

Carsten T Wotjak

List of Publications by Year in descending order

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81
papers

7,801
citations

81900

39
h-index

64796

79
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83
all docs

83
docs citations

83
times ranked

8264
citing authors

#	ARTICLE	IF	CITATIONS
1	The endogenous cannabinoid system controls extinction of aversive memories. <i>Nature</i> , 2002, 418, 530-534.	27.8	1,603
2	The Endocannabinoid System Controls Key Epileptogenic Circuits in the Hippocampus. <i>Neuron</i> , 2006, 51, 455-466.	8.1	632
3	Reduced Anxiety, Conditioned Fear, and Hippocampal Long-Term Potentiation in Transient Receptor Potential Vanilloid Type 1 Receptor-Deficient Mice. <i>Journal of Neuroscience</i> , 2007, 27, 832-839.	3.6	310
4	The Role of m6A/m-RNA Methylation in Stress Response Regulation. <i>Neuron</i> , 2018, 99, 389-403.e9.	8.1	293
5	Glutamatergic and Dopaminergic Neurons Mediate Anxiogenic and Anxiolytic Effects of CRHR1. <i>Science</i> , 2011, 333, 1903-1907.	12.6	268
6	A mouse model of posttraumatic stress disorder that distinguishes between conditioned and sensitised fear. <i>Journal of Psychiatric Research</i> , 2007, 41, 848-860.	3.1	241
7	Cannabinoid CB1 Receptor Mediates Fear Extinction via Habituation-Like Processes. <i>Journal of Neuroscience</i> , 2006, 26, 6677-6686.	3.6	204
8	Functional Interactions between Stress and the Endocannabinoid System: From Synaptic Signaling to Behavioral Output. <i>Journal of Neuroscience</i> , 2010, 30, 14980-14986.	3.6	202
9	Corticotropin-Releasing Hormone Drives Anandamide Hydrolysis in the Amygdala to Promote Anxiety. <i>Journal of Neuroscience</i> , 2015, 35, 3879-3892.	3.6	196
10	Endocannabinoid system and mood disorders: Priming a target for new therapies. , 2013, 138, 18-37.		187
11	The endocannabinoid system as a target for novel anxiolytic drugs. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 76, 56-66.	6.1	182
12	Toward an Animal Model of Posttraumatic Stress Disorder. <i>Annals of the New York Academy of Sciences</i> , 2006, 1071, 324-334.	3.8	162
13	Septal vasopressin modulates anxiety-related behaviour in rats. <i>Neuroscience Letters</i> , 1996, 217, 101-104.	2.1	161
14	Nonassociative learning processes determine expression and extinction of conditioned fear in mice. <i>Learning and Memory</i> , 2004, 11, 770-786.	1.3	158
15	Acute transcranial magnetic stimulation of frontal brain regions selectively modulates the release of vasopressin, biogenic amines and amino acids in the rat brain. <i>European Journal of Neuroscience</i> , 2000, 12, 3713-3720.	2.6	146
16	Cannabinoids and Anxiety. <i>Current Topics in Behavioral Neurosciences</i> , 2009, 2, 429-450.	1.7	146
17	Dissociation of within- and between-Session Extinction of Conditioned Fear. <i>Journal of Neuroscience</i> , 2010, 30, 4990-4998.	3.6	145
18	Role of the endocannabinoid system in regulation of the hypothalamic-pituitary-adrenocortical axis. <i>Progress in Brain Research</i> , 2008, 170, 397-432.	1.4	144

