Markus Kipp

List of Publications by Year
in descending order

94 papers	5,108 citations	109321 35 h-index	95266 68 g-index
95 all docs	95 docs citations	95 times ranked	6100 citing authors

#	Article	IF	Citations
1	The cuprizone animal model: new insights into an old story. Acta Neuropathologica, 2009, 118, 723-736.	7.7	415
2	Oligodendrocyteâ€microglia crossâ€talk in the central nervous system. Immunology, 2014, 141, 302-313.	4.4	299
3	Astrocytes regulate myelin clearance through recruitment of microglia during cuprizone-induced demyelination. Brain, 2013, 136, 147-167.	7.6	298
4	Oxidative stress in multiple sclerosis: Central and peripheral mode of action. Experimental Neurology, 2016, 277, 58-67.	4.1	230
5	17Î²â€estradiol and progesterone prevent cuprizone provoked demyelination of corpus callosum in male mice. Glia, 2009, 57, 807-814.	4.9	175
6	Multiple sclerosis animal models: a clinical and histopathological perspective. Brain Pathology, 2017, 27, 123-137.	4.1	174
7	Clusters of activated microglia in normal-appearing white matter show signs of innate immune activation. Journal of Neuroinflammation, 2012, 9, 156.	7.2	153
8	Myelin debris regulates inflammatory responses in an experimental demyelination animal model and multiple sclerosis lesions. Glia, 2012, 60, 1468-1480.	4.9	131
9	Activation and Regulation of NLRP3 Inflammasome by Intrathecal Application of SDF-1a in a Spinal Cord Injury Model. Molecular Neurobiology, 2016, 53, 3063-3075.	4.0	129
10	Gonadal steroids prevent cell damage and stimulate behavioral recovery after transient middle cerebral artery occlusion in male and female rats. Brain, Behavior, and Immunity, 2011, 25, 715-726.	4.1	119
11	In Vitro and In Vivo Models of Multiple Sclerosis. CNS and Neurological Disorders - Drug Targets, 2012, 11, 570-588.	1.4	119
12	Sulforaphane suppresses LPS-induced inflammation in primary rat microglia. Inflammation Research, 2010, 59, 443-450.	4.0	116
13	CXCL10 Triggers Early Microglial Activation in the Cuprizone Model. Journal of Immunology, 2015, 194, 3400-3413.	0.8	115
14	Estrogen Attenuates Local Inflammasome Expression and Activation after Spinal Cord Injury. Molecular Neurobiology, 2018, 55, 1364-1375.	4.0	98
15	Impact of sex steroids on neuroinflammatory processes and experimental multiple sclerosis. Frontiers in Neuroendocrinology, 2009, 30, 188-200.	5.2	97
16	Cuprizone treatment induces demyelination and astrocytosis in the mouse hippocampus. Journal of Neuroscience Research, 2009, 87, 1343-1355.	2.9	96
17	Cuprizone Treatment Induces Distinct Demyelination, Astrocytosis, and Microglia Cell Invasion or Proliferation in the Mouse Cerebellum. Cerebellum, 2009, 8, 163-174.	2.5	95
18	TTC staining of damaged brain areas after MCA occlusion in the rat does not constrict quantitative gene and protein analyses. Journal of Neuroscience Methods, 2010, 187, 84-89.	2.5	93

