

Christopher W Cowan

List of Publications by Year in descending order

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53
papers

4,171
citations

172457

29
h-index

189892

50
g-index

60
all docs

60
docs citations

60
times ranked

6040
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity-Dependent Regulation of MEF2 Transcription Factors Suppresses Excitatory Synapse Number. <i>Science</i> , 2006, 311, 1008-1012.	12.6	516
2	RGS9, a GTPase Accelerator for Phototransduction. <i>Neuron</i> , 1998, 20, 95-102.	8.1	355
3	CREB Transcriptional Activity in Neurons Is Regulated by Multiple, Calcium-Specific Phosphorylation Events. <i>Neuron</i> , 2002, 34, 221-233.	8.1	261
4	Structural determinants for regulation of phosphodiesterase by a G protein at 2.0 Å... <i>Nature</i> , 2001, 409, 1071-1077.	27.8	256
5	Cocaine Regulates MEF2 to Control Synaptic and Behavioral Plasticity. <i>Neuron</i> , 2008, 59, 621-633.	8.1	246
6	Multiple Autism-Linked Genes Mediate Synapse Elimination via Proteasomal Degradation of a Synaptic Scaffold PSD-95. <i>Cell</i> , 2012, 151, 1581-1594.	28.9	235
7	Vav Family GEFs Link Activated Ephs to Endocytosis and Axon Guidance. <i>Neuron</i> , 2005, 46, 205-217.	8.1	217
8	Eph-Dependent Tyrosine Phosphorylation of Ephexin1 Modulates Growth Cone Collapse. <i>Neuron</i> , 2005, 46, 191-204.	8.1	216
9	Guidance Molecules in Synapse Formation and Plasticity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a001842-a001842.	5.5	199
10	Plexins Are GTPase-Activating Proteins for Rap and Are Activated by Induced Dimerization. <i>Science Signaling</i> , 2012, 5, ra6.	3.6	143
11	MEF2C regulates cortical inhibitory and excitatory synapses and behaviors relevant to neurodevelopmental disorders. <i>ELife</i> , 2016, 5, .	6.0	138
12	Fragile X Mental Retardation Protein Is Required for Synapse Elimination by the Activity-Dependent Transcription Factor MEF2. <i>Neuron</i> , 2010, 66, 191-197.	8.1	135
13	Essential Role of Vav Family Guanine Nucleotide Exchange Factors in EphA Receptor-Mediated Angiogenesis. <i>Molecular and Cellular Biology</i> , 2006, 26, 4830-4842.	2.3	122
14	Histone Deacetylase 5 Limits Cocaine Reward through cAMP-Induced Nuclear Import. <i>Neuron</i> , 2012, 73, 108-120.	8.1	99
15	HDAC5 and Its Target Gene, Npas4, Function in the Nucleus Accumbens to Regulate Cocaine-Conditioned Behaviors. <i>Neuron</i> , 2017, 96, 130-144.e6.	8.1	88
16	Fragile X Mental Retardation Protein Regulates Synaptic and Behavioral Plasticity to Repeated Cocaine Administration. <i>Neuron</i> , 2014, 82, 645-658.	8.1	61
17	Opposing Regulation of Cocaine Seeking by Glutamate and GABA Neurons in the Ventral Pallidum. <i>Cell Reports</i> , 2020, 30, 2018-2027.e3.	6.4	58
18	Essential Role for Vav Guanine Nucleotide Exchange Factors in Brain-Derived Neurotrophic Factor-Induced Dendritic Spine Growth and Synapse Plasticity. <i>Journal of Neuroscience</i> , 2011, 31, 12426-12436.	3.6	52

