetically targeted Clomeleon. <i>Brain Cell Biology</i> , 2008 , 36, 101-18		51
24	Ca ²⁺ requirements for cerebellar long-term synaptic depression: role for a postsynaptic leaky integrator. <i>Neuron</i> , 2007 , 54, 787-800	13.9	90
23	The chloride transporter Na ⁽⁺⁾ -K ⁽⁺⁾ -Cl ⁻ cotransporter isoform-1 contributes to intracellular chloride increases after in vitro ischemia. <i>Journal of Neuroscience</i> , 2006 , 26, 1396-406	6.6	110
22	Two-photon imaging reveals somatodendritic chloride gradient in retinal ON-type bipolar cells expressing the biosensor Clomeleon. <i>Neuron</i> , 2006 , 49, 81-94	13.9	136
21	Imaging synaptic inhibition in transgenic mice expressing the chloride indicator, Clomeleon. <i>Brain Cell Biology</i> , 2006 , 35, 207-28		74
20	Brain cell technology: a valuable new resource for novel techniques. <i>Brain Cell Biology</i> , 2006 , 35, 205-6		
19	Structural domains involved in the regulation of transmitter release by synapsins. <i>Journal of Neuroscience</i> , 2005 , 25, 2658-69	6.6	109
18	Different presynaptic roles of synapsins at excitatory and inhibitory synapses. <i>Journal of Neuroscience</i> , 2004 , 24, 11368-80	6.6	265
17	Molecular determinants of synapsin targeting to presynaptic terminals. <i>Journal of Neuroscience</i> , 2004 , 24, 3711-20	6.6	107
16	Synaptotagmin I synchronizes transmitter release in mouse hippocampal neurons. <i>Journal of Neuroscience</i> , 2004 , 24, 6127-32	6.6	137
15	Local calcium signaling in neurons. <i>Neuron</i> , 2003 , 40, 331-46	13.9	452

14	Regulation of neurotransmitter release by synapsin III. <i>Journal of Neuroscience</i> , 2002 , 22, 4372-80	6.6	122
13	Calcium-dependent neurotransmitter release: Synaptotagmin to the rescue. <i>Journal of Comparative Neurology</i> , 2001 , 436, 1-3	3.4	6
12	Tonically active protein kinase A regulates neurotransmitter release at the squid giant synapse. <i>Journal of Physiology</i> , 2001 , 531, 141-6	3.9	38
11	Distribution of functional glutamate and GABA receptors on hippocampal pyramidal cells and interneurons. <i>Journal of Neurophysiology</i> , 2000 , 84, 28-38	3.2	82
10	Contribution of superficial layer neurons to premotor bursts in the superior colliculus. <i>Journal of Neurophysiology</i> , 2000 , 84, 460-71	3.2	68
9	A genetically encoded ratiometric indicator for chloride: capturing chloride transients in cultured hippocampal neurons. <i>Neuron</i> , 2000 , 27, 447-59	13.9	349
8	Local calcium release in dendritic spines required for long-term synaptic depression. <i>Neuron</i> , 2000 , 28, 233-44	13.9	217
7	Local excitatory circuits in the intermediate gray layer of the superior colliculus. <i>Journal of Neurophysiology</i> , 1999 , 81, 1424-7	3.2	60
6	Proteins involved in synaptic vesicle trafficking. <i>Journal of Physiology</i> , 1999 , 520 Pt 1, 33-41	3.9	59
5	Synapsins as regulators of neurotransmitter release. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 269-79	5.8	409
4	Two sites of action for synapsin domain E in regulating neurotransmitter release. <i>Nature Neuroscience</i> , 1998 , 1, 29-35	25.5	136
3	Local calcium signalling by inositol-1,4,5-trisphosphate in Purkinje cell dendrites. <i>Nature</i> , 1998 , 396, 753-50.4	50.4	458
2	The calcium signal for transmitter secretion from presynaptic nerve terminals. <i>Annals of the New York Academy of Sciences</i> , 1991 , 635, 365-81	6.5	239
1	A functional logic for neurotransmitter co-release in the cholinergic forebrain pathway		1