Arthur Liesz

List of Publications by Year
in descending order

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72 papers	7,457 citations	71102 41 h-index	91884 69 g-index
78 all docs	78 docs citations	78 times ranked	8849 citing authors

#	Article	IF	Citations
1	Regulatory T cells are key cerebroprotective immunomodulators in acute experimental stroke. Nature Medicine, 2009, 15, 192-199.	30.7	908
2	Microbiota Dysbiosis Controls the Neuroinflammatory Response after Stroke. Journal of Neuroscience, 2016, 36, 7428-7440.	3.6	530
3	Microglia monitor and protect neuronal function through specialized somatic purinergic junctions. Science, 2020, 367, 528-537.	12.6	381
4	Inhibition of lymphocyte trafficking shields the brain against deleterious neuroinflammation after stroke. Brain, 2011, 134, 704-720.	7.6	346
5	Hemostatic Therapy in Experimental Intracerebral Hemorrhage Associated With the Direct Thrombin Inhibitor Dabigatran. Stroke, 2011, 42, 3594-3599.	2.0	334
6	Panoptic imaging of transparent mice reveals whole-body neuronal projections and skullâ€"meninges connections. Nature Neuroscience, 2019, 22, 317-327.	14.8	318
7	DAMP Signaling is a Key Pathway Inducing Immune Modulation after Brain Injury. Journal of Neuroscience, 2015, 35, 583-598.	3.6	275
8	RNA-Seq Identifies Circulating miR-125a-5p, miR-125b-5p, and miR-143-3p as Potential Biomarkers for Acute Ischemic Stroke. Circulation Research, 2017, 121, 970-980.	4.5	210
9	Results of a preclinical randomized controlled multicenter trial (pRCT): Anti-CD49d treatment for acute brain ischemia. Science Translational Medicine, 2015, 7, 299ra121.	12.4	207
10	Infarct Volume is a Major Determiner of Post-Stroke Immune Cell Function and Susceptibility to Infection. Stroke, 2009, 40, 3226-3232.	2.0	201
11	Short-Chain Fatty Acids Improve Poststroke Recovery via Immunological Mechanisms. Journal of Neuroscience, 2020, 40, 1162-1173.	3.6	199
12	Boosting Regulatory T Cells Limits Neuroinflammation in Permanent Cortical Stroke. Journal of Neuroscience, 2013, 33, 17350-17362.	3.6	171
13	Automated Morphological Analysis of Microglia After Stroke. Frontiers in Cellular Neuroscience, 2018, 12, 106.	3.7	169
14	Microbiota-derived short chain fatty acids modulate microglia and promote AÎ² plaque deposition. ELife, 2021, 10, .	6.0	148
15	TREM2 deficiency reduces the efficacy of immunotherapeutic amyloid clearance. EMBO Molecular Medicine, 2016, 8, 992-1004.	6.9	144
16	The Spectrum of Systemic Immune Alterations After Murine Focal Ischemia. Stroke, 2009, 40, 2849-2858.	2.0	142
17	Functional Role of Regulatory Lymphocytes in Stroke. Stroke, 2015, 46, 1422-1430.	2.0	136
18	Postischemic Brain Infiltration of Leukocyte Subpopulations Differs among Murine Permanent and Transient Focal Cerebral Ischemia Models. Brain Pathology, 2013, 23, 34-44.	4.1	128