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19	Phagocytosis of neuronal debris by microglia is associated with neuronal damage in multiple sclerosis. Glia, 2012, 60, 422-431.	4.9	85
20	The Cuprizone Model: Dos and Do Nots. Cells, 2020, 9, 843.	4.1	82
21	Cuprizone-Induced Demyelination as a Tool to Study Remyelination and Axonal Protection. Journal of Molecular Neuroscience, 2013, 51, 567-572.	2.3	79
22	Experimental in vivo and in vitro models of multiple sclerosis: EAE and beyond. Multiple Sclerosis and Related Disorders, 2012, 1, 15-28.	2.0	78
23	Brain-Region-Specific Astroglial Responses In Vitro After LPS Exposure. Journal of Molecular Neuroscience, 2008, 35, 235-243.	2.3	77
24	Estrogen and the development and protection of nigrostriatal dopaminergic neurons: Concerted action of a multitude of signals, protective molecules, and growth factors. Frontiers in Neuroendocrinology, 2006, 27, 376-390.	5.2	73
25	Multiple sclerosis: Neuroprotective alliance of estrogenâ€“progesterone and gender. Frontiers in Neuroendocrinology, 2012, 33, 1-16.	5.2	73
26	Anatomical Distribution of Cuprizone-Induced Lesions in C57BL6 Mice. Journal of Molecular Neuroscience, 2015, 57, 166-175.	2.3	73
27	Mechanism of Siponimod: Anti-Inflammatory and Neuroprotective Mode of Action. Cells, 2019, 8, 24.	4.1	73
28	Cuprizone effect on myelination, astrogliosis and microglia attraction in the mouse basal ganglia. Brain Research, 2009, 1305, 137-149.	2.2	69
29	Induction of regulatory T cells in Th1-/Th17-driven experimental autoimmune encephalomyelitis by zinc administration. Journal of Nutritional Biochemistry, 2016, 29, 116-123.	4.2	69
30	Synaptophysin Is a Reliable Marker for Axonal Damage. Journal of Neuropathology and Experimental Neurology, 2017, 76, 109-125.	1.7	61
31	Neurodegeneration Triggers Peripheral Immune Cell Recruitment into the Forebrain. Journal of Neuroscience, 2016, 36, 1410-1415.	3.6	59
32	Pathology of Multiple Sclerosis. CNS and Neurological Disorders - Drug Targets, 2012, 11, 506-517.	1.4	57
33	Combination of cuprizone and experimental autoimmune encephalomyelitis to study inflammatory brain lesion formation and progression. Glia, 2017, 65, 1900-1913.	4.9	56
34	Thalamus pathology in multiple sclerosis: from biology to clinical application. Cellular and Molecular Life Sciences, 2015, 72, 1127-1147.	5.4	54
35	Short-Term Cuprizone Feeding Induces Selective Amino Acid Deprivation with Concomitant Activation of an Integrated Stress Response in Oligodendrocytes. Cellular and Molecular Neurobiology, 2013, 33, 1087-1098.	3.3	51
36	Acute axonal damage in three different murine models of multiple sclerosis: A comparative approach. Brain Research, 2016, 1650, 125-133.	2.2	38

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37	Transmembrane protein 119 is neither a specific nor a reliable marker for microglia. Glia, 2022, 70, 1170-1190.	4.9	33
38	Selective regulation of growth factor expression in cultured cortical astrocytes by neuro-pathological toxins. Neurochemistry International, 2009, 55, 610-618.	3.8	32
39	Extracellular ATP Selectively Upregulates Ecto-Nucleoside Triphosphate Diphosphohydrolase 2 and Ecto-5â€²-Nucleotidase by Rat Cortical Astrocytes In Vitro. Journal of Molecular Neuroscience, 2015, 57, 452-462.	2.3	32
40	Cuprizone-Containing Pellets Are Less Potent to Induce Consistent Demyelination in the Corpus Callosum of C57BL/6 Mice. Journal of Molecular Neuroscience, 2017, 61, 617-624.	2.3	32
41	Expression of Translocator Protein and [18F]-GE180 Ligand Uptake in Multiple Sclerosis Animal Models. Cells, 2019, 8, 94.	4.1	32
42	Endogeneous Remyelination: Findings in Human Studies. CNS and Neurological Disorders - Drug Targets, 2012, 11, 598-609.	1.4	31
43	Cuprizoneâ€induced graded oligodendrocyte vulnerability is regulated by the transcription factor DNA damageâ€inducible transcript 3. Glia, 2019, 67, 263-276.	4.9	31
44	ADAM12 is expressed by astrocytes during experimental demyelination. Brain Research, 2010, 1326, 1-14.	2.2	29
45	Absence of CCL2 and CCL3 Ameliorates Central Nervous System Grey Matter But Not White Matter Demyelination in the Presence of an Intact Bloodâ€“Brain Barrier. Molecular Neurobiology, 2016, 53, 1551-1564.	4.0	29
46	Female sex steroids and glia cells: Impact on multiple sclerosis lesion formation and fine tuning of the local neurodegenerative cellular network. Neuroscience and Biobehavioral Reviews, 2016, 67, 125-136.	6.1	28
47	G-Protein-Coupled Receptor Gpr17 Expression in Two Multiple Sclerosis Remyelination Models. Molecular Neurobiology, 2019, 56, 1109-1123.	4.0	27
48	Thalamus Degeneration and Inflammation in Two Distinct Multiple Sclerosis Animal Models. Journal of Molecular Neuroscience, 2016, 60, 102-114.	2.3	24
49	Effect of Intrastriatal 6-OHDA Lesions on Extrastriatal Brain Structures in the Mouse. Molecular Neurobiology, 2018, 55, 4240-4252.	4.0	24
50	Does Siponimod Exert Direct Effects in the Central Nervous System?. Cells, 2020, 9, 1771.	4.1	24
51	Cuprizoneâ€induced demyelination triggers a <scp>CD8</scp>â€pronounced T cell recruitment. Glia, 2021, 69, 925-942.	4.9	24
52	Combined Application of 17-Estradiol and Progesterone Enhance Vascular Endothelial Growth Factor and Surfactant Protein Expression in Cultured Embryonic Lung Cells of Mice. International Journal of Pediatrics (United Kingdom), 2009, 2009, 1-8.	0.8	23
53	Glial Amyloid Precursor Protein Expression is Restricted to Astrocytes in an Experimental Toxic Model of Multiple Sclerosis. Journal of Molecular Neuroscience, 2011, 43, 268-274.	2.3	23
54	Remyelination strategies in multiple sclerosis: a critical reflection. Expert Review of Neurotherapeutics, 2016, 16, 1-3.	2.8	23

