Catharina C Gross

List of Publications by Year
in descending order

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55 papers	2,254 citations	257450 24 h-index	233421 45 g-index
57 all docs	57 docs citations	57 times ranked	3979 citing authors

#	Article	IF	Citations
1	Integrated single cell analysis of blood and cerebrospinal fluid leukocytes in multiple sclerosis. Nature Communications, 2020, 11, 247.	12.8	242
2	Impaired NK-mediated regulation of T-cell activity in multiple sclerosis is reconstituted by IL-2 receptor modulation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2973-82.	7.1	157
3	Clinical relevance of specific T-cell activation in the blood and cerebrospinal fluid of patients with mild Alzheimer's disease. Neurobiology of Aging, 2015, 36, 81-89.	3.1	141
4	VLA-4 blockade promotes differential routes into human CNS involving PSGL-1 rolling of T cells and MCAM-adhesion of TH17 cells. Journal of Experimental Medicine, 2014, 211, 1833-1846.	8.5	134
5	<scp>NMDAR</scp> encephalitis: passive transfer from man to mouse by a recombinant antibody. Annals of Clinical and Translational Neurology, 2017, 4, 768-783.	3.7	101
6	Ultraviolet B light attenuates the systemic immune response in central nervous system autoimmunity. Annals of Neurology, 2014, 75, 739-758.	5.3	100
7	Imaging matrix metalloproteinase activity in multiple sclerosis as a specific marker of leukocyte penetration of the blood-brain barrier. Science Translational Medicine, 2016, 8, 364ra152.	12.4	94
8	Teriflunomide treatment for multiple sclerosis modulates T cell mitochondrial respiration with affinity-dependent effects. Science Translational Medicine, 2019, 11, .	12.4	92
9	Immune Cell Activation in the Cerebrospinal Fluid of Patients With Parkinson's Disease. Frontiers in Neurology, 2018, 9, 1081.	2.4	91
10	Regulatory Functions of Natural Killer Cells in Multiple Sclerosis. Frontiers in Immunology, 2016, 7, 606.	4.8	88
11	CD8+ T cell-mediated endotheliopathy is a targetable mechanism of neuro-inflammation in Susac syndrome. Nature Communications, 2019, 10, 5779.	12.8	87
12	Fingolimod treatment promotes regulatory phenotype and function of B cells. Annals of Clinical and Translational Neurology, 2015, 2, 119-130.	3.7	82
13	Tolerogenic dendritic cell-based treatment for multiple sclerosis (MS): a harmonised study protocol for two phase I clinical trials comparing intradermal and intranodal cell administration. BMJ Open, 2019, 9, e030309.	1.9	63
14	Sex bias in MHC I-associated shaping of the adaptive immune system. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2168-2173.	7.1	51
15	Effects of Blood Transportation on Human Peripheral Mononuclear Cell Yield, Phenotype and Function: Implications for Immune Cell Biobanking. PLoS ONE, 2014, 9, e115920.	2.5	43
16	Neurocognitive decline in HIV patients is associated with ongoing Tâ€cell activation in the cerebrospinal fluid. Annals of Clinical and Translational Neurology, 2015, 2, 906-919.	3.7	40
17	Plasma kallikrein modulates immune cell trafficking during neuroinflammation via PAR2 and bradykinin release. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 271-276.	7.1	40
18	Human CCR5high effector memory cells perform CNS parenchymal immune surveillance via GZMK-mediated transendothelial diapedesis. Brain, 2019, 142, 3411-3427.	7.6	39

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19	Immune signatures of prodromal multiple sclerosis in monozygotic twins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21546-21556.	7.1	36
20	Prothrombin and factor X are elevated in multiple sclerosis patients. Annals of Neurology, 2016, 80, 946-951.	5.3	35
21	Distinct pattern of lesion distribution in multiple sclerosis is associated with different circulating T-helper and helper-like innate lymphoid cell subsets. Multiple Sclerosis Journal, 2017, 23, 1025-1030.	3.0	30
22	Anti-JCV serology during natalizumab treatment: Review and meta-analysis of 17 independent patient cohorts analyzing anti-John Cunningham polyoma virus sero-conversion rates under natalizumab treatment and differences between technical and biological sero-converters. Multiple Sclerosis Journal, 2018, 24, 563-573.	3.0	28
23	Dietary conjugated linoleic acid links reduced intestinal inflammation to amelioration of CNS autoimmunity. Brain, 2021, 144, 1152-1166.	7.6	28
24	Treating a GAD65 Antibody-Associated Limbic Encephalitis with Basiliximab: A Case Study. Frontiers in Neurology, 2015, 6, 167.	2.4	26
25	Immune Cell Profiling of the Cerebrospinal Fluid Provides Pathogenetic Insights Into Inflammatory Neuropathies. Frontiers in Immunology, 2019, 10, 515.	4.8	26
26	Interferon-Beta Therapy of Multiple Sclerosis Patients Improves the Responsiveness of T Cells for Immune Suppression by Regulatory T Cells. International Journal of Molecular Sciences, 2015, 16, 16330-16346.	4.1	25
27	Amyotrophic lateral sclerosis patients show increased peripheral and intrathecal T-cell activation. Brain Communications, 2021, 3, fcab157.	3.3	25
28	B7-H1 shapes T-cellâ€“mediated brain endothelial cell dysfunction and regional encephalitogenicity in spontaneous CNS autoimmunity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6182-E6191.	7.1	24
29	Immune Cell Profiling During Switching from Natalizumab to Fingolimod Reveals Differential Effects on Systemic Immune-Regulatory Networks and on Trafficking of Non-T Cell Populations into the Cerebrospinal Fluidâ€”Results from the ToFingo Successor Study. Frontiers in Immunology, 2018, 9, 1560.	4.8	24
30	Classification of neurological diseases using multi-dimensional CSF analysis. Brain, 2021, 144, 2625-2634.	7.6	22
31	Dual action by fumaric acid esters synergistically reduces adhesion to human endothelium. Multiple Sclerosis Journal, 2018, 24, 1871-1882.	3.0	21
32	Cerebrospinal fluid flow cytometry distinguishes psychosis spectrum disorders from differential diagnoses. Molecular Psychiatry, 2021, 26, 7661-7670.	7.9	18
33	Leukocyte profiles in blood and CSF distinguish neurosarcoidosis from multiple sclerosis. Journal of Neuroimmunology, 2020, 341, 577171.	2.3	17
34	Immune cell profiling in the cerebrospinal fluid of patients with primary angiitis of the central nervous system reflects the heterogeneity of the disease. Journal of Neuroimmunology, 2018, 321, 109-116.	2.3	16
35	Pretreatment anti-thyroid autoantibodies indicate increased risk for thyroid autoimmunity secondary to alemtuzumab: A prospective cohort study. EBioMedicine, 2019, 46, 381-386.	6.1	14
36	B7-H1 Selectively Controls TH17 Differentiation and Central Nervous System Autoimmunity via a Novel Nonâ€“PD-1â€“Mediated Pathway. Journal of Immunology, 2015, 195, 3584-3595.	0.8	13

