

Markus Morawski

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

4,379
citations

109321

35
h-index

123424

61
g-index

100
all docs

100
docs citations

100
times ranked

5955
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding the best clearing approach - Towards 3D wide-scale multimodal imaging of aged human brain tissue. <i>NeuroImage</i> , 2022, 247, 118832.	4.2	7
2	Claudin-10a Deficiency Shifts Proximal Tubular Cl- Permeability to Cation Selectivity via Claudin-2 Redistribution. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 699-717.	6.1	20
3	High Iron and Iron Household Protein Contents in Perineuronal Net-Ensheathed Neurons Ensure Energy Metabolism with Safe Iron Handling. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1634.	4.1	2
4	Towards a representative reference for MRI-based human axon radius assessment using light microscopy. <i>NeuroImage</i> , 2022, 249, 118906.	4.2	2
5	Tau Protein Modulates Perineuronal Extracellular Matrix Expression in the TauP301L- <i>Acan</i> Mouse Model. <i>Biomolecules</i> , 2022, 12, 505.	4.0	1
6	Aggrecan modulates the expression and phosphorylation of tau in a novel bigenic TauP301L <i>Acan</i> mouse model. <i>European Journal of Neuroscience</i> , 2021, 53, 3889-3904.	2.6	5
7	Cell specific quantitative iron mapping on brain slices by immuno- μ PIXE in healthy elderly and Parkinson's disease. <i>Acta Neuropathologica Communications</i> , 2021, 9, 47.	5.2	26
8	miR24-3p activity after delivery into pancreatic carcinoma cell lines exerts profound tumor-inhibitory effects through distinct pathways of apoptosis and autophagy induction. <i>Cancer Letters</i> , 2021, 503, 174-184.	7.2	10
9	Developmental Differences in Neocortex Neurogenesis and Maturation Between the Altricial Dwarf Rabbit and Precocial Guinea Pig. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 678385.	1.7	8
10	Brain extracellular matrix: An upcoming target in neurological and psychiatric disorders. <i>European Journal of Neuroscience</i> , 2021, 53, 3807-3810.	2.6	9
11	Measuring the iron content of dopaminergic neurons in substantia nigra with MRI relaxometry. <i>NeuroImage</i> , 2021, 239, 118255.	4.2	28
12	Mapping the human lateral geniculate nucleus and its cytoarchitectonic subdivisions using quantitative MRI. <i>NeuroImage</i> , 2021, 244, 118559.	4.2	10
13	Adhesion GPCR GPR56 Expression Profiling in Human Tissues. <i>Cells</i> , 2021, 10, 3557.	4.1	6
14	Distribution and classification of the extracellular matrix in the olfactory bulb. <i>Brain Structure and Function</i> , 2020, 225, 321-344.	2.3	12
15	The protein tyrosine phosphatase RPTP β /phosphacan is critical for perineuronal net structure. <i>Journal of Biological Chemistry</i> , 2020, 295, 955-968.	3.4	11
16	Superficial white matter imaging: Contrast mechanisms and whole-brain in vivo mapping. <i>Science Advances</i> , 2020, 6, .	10.3	65
17	Neurocan Contributes to Perineuronal Net Development. <i>Neuroscience</i> , 2020, 442, 69-86.	2.3	23
18	Amyloid-Beta Peptides Trigger Aggregation of Alpha-Synuclein In Vitro. <i>Molecules</i> , 2020, 25, 580.	3.8	53

