

# Philipp BÃ¶hm-Sturm

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1809981/publications.pdf>

Version: 2024-02-01

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	Labeling cells for in vivo tracking using 19F MRI. <i>Biomaterials</i> , 2012, 33, 8830-8840.	5.7	126
2	In Vivo Tracking of Human Neural Stem Cells with 19F Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2011, 6, e29040.	1.1	107
3	Low-Molecular-Weight Iron Chelates May Be an Alternative to Gadolinium-based Contrast Agents for T1-weighted Contrast-enhanced MR Imaging. <i>Radiology</i> , 2018, 286, 537-546.	3.6	72
4	Imaging Early Endothelial Inflammation Following Stroke by Core Shell Silica Superparamagnetic Glyconanoparticles That Target Selectin. <i>Nano Letters</i> , 2014, 14, 2130-2134.	4.5	67
5	Brain maturation is associated with increasing tissue stiffness and decreasing tissue fluidity. <i>Acta Biomaterialia</i> , 2019, 99, 433-442.	4.1	55
6	Microglia as target for anti-inflammatory approaches to prevent secondary brain injury after subarachnoid hemorrhage (SAH). <i>Journal of Neuroinflammation</i> , 2021, 18, 36.	3.1	53
7	Atlas registration for edema-corrected MRI lesion volume in mouse stroke models. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 313-323.	2.4	52
8	Human gestational anti-methylated caspate receptor autoantibodies impair neonatal murine brain function. <i>Annals of Neurology</i> , 2019, 86, 656-670.	2.8	51
9	A multi-modality platform to image stem cell graft survival in the naïve and stroke-damaged mouse brain. <i>Biomaterials</i> , 2014, 35, 2218-2226.	5.7	47
10	Dual-Frequency Calcium-Responsive MRI Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 7351-7362.	1.7	44
11	Spatio-temporal dynamics, differentiation and viability of human neural stem cells after implantation into neonatal rat brain. <i>European Journal of Neuroscience</i> , 2011, 34, 382-393.	1.2	38
12	Enhanced Fluorine-19 MRI Sensitivity using a Cryogenic Radiofrequency Probe: Technical Developments and Ex Vivo Demonstration in a Mouse Model of Neuroinflammation. <i>Scientific Reports</i> , 2017, 7, 9808.	1.6	34
13	Elevated levels of plasma homocysteine, deficiencies in dietary folic acid and uracil-DNA glycosylase impair learning in a mouse model of vascular cognitive impairment. <i>Behavioural Brain Research</i> , 2015, 283, 215-226.	1.2	31
14	Very small superparamagnetic iron oxide nanoparticles: Long-term fate and metabolic processing in atherosclerotic mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2575-2586.	1.7	29
15	In-Vivo Visualization of Tumor Microvessel Density and Response to Anti-Angiogenic Treatment by High Resolution MRI in Mice. <i>PLoS ONE</i> , 2011, 6, e19592.	1.1	29
16	Increased homocysteine levels impair reference memory and reduce cortical levels of acetylcholine in a mouse model of vascular cognitive impairment. <i>Behavioural Brain Research</i> , 2017, 321, 201-208.	1.2	28
17	On the Usage of Brain Atlases in Neuroimaging Research. <i>Molecular Imaging and Biology</i> , 2018, 20, 742-749.	1.3	28
18	Galectin-3 deficiency in pregnancy increases the risk of fetal growth restriction (FGR) via placental insufficiency. <i>Cell Death and Disease</i> , 2020, 11, 560.	2.7	28

#	ARTICLE	IF	CITATIONS
19	Vascular changes after stroke in the rat: a longitudinal study using optimized magnetic resonance imaging. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 383-392.	0.4	21
20	Neuroimaging Biomarkers Predict Brain Structural Connectivity Change in a Mouse Model of Vascular Cognitive Impairment. <i>Stroke</i> , 2017, 48, 468-475.	1.0	21
21	The role of spreading depolarizations and electrographic seizures in early injury progression of the rat photothrombosis stroke model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 413-430.	2.4	20
22	Quantitative Multi-Parameter Mapping Optimized for the Clinical Routine. <i>Frontiers in Neuroscience</i> , 2020, 14, 611194.	1.4	19
23	Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	19
24	Uptake of citrate-coated iron oxide nanoparticles into atherosclerotic lesions in mice occurs via accelerated transcytosis through plaque endothelial cells. <i>Nano Research</i> , 2016, 9, 3437-3452.	5.8	18
25	The murine ortholog of Kaufman oculocerebrofacial syndrome protein Ube3b regulates synapse number by ubiquitinating Ppp3cc. <i>Molecular Psychiatry</i> , 2021, 26, 1980-1995.	4.1	18
26	Non-invasive imaging of glioma vessel size and densities in correlation with tumour cell proliferation by small animal PET and MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 1595-1606.	3.3	15
27	Seasonal plasticity in the adult somatosensory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32136-32144.	3.3	14
28	The Effects of Selective Inhibition of Histone Deacetylase 1 and 3 in Huntington's Disease Mice. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 616886.	1.4	14
29	The influence of body temperature on tissue stiffness, blood perfusion, and water diffusion in the mouse brain. <i>Acta Biomaterialia</i> , 2019, 96, 412-420.	4.1	13
30	Contribution of Tissue Inflammation and Blood-Brain Barrier Disruption to Brain Softening in a Mouse Model of Multiple Sclerosis. <i>Frontiers in Neuroscience</i> , 2021, 15, 701308.	1.4	12
31	MR Elastography-Based Assessment of Matrix Remodeling at Lesion Sites Associated With Clinical Severity in a Model of Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2019, 10, 1382.	1.1	12
32	Special issue on fluorine-19 magnetic resonance: technical solutions, research promises and frontier applications. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 1-3.	1.1	7
33	Longitudinal 19F magnetic resonance imaging of brain oxygenation in a mouse model of vascular cognitive impairment using a cryogenic radiofrequency coil. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 105-114.	1.1	7
34	A Semiquantitative Non-invasive Measurement of PcomA Patency in C57BL/6 Mice Explains Variance in Ischemic Brain Damage in Filament MCAo. <i>Frontiers in Neuroscience</i> , 2020, 14, 576741.	1.4	6
35	Stage 1 Registered Report: Effect of deficient phagocytosis on neuronal survival and neurological outcome after temporary middle cerebral artery occlusion (tMCAo). <i>F1000Research</i> , 2017, 6, 1827.	0.8	6
36	Magnetic resonance imaging-based changes in vascular morphology and cerebral perfusion in subacute ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2617-2627.	2.4	5

#	ARTICLE	IF	CITATIONS
37	Phenotyping placental oxygenation in Lgals1 deficient mice using 19F MRI. Scientific Reports, 2021, 11, 2126.	1.6	4
38	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
39	Fluorine (19F) MRI for Assessing Inflammatory Cells in the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 495-507.	0.4	1
40	Chapter 10 Neural Stem Cells. , 2016, , 283-310.		0
41	Endovascular Perforation Model for Subarachnoid Hemorrhage Combined with Magnetic Resonance Imaging (MRI). Journal of Visualized Experiments, 2021, , .	0.2	0