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19	Young microglia restore amyloid plaque clearance of aged microglia. EMBO Journal, 2017, 36, 583-603.	7.8	124
20	Leukocyte Invasion of the Brain After Experimental Intracerebral Hemorrhage in Mice. Stroke, 2014, 45, 2107-2114.	2.0	121
21	Differential effects of sympathetic nervous system and hypothalamicâ€"pituitaryâ€"adrenal axis on systemic immune cells after severe experimental stroke. Brain, Behavior, and Immunity, 2014, 41, 200-209.	4.1	114
22	The microbiome-gut-brain axis in acute and chronic brain diseases. Current Opinion in Neurobiology, 2020, 61, 1-9.	4.2	105
23	Single-cell profiling of CNS border compartment leukocytes reveals that B cells and their progenitors reside in non-diseased meninges. Nature Neuroscience, 2021, 24, 1225-1234.	14.8	103
24	HMGB1 as a Key Mediator of Immune Mechanisms in Ischemic Stroke. Antioxidants and Redox Signaling, 2016, 24, 635-651.	5.4	95
25	Amplification of Regulatory T Cells Using a CD28 Superagonist Reduces Brain Damage After Ischemic Stroke in Mice. Stroke, 2015, 46, 212-220.	2.0	94
26	FTY720 Reduces Post-Ischemic Brain Lymphocyte Influx but Does Not Improve Outcome in Permanent Murine Cerebral Ischemia. PLoS ONE, 2011, 6, e21312.	2.5	92
27	The gut microbiome primes a cerebroprotective immune response after stroke. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1293-1298.	4.3	91
28	The choroid plexus is a key cerebral invasion route for T cells after stroke. Acta Neuropathologica, 2017, 134, 851-868.	7.7	87
29	Regulatory T Cells in Post-stroke Immune Homeostasis. Translational Stroke Research, 2016, 7, 313-321.	4.2	84
30	Antigen Dependently Activated Cluster of Differentiation 8-Positive T Cells Cause Perforin-Mediated Neurotoxicity in Experimental Stroke. Journal of Neuroscience, 2014, 34, 16784-16795.	3.6	83
31	Fibrillar AÎ² triggers microglial proteome alterations and dysfunction in Alzheimer mouse models. ELife, 2020, 9, .	6.0	80
32	Interfering with the Chronic Immune Response Rescues Chronic Degeneration After Traumatic Brain Injury. Journal of Neuroscience, 2016, 36, 9962-9975.	3.6	79
33	Modeling Stroke in Mice: Permanent Coagulation of the Distal Middle Cerebral Artery. Journal of Visualized Experiments, 2014, , e51729.	0.3	73
34	Homeostatic nuclear RAGEâ€"ATM interaction is essential for efficient DNA repair. Nucleic Acids Research, 2017, 45, 10595-10613.	14.5	66
35	Histone Deacetylase 9 Activates IKK to Regulate Atherosclerotic Plaque Vulnerability. Circulation Research, 2020, 127, 811-823.	4.5	64
36	Microbiota differences between commercial breeders impacts the post-stroke immune response. Brain, Behavior, and Immunity, 2017, 66, 23-30.	4.1	58

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37	Post-injury immunosuppression and secondary infections are caused by an AIM2 inflammasome-driven signaling cascade. Immunity, 2021, 54, 648-659.e8.	14.3	57
38	The meningeal and choroidal infiltration routes for leukocytes in stroke. Therapeutic Advances in Neurological Disorders, 2018, 11, 175628641878370.	3.5	56
39	Intracerebral interleukin-10 injection modulates post-ischemic neuroinflammation: An experimental microarray study. Neuroscience Letters, 2014, 579, 18-23.	2.1	55
40	Stress Mediators and Immune Dysfunction in Patients with Acute Cerebrovascular Diseases. PLoS ONE, 2013, 8, e74839.	2.5	55
41	Brain-released alarmins and stress response synergize in accelerating atherosclerosis progression after stroke. Science Translational Medicine, 2018, 10, .	12.4	54
42	In vivo widefield calcium imaging of the mouse cortex for analysis of network connectivity in health and brain disease. NeuroImage, 2019, 199, 570-584.	4.2	50
43	Inadequate food and water intake determine mortality following stroke in mice. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2084-2097.	4.3	46
44	The next step in translational research: lessons learned from the first preclinical randomized controlled trial. Journal of Neurochemistry, 2016, 139, 271-279.	3.9	45
45	Active polyâ€GA vaccination prevents microglia activation and motor deficits in a <i>C9orf72</i> mouse model. EMBO Molecular Medicine, 2020, 12, e10919.	6.9	39
46	Comparison of humoral neuroinflammation and adhesion molecule expression in two models of experimental intracerebral hemorrhage. Experimental & Translational Stroke Medicine, 2011, 3, 11.	3.2	38
47	Loss of TREM2 rescues hyperactivation of microglia, but not lysosomal deficits and neurotoxicity in models of progranulin deficiency. EMBO Journal, 2022, 41, e109108.	7.8	38
48	Reduced Efficacy of Circulating Costimulatory Cells After Focal Cerebral Ischemia. Stroke, 2011, 42, 3580-3586.	2.0	34
49	The vascular side of Alzheimer's disease. Science, 2019, 365, 223-224.	12.6	34
50	Spectratype analysis of clonal T cell expansion in murine experimental stroke. Journal of Neuroimmunology, 2013, 257, 46-52.	2.3	33
51	<scp>CCL</scp>23: a new <scp>CC</scp> chemokine involved in human brain damage. Journal of Internal Medicine, 2018, 283, 461-475.	6.0	32
52	Hematoma size as major modulator of the cellular immune system after experimental intracerebral hemorrhage. Neuroscience Letters, 2011, 490, 170-174.	2.1	30
53	Usefulness of Serum Procalcitonin Levels for the Early Diagnosis of Stroke-Associated Respiratory Tract Infections. Neurocritical Care, 2011, 14, 416-422.	2.4	30
54	T cells in the post-ischemic brain: Troopers or paramedics?. Journal of Neuroimmunology, 2019, 326, 33-37.	2.3	28

