Christian LÃ¼scher

List of Publications by Year
in descending order

116 papers	16,557 citations	23500 58 h-index	19690 117 g-index
130 all docs	130 docs citations	130 times ranked	15589 citing authors

#	Article	IF	Citations
1	Drug-Evoked Synaptic Plasticity of Excitatory Transmission in the Ventral Tegmental Area. Cold Spring Harbor Perspectives in Medicine, 2021, 11, a039701.	2.9	13
2	Bugs R Us: Restoring sociability with microbiota in autism. Cell Reports Medicine, 2021, 2, 100256.	3.3	1
3	Consolidating the Circuit Model for Addiction. Annual Review of Neuroscience, 2021, 44, 173-195.	5.0	39
4	â€˜Ups, downs, and sidewaysâ€™ of dopamine in drug addiction. Trends in Neurosciences, 2021, 44, 593-594.	4.2	5
5	Synaptic mechanism underlying serotonin modulation of transition to cocaine addiction. Science, 2021, 373, 1252-1256.	6.0	51
6	Corticostriatal Activity Driving Compulsive Reward Seeking. Biological Psychiatry, 2021, 90, 808-818.	0.7	17
7	Dynamic dichotomy of accumbal population activity underlies cocaine sensitization. ELife, 2021, 10, .	2.8	15
8	Regulation of GluA1 phosphorylation by d â€amphetamine and methylphenidate in the cerebellum. Addiction Biology, 2021, 26, e12995.	1.4	2
9	Context-Dependent Multiplexing by Individual VTA Dopamine Neurons. Journal of Neuroscience, 2020, 40, 7489-7509.	1.7	43
10	The transition to compulsion in addiction. Nature Reviews Neuroscience, 2020, 21, 247-263.	4.9	256
11	Projection-specific deficits in synaptic transmission in adult Sapap3-knockout mice. Neuropsychopharmacology, 2020, 45, 2020-2029.	2.8	27
12	Depression of Accumbal to Lateral Hypothalamic Synapses Gates Overeating. Neuron, 2020, 107, 158-172.e4.	3.8	39
13	Aberrant habit formation in the Sapap3-knockout mouse model of obsessive-compulsive disorder. Scientific Reports, 2019, 9, 12061.	1.6	32
14	Dyskinesiaâ€inducing lead contacts optimize outcome of subthalamic stimulation in Parkinson's disease. Movement Disorders, 2019, 34, 1728-1734.	2.2	15
15	Social transmission of food safety depends on synaptic plasticity in the prefrontal cortex. Science, 2019, 364, 991-995.	6.0	32
16	Biomarkers for closed-loop deep brain stimulation in Parkinson disease and beyond. Nature Reviews Neurology, 2019, 15, 343-352.	4.9	132
17	The Molecular Basis of Drug Addiction: Linking Epigenetic to Synaptic and Circuit Mechanisms. Neuron, 2019, 102, 48-59.	3.8	223
18	The mesoSPIM initiative: open-source light-sheet microscopes for imaging cleared tissue. Nature Methods, 2019, 16, 1105-1108.	9.0	174

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19	Homeostatic Plasticity in the Hippocampus Facilitates Memory Extinction. Cell Reports, 2018, 22, 1451-1461.	2.9	46
20	Short pulse width in subthalamic stimulation in Parkinson's disease: a randomized, doubleâ€blind study. Movement Disorders, 2018, 33, 169-173.	2.2	30
21	The future of clinical neuroscience. Clinical and Translational Neuroscience, 2018, 2, 2514183X1878131.	0.4	0
22	Stochastic synaptic plasticity underlying compulsion in a model of addiction. Nature, 2018, 564, 366-371.	13.7	134
23	Dark past of deep-brain stimulation. Nature, 2018, 555, 306-307.	13.7	3
24	Targeting VGLUT2 in Mature Dopamine Neurons Decreases Mesoaccumbal Glutamatergic Transmission and Identifies a Role for Glutamate Co-release in Synaptic Plasticity by Increasing Baseline AMPA/NMDA Ratio. Frontiers in Neural Circuits, 2018, 12, 64.	1.4	32
25	An unusual suspect in cocaine addiction. EMBO Reports, 2018, 19, .	2.0	2
26	Periaqueductal efferents to dopamine and GABA neurons of the VTA. PLoS ONE, 2018, 13, e0190297.	1.1	33
27	Dopamine neurons projecting to medial shell of the nucleus accumbens drive heroin reinforcement. ELife, 2018, 7, .	2.8	125
28	Temporally precise labeling and control of neuromodulatory circuits in the mammalian brain. Nature Methods, 2017, 14, 495-503.	9.0	123
29	A deeply superficial brain stimulation. Movement Disorders, 2017, 32, 1326-1326.	2.2	6
30	Psychostimulant effect of dopaminergic treatment and addictions in Parkinson's disease. Movement Disorders, 2017, 32, 1566-1573.	2.2	61
31	Ribosomal Protein S6 Phosphorylation Is Involved in Novelty-Induced Locomotion, Synaptic Plasticity and mRNA Translation. Frontiers in Molecular Neuroscience, 2017, 10, 419.	1.4	37
32	The Emergence of a Circuit Model for Addiction. Annual Review of Neuroscience, 2016, 39, 257-276.	5.0	200
33	A cross-modal genetic framework for the development and plasticity of sensory pathways. Nature, 2016, 538, 96-98.	13.7	67
34	Convergence of Reinforcing and Anhedonic Cocaine Effects in the Ventral Pallidum. Neuron, 2016, 92, 214-226.	3.8	151
35	Cocaine Exposure Enhances the Activity of Ventral Tegmental Area Dopamine Neurons via Calcium-Impermeable NMDARs. Journal of Neuroscience, 2016, 36, 10759-10768.	1.7	41
36	SHANK3 controls maturation of social reward circuits in the VTA. Nature Neuroscience, 2016, 19, 926-934.	7.1	146