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19	Endocannabinoids and stress. <i>Stress</i> , 2011, 14, 384-397.	1.8	115
20	Pain-relief learning in flies, rats, and man: basic research and applied perspectives. <i>Learning and Memory</i> , 2014, 21, 232-252.	1.3	113
21	Chronic CRH depletion from GABAergic, long-range projection neurons in the extended amygdala reduces dopamine release and increases anxiety. <i>Nature Neuroscience</i> , 2018, 21, 803-807.	14.8	106
22	Reduced hippocampus volume in the mouse model of Posttraumatic Stress Disorder. <i>Journal of Psychiatric Research</i> , 2011, 45, 650-659.	3.1	103
23	Opposing Roles for Cannabinoid Receptor Type-1 (CB1) and Transient Receptor Potential Vanilloid Type-1 Channel (TRPV1) on the Modulation of Panic-Like Responses in Rats. <i>Neuropsychopharmacology</i> , 2012, 37, 478-486.	5.4	97
24	2-AG promotes the expression of conditioned fear via cannabinoid receptor type 1 on GABAergic neurons. <i>Psychopharmacology</i> , 2015, 232, 2811-2825.	3.1	91
25	Animal models in psychiatric research: The RDoC system as a new framework for endophenotype-oriented translational neuroscience. <i>Neurobiology of Stress</i> , 2017, 7, 47-56.	4.0	91
26	Neddylation inhibition impairs spine development, destabilizes synapses and deteriorates cognition. <i>Nature Neuroscience</i> , 2015, 18, 239-251.	14.8	88
27	Vasopressin released within the septal brain area during swim stress modulates the behavioural stress response in rats. <i>European Journal of Neuroscience</i> , 1999, 11, 997-1002.	2.6	80
28	Consequences of extinction training on associative and non-associative fear in a mouse model of Posttraumatic Stress Disorder (PTSD). <i>Behavioural Brain Research</i> , 2009, 205, 544-549.	2.2	77
29	Ageing alters intrahypothalamic release patterns of vasopressin and oxytocin in rats. <i>European Journal of Neuroscience</i> , 2000, 12, 1487-1494.	2.6	75
30	Cannabinoid CB1 receptor deficiency increases contextual fear memory under highly aversive conditions and long-term potentiation in vivo. <i>Neurobiology of Learning and Memory</i> , 2012, 98, 47-55.	1.9	70
31	cAMP-dependent regulation of HCN4 controls the tonic entrainment process in sinoatrial node pacemaker cells. <i>Nature Communications</i> , 2020, 11, 5555.	12.8	63
32	Peripubertal cannabidiol treatment rescues behavioral and neurochemical abnormalities in the MAM model of schizophrenia. <i>Neuropharmacology</i> , 2019, 146, 212-221.	4.1	59
33	Making translation work: Harmonizing cross-species methodology in the behavioural neuroscience of Pavlovian fear conditioning. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 329-345.	6.1	58
34	Extinction of avoidance behavior by safety learning depends on endocannabinoid signaling in the hippocampus. <i>Journal of Psychiatric Research</i> , 2017, 90, 46-59.	3.1	57
35	Homeostatic Switch in Hebbian Plasticity and Fear Learning after Sustained Loss of Cav1.2 Calcium Channels. <i>Journal of Neuroscience</i> , 2010, 30, 8367-8375.	3.6	56
36	Differences in extinction of conditioned fear in C57BL/6 substrains are unrelated to expression of α -synuclein. <i>Behavioural Brain Research</i> , 2005, 157, 291-298.	2.2	54