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19	The protein tyrosine phosphatase RPTP α /phosphacan is critical for perineuronal net structure. <i>Journal of Biological Chemistry</i> , 2020, 295, 955-968.	3.4	14
20	Biophysically motivated efficient estimation of the spatially isotropic component from a single gradient- ϵ recalled echo measurement. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1804-1811.	3.0	10
21	Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases. <i>Brain</i> , 2019, 142, 2558-2571.	7.6	219
22	Iron concentrations in neurons and glial cells with estimates on ferritin concentrations. <i>BMC Neuroscience</i> , 2019, 20, 25.	1.9	108
23	Influence of the extracellular matrix on water mobility in subcortical gray matter. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1265-1279.	3.0	6
24	Developing 3D microscopy with CLARITY on human brain tissue: Towards a tool for informing and validating MRI-based histology. <i>NeuroImage</i> , 2018, 182, 417-428.	4.2	81
25	Synaptic coupling of inner ear sensory cells is controlled by brevicin-based extracellular matrix baskets resembling perineuronal nets. <i>BMC Biology</i> , 2018, 16, 99.	3.8	23
26	Carnosine selectively inhibits migration of IDH-wildtype glioblastoma cells in a co-culture model with fibroblasts. <i>Cancer Cell International</i> , 2018, 18, 111.	4.1	10
27	Peri-arterial Autonomic Innervation of the Human Ear. <i>Scientific Reports</i> , 2018, 8, 11469.	3.3	10
28	Neuroanatomical characterization of perineuronal net components in the human cochlear nucleus and superior olivary complex. <i>Hearing Research</i> , 2018, 367, 32-47.	2.0	4
29	Combining Deep Learning and Active Contours Opens The Way to Robust, Automated Analysis of Brain Cytoarchitectonics. <i>Lecture Notes in Computer Science</i> , 2018, , 179-187.	1.3	4
30	The Cytotoxic Effects of Camptothecin and Mastoparan on the Unicellular Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Eukaryotic Microbiology</i> , 2017, 64, 806-819.	1.7	4
31	A Cytomic Approach Towards Genomic Individuality of Neurons. <i>NeuroMethods</i> , 2017, , 81-106.	0.3	1
32	Inhomogeneous distribution of β -amyloid pathology along the isocortical relief. Are cortical convolutions an β -amyloid chilles heel of evolution?. <i>Brain Pathology</i> , 2017, 27, 603-611.	4.1	21
33	Subthalamic nucleus volumes are highly consistent but decrease age-dependently-a combined magnetic resonance imaging and stereology approach in humans. <i>Human Brain Mapping</i> , 2017, 38, 909-922.	3.6	31
34	Reorganization of Synaptic Connections and Perineuronal Nets in the Deep Cerebellar Nuclei of α -Synuclein Purkinje Cell Degeneration Mutant Mice. <i>Neural Plasticity</i> , 2016, 2016, 1-17.	2.2	18
35	Deficiency of prolyl oligopeptidase in mice disturbs synaptic plasticity and reduces anxiety-like behaviour, body weight, and brain volume. <i>European Neuropsychopharmacology</i> , 2016, 26, 1048-1061.	0.7	25
36	Early pathologic amyloid induces hypersynchrony of BOLD resting-state networks in transgenic mice and provides an early therapeutic window before amyloid plaque deposition. <i>Alzheimer's and Dementia</i> , 2016, 12, 964-976.	0.8	76

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37	Prolyl endopeptidase is involved in the degradation of neural cell adhesion molecules <i>in vitro</i> . <i>Journal of Cell Science</i> , 2016, 129, 3792-3802.	2.0	10
38	Differential transgene expression patterns in Alzheimer mouse models revealed by novel human amyloid precursor protein-specific antibodies. <i>Aging Cell</i> , 2016, 15, 953-963.	6.7	22
39	Protective Properties of Neural Extracellular Matrix. <i>Molecular Neurobiology</i> , 2016, 53, 73-82.	4.0	82
40	The neuronal extracellular matrix restricts distribution and internalization of aggregated Tau-protein. <i>Neuroscience</i> , 2016, 313, 225-235.	2.3	33
41	Effect of brevicin deficiency on neuroplasticity mediating molecules. <i>SpringerPlus</i> , 2015, 4, .	1.2	0
42	Ion exchanger in the brain: Quantitative analysis of perineuronally fixed anionic binding sites suggests diffusion barriers with ion sorting properties. <i>Scientific Reports</i> , 2015, 5, 16471.	3.3	85
43	The extracellular matrix molecule brevicin is an integral component of the machinery mediating fast synaptic transmission at the calyx of Held. <i>Journal of Physiology</i> , 2015, 593, 4341-4360.	2.9	60
44	Perineuronal nets in the auditory system. <i>Hearing Research</i> , 2015, 329, 21-32.	2.0	44
45	Isoglutaminyl cyclase contributes to CCL2-driven neuroinflammation in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2015, 129, 565-583.	7.7	38
46	Early neurone loss in Alzheimer's disease: cortical or subcortical?. <i>Acta Neuropathologica Communications</i> , 2015, 3, 10.	5.2	150
47	L-type Calcium Channel Cav1.2 Is Required for Maintenance of Auditory Brainstem Nuclei. <i>Journal of Biological Chemistry</i> , 2015, 290, 23692-23710.	3.4	17
48	ECM in brain aging and dementia. <i>Progress in Brain Research</i> , 2014, 214, 207-227.	1.4	69
49	Aggrecan, link protein and tenascin-R are essential components of the perineuronal net to protect neurons against iron-induced oxidative stress. <i>Cell Death and Disease</i> , 2014, 5, e1119-e1119.	6.3	129
50	Tenascin-R promotes assembly of the extracellular matrix of perineuronal nets via clustering of aggrecan. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20140046.	4.0	80
51	Myelin and iron concentration in the human brain: A quantitative study of MRI contrast. <i>NeuroImage</i> , 2014, 93, 95-106.	4.2	528
52	Tissue transglutaminase in Alzheimer's disease – facts and fiction: a reply to “Tissue transglutaminase is a biochemical marker for Alzheimer's disease”. <i>Neurobiology of Aging</i> , 2014, 35, e5-e9.	3.1	50
53	Changes of several brain receptor complexes in the cerebral cortex of patients with Alzheimer disease: probable new potential pharmaceutical targets. <i>Amino Acids</i> , 2014, 46, 223-233.	2.7	5
54	Mouse strain and brain region-specific expression of the glutaminyl cyclases QC and isoQC. <i>International Journal of Developmental Neuroscience</i> , 2014, 36, 64-73.	1.6	13

