Philipp BÃ¶hm-Sturm

List of Publications by Year
in descending order

41 papers	1,176 citations	393982 19 h-index	395343 33 g-index
43 all docs	43 docs citations	43 times ranked	2138 citing authors

#	Article	IF	Citations
1	Long-Term Connectome Analysis Reveals Reshaping of Visual, Spatial Networks in a Model With Vascular Dementia Features. Stroke, 2022, 53, 1735-1745.	1.0	4
2	The murine ortholog of Kaufman oculocerebrofacial syndrome protein Ube3b regulates synapse number by ubiquitinating Ppp3cc. Molecular Psychiatry, 2021, 26, 1980-1995.	4.1	18
3	The role of spreading depolarizations and electrographic seizures in early injury progression of the rat photothrombosis stroke model. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 413-430.	2.4	20
4	Phenotyping placental oxygenation in Lgals1 deficient mice using 19F MRI. Scientific Reports, 2021, 11, 2126.	1.6	4
5	Microglia as target for anti-inflammatory approaches to prevent secondary brain injury after subarachnoid hemorrhage (SAH). Journal of Neuroinflammation, 2021, 18, 36.	3.1	53
6	Fluorine (19F) MRI for Assessing Inflammatory Cells in the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 495-507.	0.4	1
7	The Effects of Selective Inhibition of Histone Deacetylase 1 and 3 in Huntingtonâ€™s Disease Mice. Frontiers in Molecular Neuroscience, 2021, 14, 616886.	1.4	14
8	Magnetic resonance imaging-based changes in vascular morphology and cerebral perfusion in subacute ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2617-2627.	2.4	5
9	Contribution of Tissue Inflammation and Blood-Brain Barrier Disruption to Brain Softening in a Mouse Model of Multiple Sclerosis. Frontiers in Neuroscience, 2021, 15, 701308.	1.4	12
10	Endovascular Perforation Model for Subarachnoid Hemorrhage Combined with Magnetic Resonance Imaging (MRI). Journal of Visualized Experiments, 2021, , .	0.2	0
11	Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. Journal of Experimental Medicine, 2021, 218, .	4.2	19
12	A Semiquantitative Non-invasive Measurement of PcomA Patency in C57BL/6 Mice Explains Variance in Ischemic Brain Damage in Filament MCAo. Frontiers in Neuroscience, 2020, 14, 576741.	1.4	6
13	Seasonal plasticity in the adult somatosensory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32136-32144.	3.3	14
14	Galectin-3 deficiency in pregnancy increases the risk of fetal growth restriction (FGR) via placental insufficiency. Cell Death and Disease, 2020, 11, 560.	2.7	28
15	Quantitative Multi-Parameter Mapping Optimized for the Clinical Routine. Frontiers in Neuroscience, 2020, 14, 611194.	1.4	19
16	Human gestational Nâ€methylâ€<scp>d</scp>â€aspartate receptor autoantibodies impair neonatal murine brain function. Annals of Neurology, 2019, 86, 656-670.	2.8	51
17	The influence of body temperature on tissue stiffness, blood perfusion, and water diffusion in the mouse brain. Acta Biomaterialia, 2019, 96, 412-420.	4.1	13
18	Brain maturation is associated with increasing tissue stiffness and decreasing tissue fluidity. Acta Biomaterialia, 2019, 99, 433-442.	4.1	55

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19	Special issue on fluorine-19 magnetic resonance: technical solutions, research promises and frontier applications. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 1-3.	1.1	7
20	Longitudinal 19F magnetic resonance imaging of brain oxygenation in a mouse model of vascular cognitive impairment using a cryogenic radiofrequency coil. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 105-114.	1.1	7
21	Atlas registration for edema-corrected MRI lesion volume in mouse stroke models. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 313-323.	2.4	52
22	MR Elastography-Based Assessment of Matrix Remodeling at Lesion Sites Associated With Clinical Severity in a Model of Multiple Sclerosis. Frontiers in Neurology, 2019, 10, 1382.	1.1	12
23	Low-Molecular-Weight Iron Chelates May Be an Alternative to Gadolinium-based Contrast Agents for T1-weighted Contrast-enhanced MR Imaging. Radiology, 2018, 286, 537-546.	3.6	72
24	Very small superparamagnetic iron oxide nanoparticles: Long-term fate and metabolic processing in atherosclerotic mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2575-2586.	1.7	29
25	On the Usage of Brain Atlases in Neuroimaging Research. Molecular Imaging and Biology, 2018, 20, 742-749.	1.3	28
26	Neuroimaging Biomarkers Predict Brain Structural Connectivity Change in a Mouse Model of Vascular Cognitive Impairment. Stroke, 2017, 48, 468-475.	1.0	21
27	Increased homocysteine levels impair reference memory and reduce cortical levels of acetylcholine in a mouse model of vascular cognitive impairment. Behavioural Brain Research, 2017, 321, 201-208.	1.2	28
28	Enhanced Fluorine-19 MRI Sensitivity using a Cryogenic Radiofrequency Probe: Technical Developments and Ex Vivo Demonstration in a Mouse Model of Neuroinflammation. Scientific Reports, 2017, 7, 9808.	1.6	34
29	Stage 1 Registered Report: Effect of deficient phagocytosis on neuronal survival and neurological outcome after temporary middle cerebral artery occlusion (tMCAo). F1000Research, 2017, 6, 1827.	0.8	6
30	Uptake of citrate-coated iron oxide nanoparticles into atherosclerotic lesions in mice occurs via accelerated transcytosis through plaque endothelial cells. Nano Research, 2016, 9, 3437-3452.	5.8	18
31	Chapter 10 Neural Stem Cells. , 2016, , 283-310.		0
32	Elevated levels of plasma homocysteine, deficiencies in dietary folic acid and uracilâ€“DNA glycosylase impair learning in a mouse model of vascular cognitive impairment. Behavioural Brain Research, 2015, 283, 215-226.	1.2	31
33	Imaging Early Endothelial Inflammation Following Stroke by Core Shell Silica Superparamagnetic Glyconanoparticles That Target Selectin. Nano Letters, 2014, 14, 2130-2134.	4.5	67
34	Dualâ€Frequency Calciumâ€Responsive MRI Agents. Chemistry - A European Journal, 2014, 20, 7351-7362.	1.7	44
35	A multi-modality platform to image stem cell graft survival in the naÃ¯ve and stroke-damaged mouse brain. Biomaterials, 2014, 35, 2218-2226.	5.7	47
36	Non-invasive imaging of glioma vessel size and densities in correlation with tumour cell proliferation by small animal PET and MRI. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 1595-1606.	3.3	15

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37	Vascular changes after stroke in the rat: a longitudinal study using optimized magnetic resonance imaging. Contrast Media and Molecular Imaging, 2013, 8, 383-392.	0.4	21
38	Labeling cells for inÂvivo tracking using 19F MRI. Biomaterials, 2012, 33, 8830-8840.	5.7	126
39	Spatio-temporal dynamics, differentiation and viability of human neural stem cells after implantation into neonatal rat brain. European Journal of Neuroscience, 2011, 34, 382-393.	1.2	38
40	In-Vivo Visualization of Tumor Microvessel Density and Response to Anti-Angiogenic Treatment by High Resolution MRI in Mice. PLoS ONE, 2011, 6, e19592.	1.1	29
41	In Vivo Tracking of Human Neural Stem Cells with 19F Magnetic Resonance Imaging. PLoS ONE, 2011, 6, e29040.	1.1	107