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55	Pentraxinâ€3 is upregulated in the central nervous system during MS and EAE, but does not modulate experimental neurological disease. European Journal of Immunology, 2016, 46, 701-711.	2.9	22
56	Toll-Like Receptor 2-Mediated Glial Cell Activation in a Mouse Model of Cuprizone-Induced Demyelination. Molecular Neurobiology, 2018, 55, 6237-6249.	4.0	22
57	Short-Term Cuprizone Feeding Verifies N-Acetylaspartate Quantification as a Marker of Neurodegeneration. Journal of Molecular Neuroscience, 2015, 55, 733-748.	2.3	20
58	High Speed Ventral Plane Videography as a Convenient Tool to Quantify Motor Deficits during Pre-Clinical Experimental Autoimmune Encephalomyelitis. Cells, 2019, 8, 1439.	4.1	19
59	Interleukin-17 and Th17 Lymphocytes Directly Impair Motoneuron Survival of Wildtype and FUS-ALS Mutant Human iPSCs. International Journal of Molecular Sciences, 2021, 22, 8042.	4.1	19
60	Ectopic lymphoid follicles in progressive multiple sclerosis: From patients to animal models. Immunology, 2021, 164, 450-466.	4.4	18
61	Different Methods for Evaluating Microglial Activation Using Anti-Ionized Calcium-Binding Adaptor Protein-1 Immunohistochemistry in the Cuprizone Model. Cells, 2022, 11, 1723.	4.1	18
62	Oligodendrocyte degeneration and concomitant microglia activation directs peripheral immune cells into the forebrain. Neurochemistry International, 2019, 126, 139-153.	3.8	17
63	Identification of highly connected hub genes in the protective response program of human macrophages and microglia activated by alpha Bâ€crystallin. Glia, 2017, 65, 460-473.	4.9	16
64	Blocking Inflammasome Activation Caused by Î²-Amyloid Peptide (AÎ²) and Islet Amyloid Polypeptide (IAPP) through an IAPP Mimic. ACS Chemical Neuroscience, 2019, 10, 3703-3717.	3.5	16
65	Phosphatidylcholine 36:1 concentration decreasesÂalong with demyelination in the cuprizone animal model and in postâ€mortem multiple sclerosis brain tissue. Journal of Neurochemistry, 2018, 145, 504-515.	3.9	15
66	Oligodendrocyte Physiology and Pathology Function. Cells, 2020, 9, 2078.	4.1	15
67	Neurofilament light as an immune target for pathogenic antibodies. Immunology, 2017, 152, 580-588.	4.4	14
68	Chemical hypoxiaâ€induced integrated stress response activation in oligodendrocytes is mediated by the transcription factor nuclear factor (erythroidâ€derived 2)â€like 2 (<scp>NRF</scp>2). Journal of Neurochemistry, 2018, 144, 285-301.	3.9	14
69	Aquaporin-4 Expression during Toxic and Autoimmune Demyelination. Cells, 2020, 9, 2187.	4.1	14
70	Lesion Expansion in Experimental Demyelination Animal Models and Multiple Sclerosis Lesions. Molecular Neurobiology, 2016, 53, 4905-4917.	4.0	13
71	Design-Based Stereology for Evaluation of Histological Parameters. Journal of Molecular Neuroscience, 2017, 61, 325-342.	2.3	13
72	Laquinimod Supports Remyelination in Non-Supportive Environments. Cells, 2019, 8, 1363.	4.1	13