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55	Glutamyl Cyclase in Human Cortex: Correlation with (pGlu)-Amyloid- β^2 Load and Cognitive Decline in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2014, 39, 385-400.	2.6	90
56	Tissue transglutaminase is not a biochemical marker for Alzheimer's disease. <i>Neurobiology of Aging</i> , 2013, 34, 2495-2498.	3.1	15
57	Neurochemical mapping of the human hippocampus reveals perisynaptic matrix around functional synapses in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2013, 125, 215-229.	7.7	76
58	Cellular and ultra structural evidence for cytoskeletal localization of prolyl endopeptidase-like protein in neurons. <i>Neuroscience</i> , 2013, 242, 128-139.	2.3	13
59	Perineuronal and perisynaptic extracellular matrix in the human spinal cord. <i>Neuroscience</i> , 2013, 238, 168-184.	2.3	40
60	Unique features of extracellular matrix in the mouse medial nucleus of trapezoid body – Implications for physiological functions. <i>Neuroscience</i> , 2013, 228, 215-234.	2.3	51
61	Changes in neuronal DNA content variation in the human brain during aging. <i>Aging Cell</i> , 2012, 11, 628-633.	6.7	62
62	Aggrecan: Beyond cartilage and into the brain. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 690-693.	2.8	113
63	Involvement of Perineuronal and Perisynaptic Extracellular Matrix in Alzheimer's Disease Neuropathology. <i>Brain Pathology</i> , 2012, 22, 547-561.	4.1	124
64	Perisynaptic aggrecan-based extracellular matrix coats in the human lateral geniculate body devoid of perineuronal nets. <i>Journal of Neuroscience Research</i> , 2012, 90, 376-387.	2.9	25
65	Neuroprotection against iron-induced cell death by perineuronal nets - an in vivo analysis of oxidative stress. <i>American Journal of Neurodegenerative Disease</i> , 2012, 1, 122-9.	0.1	51
66	The human ubiquitin C promoter drives selective expression in principal neurons in the brain of a transgenic mouse line. <i>Neurochemistry International</i> , 2011, 59, 976-980.	3.8	5
67	Role of Prolyl Endopeptidase in Intracellular Transport and Protein Secretion. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011, 10, 327-332.	1.4	12
68	Prolyl Oligopeptidase: A Rising Star on the Stage of Neuroinflammation Research. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011, 10, 340-348.	1.4	38
69	Glutamyl cyclase contributes to the formation of focal and diffuse pyroglutamate (pGlu)- $A\beta^2$ deposits in hippocampus via distinct cellular mechanisms. <i>Acta Neuropathologica</i> , 2011, 121, 705-719.	7.7	52
70	On the quantification of intracellular proteins in multicolor fluorescence-labeled rat brain slices using slide-based cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 485-491.	1.5	7
71	Distinct glutamyl cyclase expression in Edinger-Westphal nucleus, locus coeruleus and nucleus basalis Meynert contributes to pGlu- $A\beta^2$ pathology in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2010, 120, 195-207.	7.7	29
72	Distribution and classification of aggrecan-based extracellular matrix in the thalamus of the rat. <i>Journal of Neuroscience Research</i> , 2010, 88, 3257-3266.	2.9	17