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19	Striatal dysregulation of Cdk5 alters locomotor responses to cocaine, motor learning, and dendritic morphology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18561-18566.	7.1	49
20	Multiple Zinc Binding Sites in Retinal Rod cGMP Phosphodiesterase, PDE6 β . <i>Journal of Biological Chemistry</i> , 2000, 275, 20572-20577.	3.4	47
21	Phosphorylation of RGS9-1 by an Endogenous Protein Kinase in Rod Outer Segments. <i>Journal of Biological Chemistry</i> , 2001, 276, 22287-22295.	3.4	40
22	Emerging roles for MEF2 in brain development and mental disorders. <i>Current Opinion in Neurobiology</i> , 2019, 59, 49-58.	4.2	40
23	Emerging roles of actin cytoskeleton regulating enzymes in drug addiction: actin or reactivin TM ?. <i>Current Opinion in Neurobiology</i> , 2013, 23, 507-512.	4.2	35
24	EphB receptor forward signaling regulates area-specific reciprocal thalamic and cortical axon pathfinding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2188-2193.	7.1	35
25	Role of Dorsal Striatum Histone Deacetylase 5 in Incubation of Methamphetamine Craving. <i>Biological Psychiatry</i> , 2018, 84, 213-222.	1.3	34
26	A chemical genetic approach reveals distinct EphB signaling mechanisms during brain development. <i>Nature Neuroscience</i> , 2012, 15, 1645-1654.	14.8	33
27	MEF2C Hypofunction in Neuronal and Neuroimmune Populations Produces MEF2C Haploinsufficiency Syndrome-like Behaviors in Mice. <i>Biological Psychiatry</i> , 2020, 88, 488-499.	1.3	33
28	A Novel Role for Extracellular Signal-Regulated Kinase 5 and Myocyte Enhancer Factor 2 in Medulloblastoma Cell Death. <i>Cancer Research</i> , 2005, 65, 5683-5689.	0.9	32
29	BDNF-TrkB controls cocaine-induced dendritic spines in rodent nucleus accumbens dissociated from increases in addictive behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9469-9474.	7.1	32
30	[35] Enzymology of GTPase acceleration in phototransduction. <i>Methods in Enzymology</i> , 2000, 315, 524-538.	1.0	31
31	REST Acts through Multiple Deacetylase Complexes. <i>Neuron</i> , 2001, 31, 339-340.	8.1	30
32	EphB2 receptor forward signaling controls cortical growth cone collapse via Nck and Pak. <i>Molecular and Cellular Neurosciences</i> , 2013, 52, 106-116.	2.2	29
33	Knockdown of the histone di-methyltransferase G9a in nucleus accumbens shell decreases cocaine self-administration, stress-induced reinstatement, and anxiety. <i>Neuropsychopharmacology</i> , 2019, 44, 1370-1376.	5.4	29
34	Postsynaptic FMRP bidirectionally regulates excitatory synapses as a function of developmental age and MEF2 activity. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 39-49.	2.2	27
35	Activity-regulated cytoskeleton-associated protein (Arc/Arg3.1) regulates anxiety and novelty-related behaviors. <i>Genes, Brain and Behavior</i> , 2019, 18, e12561.	2.2	25
36	An essential role for MEF2C in the cortical response to loss of sleep in mice. <i>ELife</i> , 2020, 9, .	6.0	25

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37	Use of Adeno-associated and Herpes Simplex Viral Vectors for In Vivo Neuronal Expression in Mice. <i>Current Protocols in Neuroscience</i> , 2015, 73, 4.37.1-4.37.31.	2.6	20
38	The activity-regulated cytoskeleton-associated protein, Arc/Arg3.1, influences mouse cocaine self-administration. <i>Pharmacology Biochemistry and Behavior</i> , 2020, 188, 172818.	2.9	20
39	Novel role and regulation of HDAC4 in cocaine-related behaviors. <i>Addiction Biology</i> , 2018, 23, 653-664.	2.6	19
40	EphB1 and EphB2 intracellular domains regulate the formation of the corpus callosum and anterior commissure. <i>Developmental Neurobiology</i> , 2016, 76, 405-420.	3.0	18
41	It is a complex issue: emerging connections between epigenetic regulators in drug addiction. <i>European Journal of Neuroscience</i> , 2019, 50, 2477-2491.	2.6	16
42	Relapse-Associated Transient Synaptic Potentiation Requires Integrin-Mediated Activation of Focal Adhesion Kinase and Cofilin in D1-Expressing Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 8463-8477.	3.6	16
43	Assessment of Cocaine-induced Behavioral Sensitization and Conditioned Place Preference in Mice. <i>Journal of Visualized Experiments</i> , 2016, , 53107.	0.3	12
44	Dependence of RGS9 ^{Δ1} Membrane Attachment on Its C-terminal Tail. <i>Journal of Biological Chemistry</i> , 2001, 276, 48961-48966.	3.4	9
45	Inactivation of NMDA Receptors in the Ventral Tegmental Area during Cocaine Self-Administration Prevents GluA1 Upregulation but with Paradoxical Increases in Cocaine-Seeking Behavior. <i>Journal of Neuroscience</i> , 2018, 38, 575-585.	3.6	8
46	A Subset of Nucleus Accumbens Neurons Receiving Dense and Functional Prelimbic Cortical Input Are Required for Cocaine Seeking. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 844243.	3.7	8
47	Repeated methamphetamine administration produces cognitive deficits through augmentation of GABAergic synaptic transmission in the prefrontal cortex. <i>Neuropsychopharmacology</i> , 2022, 47, 1816-1825.	5.4	5
48	Sex-dependent role for EPHB2 in brain development and autism-associated behavior. <i>Neuropsychopharmacology</i> , 2021, 46, 2021-2029.	5.4	3
49	The histone methyltransferase G9a mediates stress-regulated alcohol drinking. <i>Addiction Biology</i> , 2022, 27, e13060.	2.6	3
50	Clinical findings from the landmark <i>MEF2C</i> -related disorders natural history study. <i>Molecular Genetics & Genomic Medicine</i> , 2022, 10, e1919.	1.2	3
51	Regulation of Synaptic Connectivity With Chronic Cocaine. <i>American Journal of Psychiatry</i> , 2008, 165, 1393-1393.	7.2	2
52	Striking a balance in fragile X. <i>Nature Medicine</i> , 2013, 19, 1370-1371.	30.7	0
53	Any Way You Splice It: New Molecular Mechanisms of Cocaine-Induced Alternative Gene Expression. <i>Biological Psychiatry</i> , 2018, 84, 162-164.	1.3	0