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37	Cell-Type Specific Insertion of GluA2-Lacking AMPARs with Cocaine Exposure Leading to Sensitization, Cue-Induced Seeking, and Incubation of Craving. Neuropsychopharmacology, 2016, 41, 1779-1789.	2.8	97
38	Hippocampal Somatostatin Interneurons Control the Size of Neuronal Memory Ensembles. Neuron, 2016, 89, 1074-1085.	3.8	201
39	GABAB Receptor Functions in the Mesolimbic Dopamine System. , 2016, , 129-154.		5
40	VTA Projection Neurons Releasing GABA and Glutamate in the Dentate Gyrus. ENeuro, 2016, 3, ENEURO.0137-16.2016.	0.9	57
41	Optogenetically inspired deep brain stimulation: linking basic with clinical research. Swiss Medical Weekly, 2016, 146, w14278.	0.8	11
42	Dominique Muller (1956â€“2015). Neuron, 2015, 87, 12-13.	3.8	3
43	Sufficiency of Mesolimbic Dopamine Neuron Stimulation for the Progression to Addiction. Neuron, 2015, 88, 1054-1066.	3.8	257
44	Refining deep brain stimulation to emulate optogenetic treatment of synaptic pathology. Science, 2015, 347, 659-664.	6.0	240
45	Accumbal D1R Neurons Projecting to Lateral Hypothalamus Authorize Feeding. Neuron, 2015, 88, 553-564.	3.8	233
46	Optogenetic dissection of neural circuitry: from synaptic causalities to blue prints for novel treatments of behavioral diseases. Current Opinion in Neurobiology, 2015, 35, 95-100.	2.0	40
47	Optogenetics: 10 years after ChR2 in neuronsâ€”views from the community. Nature Neuroscience, 2015, 18, 1202-1212.	7.1	122
48	D1R/GluN1 complexes in the striatum integrate dopamine and glutamate signalling to control synaptic plasticity and cocaine-induced responses. Molecular Psychiatry, 2014, 19, 1295-1304.	4.1	74
49	Firing Modes of Dopamine Neurons Drive Bidirectional GIRK Channel Plasticity. Journal of Neuroscience, 2014, 34, 5107-5114.	1.7	33
50	The synaptic basis of disease. European Journal of Neuroscience, 2014, 39, 1057-1058.	1.2	1
51	Contrasting forms of cocaine-evoked plasticity control components of relapse. Nature, 2014, 509, 459-464.	13.7	342
52	Pathological circuit function underlying addiction and anxiety disorders. Nature Neuroscience, 2014, 17, 1635-1643.	7.1	170
53	Retinal Input Directs the Recruitment of Inhibitory Interneurons into Thalamic Visual Circuits. Neuron, 2014, 81, 1057-1069.	3.8	63
54	Modality-specific thalamocortical inputs instruct the identity of postsynaptic L4 neurons. Nature, 2014, 511, 471-474.	13.7	116