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73	Mitochondrial Impairment in Oligodendroglial Cells Induces Cytokine Expression and Signaling. Journal of Molecular Neuroscience, 2019, 67, 265-275.	2.3	13
74	Animal Weight Is an Important Variable for Reliable Cuprizone-Induced Demyelination. Journal of Molecular Neuroscience, 2019, 68, 522-528.	2.3	12
75	Visualization of the Breakdown of the Axonal Transport Machinery: a Comparative Ultrastructural and Immunohistochemical Approach. Molecular Neurobiology, 2019, 56, 3984-3998.	4.0	12
76	Continuous cuprizone intoxication allows active experimental autoimmune encephalomyelitis induction in C57BL/6 mice. Histochemistry and Cell Biology, 2019, 152, 119-131.	1.7	11
77	Laquinimod ameliorates secondary brain inflammation. Neurobiology of Disease, 2020, 134, 104675.	4.4	11
78	Evaluation strategy to determine reliable demyelination in the cuprizone model. Metabolic Brain Disease, 2019, 34, 681-685.	2.9	10
79	What Guides Peripheral Immune Cells into the Central Nervous System?. Cells, 2021, 10, 2041.	4.1	10
80	The Role of Glial Cells in Regulating Feeding Behavior: Potential Relevance to Anorexia Nervosa. Journal of Clinical Medicine, 2022, 11, 186.	2.4	10
81	Oligodendrocyte Lineage Marker Expression in eGFP-GFAP Transgenic Mice. Journal of Molecular Neuroscience, 2021, 71, 2237-2248.	2.3	8
82	Lack of chemokine (C-C motif) ligand 3 leads to decreased survival and reduced immune response after bacterial meningitis. Cytokine, 2018, 111, 246-254.	3.2	7
83	Cuprizone as a model of myelin and axonal damage. Drug Discovery Today: Disease Models, 2017, 25-26, 63-68.	1.2	6
84	Stereological Investigation of Regional Brain Volumes after Acute and Chronic Cuprizone-Induced Demyelination. Cells, 2019, 8, 1024.	4.1	6
85	Water-Soluble Cuprizone Derivative: Synthesis, Characterization, and in Vitro Studies. ACS Omega, 2019, 4, 1685-1689.	3.5	6
86	Impact of the COVID-19 Pandemic on the Acceptance and Use of an E-Learning Platform. International Journal of Environmental Research and Public Health, 2021, 18, 11372.	2.6	6
87	Do pre-clinical multiple sclerosis models allow us to measure neurodegeneration and clinical progression?. Expert Review of Neurotherapeutics, 2018, 18, 351-353.	2.8	5
88	Focal white matter lesions induce long-lasting axonal degeneration, neuroinflammation and behavioral deficits. Neurobiology of Disease, 2021, 155, 105371.	4.4	4
89	Cuprizone Intoxication Results in Myelin Vacuole Formation. Frontiers in Cellular Neuroscience, 2022, 16, 709596.	3.7	4
90	CD44 expression in the cuprizone model. Brain Research, 2020, 1745, 146950.	2.2	3

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91	An Extensible Semantic Search Engine for Biomedical Publications. , 2018, , .		2
92	Expression of Ectonucleoside Triphosphate Diphosphohydrolase 2 (NTPDase2) Is Negatively Regulated Under Neuroinflammatory Conditions<i>In Vivo</i>and<i>In Vitro</i>. ASN Neuro, 2022, 14, 175909142211020.	2.7	2
93	ViLiP â€” A visual literature research platform for biomedical publications. , 2017, , .		1
94	Spontaneous Hind Limb Paralysis Due to Acute Precursor B Cell Leukemia in RAG1-deficient Mice. Journal of Molecular Neuroscience, 2022, 72, 1646-1655.	2.3	1