

Susann Boretius

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

5,107
citations

136950

32
h-index

91884

69
g-index

82
all docs

82
docs citations

82
times ranked

8627
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycolytic oligodendrocytes maintain myelin and long-term axonal integrity. <i>Nature</i> , 2012, 485, 517-521.	27.8	1,120
2	Reduced social interaction and ultrasonic communication in a mouse model of monogenic heritable autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1710-1715.	7.1	489
3	Neuroigin-3-deficient mice: model of a monogenic heritable form of autism with an olfactory deficit. <i>Genes, Brain and Behavior</i> , 2009, 8, 416-425.	2.2	315
4	Elevated Phosphatidylinositol 3,4,5-Trisphosphate in Glia Triggers Cell-Autonomous Membrane Wrapping and Myelination. <i>Journal of Neuroscience</i> , 2010, 30, 8953-8964.	3.6	293
5	Chromatin Regulation by BAF170 Controls Cerebral Cortical Size and Thickness. <i>Developmental Cell</i> , 2013, 25, 256-269.	7.0	149
6	Model-based nonlinear inverse reconstruction for T2 mapping using highly undersampled spin-echo MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 420-428.	3.4	125
7	IL-6 trans-signaling is essential for the development of hepatocellular carcinoma in mice. <i>Hepatology</i> , 2017, 65, 89-103.	7.3	125
8	High-resolution 3D MRI of mouse brain reveals small cerebral structures in vivo. <i>Journal of Neuroscience Methods</i> , 2002, 120, 203-209.	2.5	115
9	In vivo 3D MRI staining of mouse brain after subcutaneous application of MnCl ₂ . <i>Magnetic Resonance in Medicine</i> , 2002, 48, 852-859.	3.0	111
10	Photoswitchable Magnetic Resonance Imaging Contrast by Improved Light-Driven Coordination-Induced Spin State Switch. <i>Journal of the American Chemical Society</i> , 2015, 137, 7552-7555.	13.7	110
11	Assessment of lesion pathology in a new animal model of MS by multiparametric MRI and DTI. <i>NeuroImage</i> , 2012, 59, 2678-2688.	4.2	108
12	A myelin gene causative of a catatonia-depression syndrome upon aging. <i>EMBO Molecular Medicine</i> , 2012, 4, 528-539.	6.9	108
13	Respiration-Deficient Astrocytes Survive As Glycolytic Cells <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2017, 37, 4231-4242.	3.6	97
14	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020, 105, 600-603.	8.1	92
15	Microglia ablation alleviates myelin-associated catatonic signs in mice. <i>Journal of Clinical Investigation</i> , 2017, 128, 734-745.	8.2	88
16	Revisiting adult neurogenesis and the role of erythropoietin for neuronal and oligodendroglial differentiation in the hippocampus. <i>Molecular Psychiatry</i> , 2016, 21, 1752-1767.	7.9	86
17	Global brain atrophy after unilateral parietal lesion and its prevention by erythropoietin. <i>Brain</i> , 2006, 129, 480-489.	7.6	83
18	Multicontrast MRI of remyelination in the central nervous system. <i>NMR in Biomedicine</i> , 2005, 18, 395-403.	2.8	81