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55	Chronic T cell proliferation in brains after stroke could interfere with the efficacy of immunotherapies. Journal of Experimental Medicine, 2021, 218, .	8.5	26
56	Acquired Immunoglobulin G deficiency in stroke patients and experimental brain ischemia. Experimental Neurology, 2015, 271, 46-52.	4.1	19
57	Reliability of infarct volumetry: Its relevance and the improvement by a software-assisted approach. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3015-3026.	4.3	15
58	Stroke research at the crossroads - where are we heading?. Swiss Medical Weekly, 2016, 146, w14329.	1.6	14
59	Detection of cytokine-induced sickness behavior after ischemic stroke by an optimized behavioral assessment battery. Brain, Behavior, and Immunity, 2021, 91, 668-672.	4.1	13
60	The gut microbiota modulates brain network connectivity under physiological conditions and after acute brain ischemia. IScience, 2021, 24, 103095.	4.1	12
61	Coming to the Rescue: Regulatory T Cells for Promoting Recovery After Ischemic Stroke. Stroke, 2021, 52, e837-e841.	2.0	9
62	Modeling Stroke in Mice: Transient Middle Cerebral Artery Occlusion via the External Carotid Artery. Journal of Visualized Experiments, 2021, , .	0.3	5
63	Reduced Acquisition Time [18F]GE-180 PET Scanning Protocol Replaces Gold-Standard Dynamic Acquisition in a Mouse Ischemic Stroke Model. Frontiers in Medicine, 2022, 9, 830020.	2.6	5
64	Editorial: Mechanisms of neuroinflammation and inflammatory neurodegeneration in acute brain injury. Frontiers in Cellular Neuroscience, 2015, 9, 300.	3.7	4
65	Response to Letter Regarding Article, â€œAmplification of Regulatory T Cells Using a CD28 Superagonist Reduces Brain Damage After Ischemic Stroke in Miceâ€. Stroke, 2015, 46, e52.	2.0	4
66	Modeling Stroke in Mice: Focal Cortical Lesions by Photothrombosis. Journal of Visualized Experiments, 2021, , .	0.3	4
67	Immunity in Stroke: The Next Frontier. Thrombosis and Haemostasis, 0, , .	3.4	3
68	A macrophage-T cell coculture model for severe tissue injury-induced TÂcell death. STAR Protocols, 2021, 2, 100983.	1.2	2
69	Implications of immune responses for ischemic brain injury and stroke recovery. Brain, Behavior, and Immunity, 2021, 96, 292-294.	4.1	1
70	Caspase-1 signaling links monocyte activation and pyroptotic lymphocytopenia after acute brain injury. Journal of Neuroimmunology, 2014, 275, 71-72.	2.3	0
71	Regulatory T Cells in Ischemic Brain Injury. Springer Series in Translational Stroke Research, 2016, , 201-215.	0.1	0
72	The Role of T Cells in Post-stroke Regeneration. Springer Series in Translational Stroke Research, 2018, , 491-507.	0.1	0