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73	Trace element mapping in Parkinsonian brain by quantitative ion beam microscopy. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2156-2159.	1.4	12
74	GAP43 shows partial co-localisation but no strong physical interaction with prolyl oligopeptidase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 2162-2176.	2.3	20
75	[P1.69]: Subcellular localization of PREP and PREPL in neuronal cells suggests functions in intracellular transport and protein secretion. International Journal of Developmental Neuroscience, 2010, 28, 678-678.	1.6	0
76	Chondroitin sulphate proteoglycan-based perineuronal net establishment is largely activity-independent in chick visual system. Journal of Chemical Neuroanatomy, 2010, 40, 243-247.	2.1	15
77	Perineuronal nets are largely unaffected in Alzheimer model Tg2576 mice. Neurobiology of Aging, 2010, 31, 1254-1256.	3.1	38
78	Aggrecan-based extracellular matrix shows unique cortical features and conserved subcortical principles of mammalian brain organization in the Madagascan lesser hedgehog tenrec (Echinops) Tj ETQq0 0 0 rgBT4 Overlook 10 Tf 50		
79	Neurons associated with aggrecan-based perineuronal nets are protected against tau pathology in subcortical regions in Alzheimer's disease. Neuroscience, 2010, 169, 1347-1363.	2.3	132
80	Perineuronal net formation and structure in aggrecan knockout mice. Neuroscience, 2010, 170, 1314-1327.	2.3	175
81	Neuronal Aneuploidy in Health and Disease:A Cytomic Approach to Understand the Molecular Individuality of Neurons. International Journal of Molecular Sciences, 2009, 10, 1609-1627.	4.1	41
82	Chondroitin sulfate proteoglycan-based extracellular matrix in chicken (Gallus domesticus) brain. Brain Research, 2009, 1275, 10-23.	2.2	25
83	Aggrecan-based extracellular matrix is an integral part of the human basal ganglia circuit. Neuroscience, 2008, 151, 489-504.	2.3	83
84	Aneuploidy and DNA Replication in the Normal Human Brain and Alzheimer's Disease. Journal of Neuroscience, 2007, 27, 6859-6867.	3.6	236
85	Intracellular iron concentration of neurons with and without perineuronal nets. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 153-158.	1.4	38
86	High resolution quantitative element mapping of neuromelanin-containing neurons. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 227-230.	1.4	12
87	Organization of brain extracellular matrix in the Chilean fat-tailed mouse opossum Thylamys elegans (Waterhouse, 1839). Journal of Chemical Neuroanatomy, 2006, 32, 143-158.	2.1	7
88	Cellular distribution and localisation of iron in adult rat brain (substantia nigra). Nuclear Instruments & Methods in Physics Research B, 2006, 249, 688-691.	1.4	7
89	Quantitative trace element analysis with sub-micron lateral resolution. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 734-737.	1.4	15
90	Morphological and elemental characterisation with the high-energy ion-nanoprobe LIPSION. Applied Surface Science, 2005, 252, 43-48.	6.1	8

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91	Determination of trace elements in the human substantia nigra. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 224-228.	1.4	31
92	Antibody meets the microbeam " or how to find neurofibrillary tangles. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 229-233.	1.4	11
93	The Binding of Iron to Perineuronal Nets: A Combined Nuclear Microscopy and Mössbauer Study. Hyperfine Interactions, 2005, 159, 285-291.	0.5	11
94	Perineuronal nets potentially protect against oxidative stress. Experimental Neurology, 2004, 188, 309-315.	4.1	199
95	Quantitative microanalysis of perineuronal nets in brain tissue. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 395-400.	1.4	31
96	Perineuronal Nets in the Superior Olivary Complex. , 0, , 421-444.		3