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19	Dysregulated Expression of Neuregulin-1 by Cortical Pyramidal Neurons Disrupts Synaptic Plasticity. <i>Cell Reports</i> , 2014, 8, 1130-1145.	6.4	81
20	In vivo 3D MRI staining of the mouse hippocampal system using intracerebral injection of MnCl ₂ . <i>NeuroImage</i> , 2004, 22, 860-867.	4.2	73
21	Halogenated volatile anesthetics alter brain metabolism as revealed by proton magnetic resonance spectroscopy of mice in vivo. <i>NeuroImage</i> , 2013, 69, 244-255.	4.2	63
22	Uncoupling the widespread occurrence of anti-NMDAR1 autoantibodies from neuropsychiatric disease in a novel autoimmune model. <i>Molecular Psychiatry</i> , 2019, 24, 1489-1501.	7.9	63
23	Cortical network dysfunction caused by a subtle defect of myelination. <i>Glia</i> , 2016, 64, 2025-2040.	4.9	62
24	MRI of cellular layers in mouse brain in vivo. <i>NeuroImage</i> , 2009, 47, 1252-1260.	4.2	56
25	Localized proton MRS of cerebral metabolite profiles in different mouse strains. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 822-827.	3.0	51
26	Coordination-Induced Spin-State-Switch (CISS) in water. <i>Chemical Communications</i> , 2014, 50, 12476-12478.	4.1	48
27	Early MRI changes in a mouse model of multiple sclerosis are predictive of severe inflammatory tissue damage. <i>Brain</i> , 2007, 130, 2186-2198.	7.6	47
28	Haploinsufficiency of the murine polycomb gene <i>Suz12</i> results in diverse malformations of the brain and neural tube. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 412-418.	2.4	44
29	Role of α -type voltage-dependent calcium channels in autoimmune optic neuritis. <i>Annals of Neurology</i> , 2009, 66, 81-93.	5.3	42
30	MRI of optic neuritis in a rat model. <i>NeuroImage</i> , 2008, 41, 323-334.	4.2	38
31	Erythropoietin Attenuates Neurological and Histological Consequences of Toxic Demyelination in Mice. <i>Molecular Medicine</i> , 2012, 18, 628-635.	4.4	38
32	TRAIL-R2 promotes skeletal metastasis in a breast cancer xenograft mouse model. <i>Oncotarget</i> , 2015, 6, 9502-9516.	1.8	38
33	Monitoring of EAE onset and progression in the common marmoset monkey by sequential high-resolution 3D MRI. <i>NMR in Biomedicine</i> , 2006, 19, 41-49.	2.8	32
34	Multimodal [GdO] ⁺ [ICG] ⁺ Nanoparticles for Optical, Photoacoustic, and Magnetic Resonance Imaging. <i>Chemistry of Materials</i> , 2017, 29, 3547-3554.	6.7	32
35	Sexual dimorphism of AMBRA1-related autistic features in human and mouse. <i>Translational Psychiatry</i> , 2017, 7, e1247-e1247.	4.8	32
36	Temporal stability of fMRI in medetomidine-anesthetized rats. <i>Scientific Reports</i> , 2019, 9, 16673.	3.3	32

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37	In Vivo MRI of Altered Brain Anatomy and Fiber Connectivity in Adult Pax6 Deficient Mice. <i>Cerebral Cortex</i> , 2009, 19, 2838-2847.	2.9	30
38	Magnetization transfer MRI of mouse brain reveals areas of high neural density. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1113-1120.	1.8	29
39	The novel TRAIL-receptor agonist APG350 exerts superior therapeutic activity in pancreatic cancer cells. <i>Cell Death and Disease</i> , 2018, 9, 445.	6.3	29
40	<i>Complexin2</i> null mutation requires a "second hit" for induction of phenotypic changes relevant to schizophrenia. <i>Genes, Brain and Behavior</i> , 2010, 9, 592-602.	2.2	27
41	Autoimmune Optic Neuritis in the Common Marmoset Monkey: Comparison of Visual Evoked Potentials with MRI and Histopathology. , 2008, 49, 3707.		24
42	Mapping of the habenulo-interpeduncular pathway in living mice using manganese-enhanced 3D MRI. <i>Magnetic Resonance Imaging</i> , 2006, 24, 209-215.	1.8	23
43	Manganese-enhanced 3D MRI of established and disrupted synaptic activity in the developing insect brain in vivo. <i>Journal of Neuroscience Methods</i> , 2006, 158, 50-55.	2.5	22
44	The function of glutamatergic synapses is not perturbed by severe knockdown of 4.1N and 4.1G expression. <i>Journal of Cell Science</i> , 2009, 122, 735-744.	2.0	22
45	Localized proton MRS of animal brain in vivo: Models of human disorders. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 1-34.	7.5	22
46	Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. <i>Neuron</i> , 2022, 110, 16-20.	8.1	22
47	Chromium(VI) as a novel MRI contrast agent for cerebral white matter: Preliminary results in mouse brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1-6.	3.0	21
48	High-field diffusion tensor imaging of mouse brain in vivo using single-shot STEAM MRI. <i>Journal of Neuroscience Methods</i> , 2007, 161, 112-117.	2.5	20
49	In vivo 3D MRI of insect brain: cerebral development during metamorphosis of <i>Manduca sexta</i> . <i>NeuroImage</i> , 2005, 24, 596-602.	4.2	19
50	Genetically induced brain inflammation by <i>Cnp</i> deletion transiently benefits from microglia depletion. <i>FASEB Journal</i> , 2019, 33, 8634-8647.	0.5	19
51	Manganese-Enhanced Magnetic Resonance Imaging. <i>Methods in Molecular Biology</i> , 2011, 771, 531-568.	0.9	18
52	Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 5311-5321.	6.7	17
53	Compatibility of glass-guided recording microelectrodes in the brain stem of squirrel monkeys with high-resolution 3D MRI. <i>Journal of Neuroscience Methods</i> , 2006, 153, 221-229.	2.5	16
54	Interferon-driven brain phenotype in a mouse model of RNaseT2 deficient leukoencephalopathy. <i>Nature Communications</i> , 2021, 12, 6530.	12.8	16