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37	High-resolution imaging of fluorescent whole mouse brains using stabilised organic media (sDISCO). <i>Journal of Biophotonics</i> , 2019, 12, e201800368.	2.3	51
38	Consolidation of Remote Fear Memories Involves Corticotropin-Releasing Hormone (CRH) Receptor Type 1-Mediated Enhancement of AMPA Receptor GluR1 Signaling in the Dentate Gyrus. <i>Neuropsychopharmacology</i> , 2012, 37, 787-796.	5.4	48
39	Fractionated manganese injections: effects on MRI contrast enhancement and physiological measures in C57BL/6 mice. <i>NMR in Biomedicine</i> , 2010, 23, 913-921.	2.8	45
40	Crosstalk between the transcriptional regulation of dopamine D2 and cannabinoid CB1 receptors in schizophrenia: Analyses in patients and in perinatal δ^9 -tetrahydrocannabinol-exposed rats. <i>Pharmacological Research</i> , 2021, 164, 105357.	7.1	43
41	Long-Lasting Hippocampal Synaptic Protein Loss in a Mouse Model of Posttraumatic Stress Disorder. <i>PLoS ONE</i> , 2012, 7, e42603.	2.5	42
42	Trace fear conditioning depends on NMDA receptor activation and protein synthesis within the dorsal hippocampus of mice. <i>Behavioural Brain Research</i> , 2005, 157, 63-69.	2.2	38
43	Potentiated amygdaloid auditory-evoked potentials and freezing behavior after fear conditioning in mice. <i>Brain Research</i> , 2001, 919, 232-241.	2.2	36
44	Altered dopamine D3 receptor gene expression in MAM model of schizophrenia is reversed by peripubertal cannabidiol treatment. <i>Biochemical Pharmacology</i> , 2020, 177, 114004.	4.4	36
45	Co-segregation of hyperactivity, active coping styles, and cognitive dysfunction in mice selectively bred for low levels of anxiety. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 103.	2.0	35
46	Fluoxetine treatment prevents the inflammatory response in a mouse model of posttraumatic stress disorder. <i>Journal of Psychiatric Research</i> , 2016, 76, 74-83.	3.1	33
47	Searching for non-genetic molecular and imaging PTSD risk and resilience markers: Systematic review of literature and design of the German Armed Forces PTSD biomarker study. <i>Psychoneuroendocrinology</i> , 2015, 51, 444-458.	2.7	29
48	Stimulation of the Nigroretectal Pathway at the Level of the Superior Colliculus Reduces Threat Recognition and Causes a Shift From Avoidance to Approach Behavior. <i>Frontiers in Neural Circuits</i> , 2018, 12, 36.	2.8	29
49	Exploratory drive, fear, and anxiety are dissociable and independent components in foraging mice. <i>Translational Psychiatry</i> , 2021, 11, 318.	4.8	29
50	N-arachidonoyl-serotonin, a dual FAAH and TRPV1 blocker, inhibits the retrieval of contextual fear memory: Role of the cannabinoid CB1 receptor in the dorsal hippocampus. <i>Journal of Psychopharmacology</i> , 2017, 31, 750-756.	4.0	28
51	Increased levels of conditioned fear and avoidance behavior coincide with changes in phosphorylation of the protein kinase B (AKT) within the amygdala in a mouse model of extremes in trait anxiety. <i>Neurobiology of Learning and Memory</i> , 2012, 98, 56-65.	1.9	27
52	Enhanced anandamide signaling reduces flight behavior elicited by an approaching robo-beetle. <i>Neuropharmacology</i> , 2017, 126, 233-241.	4.1	27
53	A simplified microwave-based motion detector for home cage activity monitoring in mice. <i>Journal of Biological Engineering</i> , 2017, 11, 36.	4.7	27
54	Sound check, stage design and screen plot – how to increase the comparability of fear conditioning and fear extinction experiments. <i>Psychopharmacology</i> , 2019, 236, 33-48.	3.1	27

