Knut Biber

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6613831/publications.pdf

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38 papers	4,211 citations	172457 29 h-index	315739 38 g-index
38 all docs	38 docs citations	38 times ranked	6735 citing authors

#	Article	IF	Citations
1	Neuronal â€˜Onâ€™ and â€˜Offâ€™ signals control microglia. Trends in Neurosciences, 2007, 30, 596-602.	8.6	690
2	Age-related myelin degradation burdens the clearance function of microglia during aging. Nature Neuroscience, 2016, 19, 995-998.	14.8	399
3	Identification of a microglia phenotype supportive of remyelination. Glia, 2012, 60, 306-321.	4.9	303
4	Expression and Signaling of Group I Metabotropic Glutamate Receptors in Astrocytes and Microglia. Journal of Neurochemistry, 1999, 72, 1671-1680.	3.9	200
5	Altered microglia morphology and higher resilience to stress-induced depression-like behavior in CX3CR1-deficient mice. Brain, Behavior, and Immunity, 2016, 55, 126-137.	4.1	190
6	Singleâ€cell transcriptomics reveals distinct inflammationâ€induced microglia signatures. EMBO Reports, 2018, 19, .	4.5	186
7	<scp>USP</scp> 18 lack in microglia causes destructive interferonopathy of the mouse brain. EMBO Journal, 2015, 34, 1612-1629.	7.8	178
8	Increased Signaling via Adenosine A1 Receptors, Sleep Deprivation, Imipramine, and Ketamine Inhibit Depressive-like Behavior via Induction of Homer1a. Neuron, 2015, 87, 549-562.	8.1	168
9	The microglial ATPâ€gated ion channel P2X7 as a CNS drug target. Glia, 2016, 64, 1772-1787.	4.9	155
10	Neuronal CCL21 up-regulates microglia P2X4 expression and initiates neuropathic pain development. EMBO Journal, 2011, 30, 1864-1873.	7.8	146
11	Critical dataâ€based reâ€evaluation of minocycline as a putative specific microglia inhibitor. Glia, 2016, 64, 1788-1794.	4.9	137
12	What is microglia neurotoxicity (Not)?. Glia, 2014, 62, 841-854.	4.9	127
13	Ischemia-induced neuronal expression of the microglia attracting chemokine secondary lymphoid-tissue chemokine (SLC). Glia, 2001, 34, 121-133.	4.9	126
14	Cellular and Molecular Characterization of Microglia: A Unique Immune Cell Population. Frontiers in Immunology, 2017, 8, 198.	4.8	121
15	Chemokines in the brain: neuroimmunology and beyond. Current Opinion in Pharmacology, 2002, 2, 63-68.	3.5	97
16	Central nervous system myeloid cells as drug targets: current status and translational challenges. Nature Reviews Drug Discovery, 2016, 15, 110-124.	46.4	97
17	Forebrain microglia from wild-type but not adult 5xFAD mice prevent amyloid-Î² plaque formation in organotypic hippocampal slice cultures. Scientific Reports, 2015, 5, 14624.	3.3	82
18	Mechanism of microglia neuroprotection: Involvement of <scp>P2X</scp>7, <scp>TNF</scp>Î±, and valproic acid. Glia, 2016, 64, 76-89.	4.9	76

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19	The role of adenosine receptors in mood and anxiety disorders. Journal of Neurochemistry, 2019, 151, 11-27.	3.9	76
20	Synaptic plasticity model of therapeutic sleep deprivation in major depression. Sleep Medicine Reviews, 2016, 30, 53-62.	8.5	66
21	Neuronal CC chemokines: the distinct roles of CCL21 and CCL2 in neuropathic pain. Frontiers in Cellular Neuroscience, 2014, 8, 210.	3.7	64
22	Interleukin-6 Upregulates Neuronal Adenosine A1 Receptors: Implications for Neuromodulation and Neuroprotection. Neuropsychopharmacology, 2008, 33, 2237-2250.	5.4	63
23	Enhanced mGlu5 Signaling in Excitatory Neurons Promotes Rapid Antidepressant Effects via AMPA Receptor Activation. Neuron, 2019, 104, 338-352.e7.	8.1	55
24	Pathophysiological and behavioral effects of systemic inflammation in aged and diseased rodents with relevance to delirium: A systematic review. Brain, Behavior, and Immunity, 2017, 62, 362-381.	4.1	44
25	Carbamazepine-Induced Upregulation of Adenosine A1-Receptors in Astrocyte Cultures Affects Coupling to the Phosphoinositol Signaling Pathway. Neuropsychopharmacology, 1999, 20, 271-278.	5.4	42
26	Expression of L-CCR in HEK 293 cells reveals functional responses to CCL2, CCL5, CCL7, and CCL8. Journal of Leukocyte Biology, 2003, 74, 243-251.	3.3	40
27	Telomere shortening leads to an acceleration of synucleinopathy and impaired microglia response in a genetic mouse model. Acta Neuropathologica Communications, 2016, 4, 87.	5.2	40
28	Activation of EP₂ receptor suppresses poly(I: C) and LPSâ€mediated inflammation in primary microglia and organotypic hippocampal slice cultures: Contributing role for MAPKs. Glia, 2018, 66, 708-724.	4.9	39
29	Microglia replenished OHSC: A culture system to study in vivo like adult microglia. Glia, 2016, 64, 1285-1297.	4.9	35
30	Antidepressants Rescue Stress-Induced Disruption of Synaptic Plasticity via Serotonin Transporterâ€“Independent Inhibition of L-Type Calcium Channels. Biological Psychiatry, 2018, 84, 55-64.	1.3	33
31	Neurodegeneration and neuroinflammation are linked, but independent of alphaâ€synuclein inclusions, in a seeding/spreading mouse model of Parkinson's disease. Glia, 2022, 70, 935-960.	4.9	30
32	Recent insights into antidepressant therapy: Distinct pathways and potential common mechanisms in the treatment of depressive syndromes. Neuroscience and Biobehavioral Reviews, 2018, 88, 63-72.	6.1	25
33	The neuroprotective role of microglial cells against amyloid betaâ€mediated toxicity in organotypic hippocampal slice cultures. Brain Pathology, 2020, 30, 589-602.	4.1	25
34	Enhanced adenosine A1 receptor and Homer1a expression in hippocampus modulates the resilience to stress-induced depression-like behavior. Neuropharmacology, 2020, 162, 107834.	4.1	23
35	GRIN3B missense mutation as an inherited risk factor for schizophrenia: whole-exome sequencing in a family with a familiar history of psychotic disorders. Genetical Research, 2017, 99, e1.	0.9	15
36	Antidepressant treatment is associated with epigenetic alterations of Homer1 promoter in a mouse model of chronic depression. Journal of Affective Disorders, 2021, 279, 501-509.	4.1	14

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37	Reestablishing microglia function: good news for Alzheimer's therapy?. EMBO Journal, 2017, 36, 565-567.	7.8	2
38	Replenishment of Organotypic Hippocampal Slice Cultures with Neonatal or Adult Microglia. Methods in Molecular Biology, 2019, 2034, 127-147.	0.9	2