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55	Whatâ€™s in this crab? MRI providing high-resolution three-dimensional insights into recent finds and historical collections of Brachyura. <i>Zoology</i> , 2017, 121, 1-9.	1.2	15
56	Lack of astrocytes hinders parenchymal oligodendrocyte precursor cells from reaching a myelinating state in osmolyte-induced demyelination. <i>Acta Neuropathologica Communications</i> , 2020, 8, 224.	5.2	14
57	In vivo diffusion tensor mapping of the brain of squirrel monkey, rat, and mouse using single-shot STEAM MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 17, 339-347.	2.0	13
58	Ever more complex: a new type of organization of reproductive organs in female <i>Dorippe sinica</i> Chen, 1980 (Decapoda: Brachyura: Dorippidae). <i>Zoology</i> , 2016, 119, 455-463.	1.2	13
59	Alterations of the Blood-Brain Barrier and Regional Perfusion in Tumor Development: MRI Insights from a Rat C6 Glioma Model. <i>PLoS ONE</i> , 2016, 11, e0168174.	2.5	11
60	Multimodal Targeted Nanoparticle-Based Delivery System for Pancreatic Tumor Imaging in Cellular and Animal Models. <i>Current Pharmaceutical Design</i> , 2022, 28, 313-323.	1.9	10
61	Progressive axonopathy when oligodendrocytes lack the myelin protein CMTM5. <i>ELife</i> , 2022, 11, .	6.0	9
62	Highly selective organ distribution and cellular uptake of inorganic-organic hybrid nanoparticles customized for the targeted delivery of glucocorticoids. <i>Journal of Controlled Release</i> , 2020, 319, 360-370.	9.9	8
63	Spatial signatures of anesthesia-induced burst-suppression differ between primates and rodents. <i>ELife</i> , 0, 11, .	6.0	8
64	Intrauterine hyperexposure to dexamethasone of the common marmoset monkey revealed normal cerebral metabolite concentrations in adulthood as assessed by quantitative proton magnetic resonance spectroscopy <i>in vivo</i> . <i>Journal of Medical Primatology</i> , 2009, 38, 213-218.	0.6	7
65	Cardiac MRI in common marmosets revealing age-dependency of cardiac function. <i>Scientific Reports</i> , 2020, 10, 10221.	3.3	6
66	Increased Callosal Connectivity in Reeler Mice Revealed by Brain-Wide Input Mapping of VIP Neurons in Barrel Cortex. <i>Cerebral Cortex</i> , 2021, 31, 1427-1443.	2.9	5
67	Comparison of cine and real-time cardiac MRI in rhesus macaques. <i>Scientific Reports</i> , 2021, 11, 10713.	3.3	4
68	A new type of brachyuran seminal receptacle in the masked crab <i>Ethusa mascarone</i> (Brachyura.) <i>Tj ETQq0 0 0 rgBT /Oerlock 10</i>	1.2	3
69	Imperfect magnetic field gradients in radial k-space encodingâ€”Quantification, correction, and parameter dependency. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 962-975.	3.0	3
70	Inducing sterile pyramidal neuronal death in mice to model distinct aspects of gray matter encephalitis. <i>Acta Neuropathologica Communications</i> , 2021, 9, 121.	5.2	3
71	Comparative study of the morphology of the female seminal receptacles of <i>Ilia nucleus</i> and <i>Persephona mediterranea</i> (Decapoda, Brachyura, Leucosiidae). <i>Arthropod Structure and Development</i> , 2017, 46, 274-286.	1.4	2
72	Not only for males: the pleonâ€”holding mechanism in female calappids (Crustacea: Decapoda.) <i>Tj ETQq0 0 0 rgBT /Oerlock 10 Tf 50 62</i>	0.9	0

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73	In-vivo-Bildgebung , 2012, , 143-147.		0