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55	Potentiation of amygdaloid and hippocampal auditory-evoked potentials in a discriminatory fear-conditioning task in mice as a function of tone pattern and context. <i>European Journal of Neuroscience</i> , 2003, 18, 639-650.	2.6	26
56	Mn ²⁺ dynamics in manganese-enhanced MRI (MEMRI): Cav1.2 channel-mediated uptake and preferential accumulation in projection terminals. <i>NeuroImage</i> , 2018, 169, 374-382.	4.2	23
57	Distinct behavioral consequences of short-term and prolonged GABAergic depletion in prefrontal cortex and dorsal hippocampus. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 452.	2.0	22
58	Phytocannabinoids and schizophrenia: Focus on adolescence as a critical window of enhanced vulnerability and opportunity for treatment. <i>Pharmacological Research</i> , 2021, 174, 105938.	7.1	21
59	Supraspinal TRPV1 modulates the emotional expression of abdominal pain. <i>Pain</i> , 2014, 155, 2153-2160.	4.2	20
60	Highway to hell or magic smoke? The dose-dependence of Δ^9 -THC in place conditioning paradigms. <i>Learning and Memory</i> , 2018, 25, 446-454.	1.3	19
61	The Cannabinoid CB1 Antagonist TM38837 With Limited Penetrance to the Brain Shows Reduced Fear-Promoting Effects in Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 207.	3.5	19
62	Context and trade-offs characterize real-world threat detection systems: A review and comprehensive framework to improve research practice and resolve the translational crisis. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 115, 25-33.	6.1	19
63	Fluoxetine Treatment Rescues Energy Metabolism Pathway Alterations in a Posttraumatic Stress Disorder Mouse Model. <i>Molecular Neuropsychiatry</i> , 2016, 2, 46-59.	2.9	18
64	The stress susceptibility factor FKBP51 controls S-ketamine-evoked release of mBDNF in the prefrontal cortex of mice. <i>Neurobiology of Stress</i> , 2020, 13, 100239.	4.0	18
65	NextGen Brain Microdialysis: Applying Modern Metabolomics Technology to the Analysis of Extracellular Fluid in the Central Nervous System. <i>Molecular Neuropsychiatry</i> , 2015, 1, 60-67.	2.9	16
66	Disturbed Processing of Contextual Information in HCN3 Channel Deficient Mice. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 436.	2.9	15
67	The modulation of striatonigral and nigrotectal pathways by CB1 signalling in the substantia nigra pars reticulata regulates panic elicited in mice by urutu-cruzeiro lancehead pit vipers. <i>Behavioural Brain Research</i> , 2021, 401, 112996.	2.2	13
68	Explora�o farmacol�gica do sistema endocanabinoide: novas perspectivas para o tratamento de transtornos de ansiedade e depress�o?. <i>Revista Brasileira De Psiquiatria</i> , 2010, 32, 57-514.	1.7	11
69	In Vivo Visualization of Active Polysynaptic Circuits With Longitudinal Manganese-Enhanced MRI (MEMRI). <i>Frontiers in Neural Circuits</i> , 2018, 12, 42.	2.8	11
70	Glycogen synthase kinase-3 β inhibition in the medial prefrontal cortex mediates paradoxical amphetamine action in a mouse model of ADHD. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 67.	2.0	10
71	Why do mice squeak? Toward a better understanding of defensive vocalization. <i>IScience</i> , 2022, 25, 104657.	4.1	10
72	Remote and reversible inhibition of neurons and circuits by small molecule induced potassium channel stabilization. <i>Scientific Reports</i> , 2016, 6, 19293.	3.3	9

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73	Chronic Pain and the Endocannabinoid System: Smart Lipids – A Novel Therapeutic Option?. <i>Medical Cannabis and Cannabinoids</i> , 2022, 5, 61-75.	3.3	8
74	Cannabinoid Receptor Type 1 in the Brain Regulates the Affective Component of Visceral Pain in Mice. <i>Neuroscience</i> , 2018, 384, 397-405.	2.3	7
75	Myo-Inositol Levels in the Dorsal Hippocampus Serve as Glial Prognostic Marker of Mild Cognitive Impairment in Mice. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 731603.	3.4	6
76	Augmented anandamide signalling in the substantia nigra pars reticulata mediates panicolytic-like effects in mice confronted by <i>Crotalus durissus terrificus</i> pit vipers. <i>Psychopharmacology</i> , 2022, 239, 2753-2769.	3.1	5
77	The Endocannabinoid System Differentially Regulates Escape Behavior in Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 201.	2.0	3
78	Orexin 1 and 2 Receptors in the Prelimbic Cortex Modulate Threat Valuation. <i>Neuroscience</i> , 2021, 468, 158-167.	2.3	2
79	Structural correlates of trauma-induced hyperarousal in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 111, 110404.	4.8	2
80	Inhalational Anesthetics Do Not Deteriorate Amyloid- β^2 -Derived Pathophysiology in Alzheimer's Disease: Investigations on the Molecular, Neuronal, and Behavioral Level. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 1193-1218.	2.6	1
81	CB1 receptors in corticotropin-releasing factor neurons selectively control the acoustic startle response in male mice. <i>Genes, Brain and Behavior</i> , 2021, 20, e12775.	2.2	0