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55	The Synapse. , 2013, , 145-162.		0
56	Cocaine Disinhibits Dopamine Neurons by Potentiation of GABA Transmission in the Ventral Tegmental Area. Science, 2013, 341, 1521-1525.	6.0	256
57	Expression of Cocaine-Evoked Synaptic Plasticity by GluN3A-Containing NMDA Receptors. Neuron, 2013, 80, 1025-1038.	3.8	97
58	In vivo reprogramming of circuit connectivity in postmitotic neocortical neurons. Nature Neuroscience, 2013, 16, 193-200.	7.1	167
59	Drug-evoked synaptic plasticity: beyond metaplasticity. Current Opinion in Neurobiology, 2013, 23, 553-558.	2.0	48
60	Cocaine-Evoked Synaptic Plasticity of Excitatory Transmission in the Ventral Tegmental Area. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a012013-a012013.	2.9	32
61	Drug-Evoked Synaptic Plasticity Causing Addictive Behavior. Journal of Neuroscience, 2013, 33, 17641-17646.	1.7	62
62	A Comparison of Striatal-Dependent Behaviors in Wild-Type and Hemizygous Drd1a and Drd2 BAC Transgenic Mice. Journal of Neuroscience, 2012, 32, 9119-9123.	1.7	52
63	Ventral tegmental area GABA projections pause accumbal cholinergic interneurons to enhance associative learning. Nature, 2012, 492, 452-456.	13.7	300
64	NMDA Receptor-Dependent Long-Term Potentiation and Long-Term Depression (LTP/LTD). Cold Spring Harbor Perspectives in Biology, 2012, 4, a005710-a005710.	2.3	720
65	Methamphetamine-Evoked Depression of GABAB Receptor Signaling in GABA Neurons of the VTA. Neuron, 2012, 73, 978-989.	3.8	116
66	GABA Neurons of the VTA Drive Conditioned Place Aversion. Neuron, 2012, 73, 1173-1183.	3.8	514
67	Reversal of cocaine-evoked synaptic potentiation resets drug-induced adaptive behaviour. Nature, 2012, 481, 71-75.	13.7	380
68	Drug-evoked plasticity: do addictive drugs reopen a critical period of postnatal synaptic development?. Frontiers in Molecular Neuroscience, 2012, 5, 75.	1.4	22
69	Hooked on benzodiazepines: GABAA receptor subtypes and addiction. Trends in Neurosciences, 2011, 34, 188-197.	4.2	284
70	Drug-Evoked Synaptic Plasticity in Addiction: From Molecular Changes to Circuit Remodeling. Neuron, 2011, 69, 650-663.	3.8	896
71	Synaptic plasticity and addiction: Learning mechanisms gone awry. Neuropharmacology, 2011, 61, 1052-1059.	2.0	77
72	Bi-Directional Effect of Increasing Doses of Baclofen on Reinforcement Learning. Frontiers in Behavioral Neuroscience, 2011, 5, 40.	1.0	15

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73	Cocaine inverts rules for synaptic plasticity of glutamate transmission in the ventral tegmental area. Nature Neuroscience, 2011, 14, 414-416.	7.1	152
74	Mimicking synaptic effects of addictive drugs with selective dopamine neuron stimulation. Channels, 2011, 5, 461-463.	1.5	8
75	In utero exposure to cocaine delays postnatal synaptic maturation of glutamatergic transmission in the VTA. Nature Neuroscience, 2011, 14, 1439-1446.	7.1	70
76	Is there a way to curb benzodiazepine addiction?. Swiss Medical Weekly, 2011, 141, w13277.	0.8	23
77	Effects of the cell typeâ€specific ablation of the cAMPâ€responsive transcription factor in noradrenergic neurons on locus coeruleus firing and withdrawal behavior after chronic exposure to morphine. Journal of Neurochemistry, 2010, 115, 563-573.	2.1	20
78	Emerging roles for G protein-gated inwardly rectifying potassium (GIRK) channels in health and disease. Nature Reviews Neuroscience, 2010, 11, 301-315.	4.9	525
79	Neural bases for addictive properties of benzodiazepines. Nature, 2010, 463, 769-774.	13.7	310
80	Drug-Driven AMPA Receptor Redistribution Mimicked by Selective Dopamine Neuron Stimulation. PLoS ONE, 2010, 5, e15870.	1.1	98
81	Morphine- and CaMKII-Dependent Enhancement of GIRK Channel Signaling in Hippocampal Neurons. Journal of Neuroscience, 2010, 30, 13419-13430.	1.7	36
82	Group 1 mGluR-Dependent Synaptic Long-Term Depression: Mechanisms and Implications for Circuitry and Disease. Neuron, 2010, 65, 445-459.	3.8	529
83	Against addiction: light at the end of the tunnel?. Journal of Physiology, 2009, 587, 3757-3757.	1.3	1
84	Cocaine-evoked synaptic plasticity: persistence in the VTA triggers adaptations in the NAc. Nature Neuroscience, 2009, 12, 1036-1041.	7.1	559
85	Mechanisms of synaptic depression triggered by metabotropic glutamate receptors. Cellular and Molecular Life Sciences, 2008, 65, 2913-2923.	2.4	126
86	Cocaine-evoked synaptic plasticity: a key to addiction?. Nature Neuroscience, 2008, 11, 737-738.	7.1	41
87	Glutamate Receptors on Dopamine Neurons Control the Persistence of Cocaine Seeking. Neuron, 2008, 59, 497-508.	3.8	224
88	Addictive drugs modulate GIRK-channel signaling by regulating RGS proteins. Trends in Pharmacological Sciences, 2008, 29, 544-549.	4.0	35
89	Addiction: The Dark Side of Learning. Pediatric Research, 2008, 63, 1-1.	1.1	11
90	Absence and Rescue of Morphine Withdrawal in GIRK/Kir3 Knock-out Mice. Journal of Neuroscience, 2008, 28, 4069-4077.	1.7	62