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37	Cerebrospinal Fluid Concentrations of Neuronal Proteins Are Reduced in Primary Angiitis of the Central Nervous System. Frontiers in Neurology, 2018, 9, 407.	2.4	13
38	The twoâ€pore domain K₂P channel TASK2 drives human NKâ€cell proliferation and cytolytic function. European Journal of Immunology, 2015, 45, 2602-2614.	2.9	12
39	Blood and cerebrospinal fluid immune cell profiles in patients with temporal lobe epilepsy of different etiologies. Epilepsia, 2020, 61, e153-e158.	5.1	12
40	Immunophenotyping of cerebrospinal fluid cells in ischaemic stroke. European Journal of Neurology, 2019, 26, 919-926.	3.3	10
41	Characterization of Extracranial Giant Cell Arteritis with Intracranial Involvement and its Rapidly Progressive Subtype. Annals of Neurology, 2021, 90, 118-129.	5.3	10
42	Natural Killer Cells Are Present in Rag1âˆ’/âˆ’ Mice and Promote Tissue Damage During the Acute Phase of Ischemic Stroke. Translational Stroke Research, 2022, 13, 197-211.	4.2	10
43	Fundamental mechanistic insights from rare but paradigmatic neuroimmunological diseases. Nature Reviews Neurology, 2021, 17, 433-447.	10.1	9
44	Primary B Cell Lymphoma of the CNS Mimicking Anti-LGI1 Limbic Encephalitis. Frontiers in Neurology, 2018, 9, 658.	2.4	8
45	Diagnostic utility of cerebrospinal fluid (CSF) findings in seizures and epilepsy with and without autoimmune-associated disease. Seizure: the Journal of the British Epilepsy Association, 2021, 91, 233-243.	2.0	8
46	Assessment of immune functions and MRI disease activity in relapsing-remitting multiple sclerosis patients switching from natalizumab to fingolimod (ToFingo-Successor). BMC Neurology, 2015, 15, 96.	1.8	7
47	Relevance of raised cerebrospinal fluid monocyte levels in patients with frontotemporal dementia. Neurobiology of Aging, 2018, 62, 45-52.	3.1	6
48	An Enigmatic Case of Acute Mercury Poisoning: Clinical, Immunological Findings and Platelet Function. Frontiers in Neurology, 2017, 8, 517.	2.4	5
49	High anti-JCPyV serum titers coincide with high CSF cell counts in RRMS patients. Multiple Sclerosis Journal, 2021, 27, 1491-1496.	3.0	5
50	The Innate Immune Response Characterizes Posterior Reversible Encephalopathy Syndrome. Journal of Clinical Immunology, 2021, 41, 1229-1240.	3.8	5
51	Treating refractory post-herpetic anti-N-methyl-d-aspartate receptor encephalitis with rituximab. Oxford Medical Case Reports, 2017, 2017, omx034.	0.4	4
52	Impact of FcÎ³R variants on the response to alemtuzumab in multiple sclerosis. Annals of Clinical and Translational Neurology, 2019, 6, 2586-2594.	3.7	4
53	Reply to Liu et al.: Haplotype matters: CD226 polymorphism as a potential trigger for impaired immune regulation in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E908-E909.	7.1	3
54	Analysis of Lymphocyte Extravasation Using an In Vitro Model of the Human Blood-brain Barrier. Journal of Visualized Experiments, 2017, , .	0.3	3

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55	Onconeural antigen spreading in paraneoplastic neurological disease due to small cell lung cancer. Oxford Medical Case Reports, 2018, 2018, omy034.	0.4	3