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91	Rapid Synthesis and Synaptic Insertion of GluR2 for mGluR-LTD in the Ventral Tegmental Area. Science, 2007, 317, 530-533.	6.0	235
92	RGS2 modulates coupling between GABAB receptors and GIRK channels in dopamine neurons of the ventral tegmental area. Nature Neuroscience, 2007, 10, 1559-1568.	7.1	185
93	Gene cluster lock after pheromone receptor gene choice. EMBO Journal, 2007, 26, 3423-3430.	3.5	54
94	The Mechanistic Classification of Addictive Drugs. PLoS Medicine, 2006, 3, e437.	3.9	179
95	Projection of the GrÃ¼neberg ganglion to the mouse olfactory bulb. European Journal of Neuroscience, 2006, 23, 2887-2894.	1.2	66
96	Cocaine triggered AMPA receptor redistribution is reversed in vivo by mGluR-dependent long-term depression. Nature Neuroscience, 2006, 9, 636-641.	7.1	638
97	mGluRs induce a long-term depression in the ventral tegmental area that involves a switch of the subunit composition of AMPA receptors. European Journal of Neuroscience, 2005, 21, 1280-1288.	1.2	107
98	Endogenous RGS proteins enhance acute desensitization of GABAB receptor-activated GIRK currents in HEK-293T cells. Pflugers Archiv European Journal of Physiology, 2005, 450, 61-73.	1.3	46
99	Applications of two-photon microscopy in the neurosciences. Frontiers in Bioscience - Landmark, 2005, 10, 2263.	3.0	12
100	Â-Arrestin2, interacting with phosphodiesterase 4, regulates synaptic release probability and presynaptic inhibition by opioids. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3034-3039.	3.3	36
101	Bi-directional effects of GABAB receptor agonists on the mesolimbic dopamine system. Nature Neuroscience, 2004, 7, 153-159.	7.1	316
102	Two distinct forms of desensitization of G- protein coupled inwardly rectifying potassium currents evoked by alkaloid and peptide Î¼-opioid receptor agonists. Molecular and Cellular Neurosciences, 2003, 24, 517-523.	1.0	32
103	Desensitization of Â-opioid receptor-evoked potassium currents: Initiation at the receptor, expression at the effector. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4674-4679.	3.3	70
104	Pheromone detection mediated by a V1r vomeronasal receptor. Nature Neuroscience, 2002, 5, 1261-1262.	7.1	208
105	Restless AMPA receptors: implications for synaptic transmission and plasticity. Trends in Neurosciences, 2001, 24, 665-670.	4.2	77
106	Epilepsy, Hyperalgesia, Impaired Memory, and Loss of Pre- and Postsynaptic GABAB Responses in Mice Lacking GABAB(1). Neuron, 2001, 31, 47-58.	3.8	489
107	Synaptic plasticity and dynamic modulation of the postsynaptic membrane. Nature Neuroscience, 2000, 3, 545-550.	7.1	589
108	Dynamin-dependent endocytosis of ionotropic glutamate receptors. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 14112-14117.	3.3	388

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109	Role of AMPA Receptor Cycling in Synaptic Transmission and Plasticity. Neuron, 1999, 24, 649-658.	3.8	641
110	Monitoring Glutamate Release during LTP with Glial Transporter Currents. Neuron, 1998, 21, 435-441.	3.8	124
111	G Protein-Coupled Inwardly Rectifying K+ Channels (GIRKs) Mediate Postsynaptic but Not Presynaptic Transmitter Actions in Hippocampal Neurons. Neuron, 1997, 19, 687-695.	3.8	667
112	Photolysis of caged compounds characterized by ratiometric confocal microscopy: a new approach to homogeneously control and measure the calcium concentration in cardiac myocytes. Cell Calcium, 1996, 19, 255-266.	1.1	55
113	The perception of movements elicited by magnetic cortex stimulation depends on the site of stimulation. Experimental Brain Research, 1996, 109, 154-7.	0.7	1
114	Transitory Alexia without Agraphia in an HIV-Positive Patient Suffering from Toxoplasma Encephalitis: A Case Report. European Neurology, 1992, 32, 26-27.	0.6	8
115	Modification of a consumer digital audio tape (DAT) for analog data recording. Journal of Neuroscience Methods, 1992, 45, 155-158.	1.3	3
116	VTA Dopamine Neurons Multiplex External with Internal Representations of Goal-Directed Action. SSRN Electronic Journal, 0, , .	0.4	2