

# Philipp BÄhm-Sturm

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,176  
citations

394421

19  
h-index

395702

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.  | 11.4 | 126       |
| 2  | In Vivo Tracking of Human Neural Stem Cells with 19F Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2011, 6, e29040.  | 2.5  | 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.  | 7.3  | 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.   | 9.1  | 67        |
| 5  | Brain maturation is associated with increasing tissue stiffness and decreasing tissue fluidity. <i>Acta Biomaterialia</i> , 2019, 99, 433-442.   | 8.3  | 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.  | 7.2  | 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.   | 4.3  | 52        |
| 8  | Human gestational anti-methylated caspate receptor autoantibodies impair neonatal murine brain function. <i>Annals of Neurology</i> , 2019, 86, 656-670.   | 5.3  | 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.  | 11.4 | 47        |
| 10 | Dual-Frequency Calcium-Responsive MRI Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 7351-7362.   | 3.3  | 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.                                      | 2.6  | 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.                  | 3.3  | 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. | 2.2  | 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.                        | 3.3  | 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.  | 2.5  | 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.                     | 2.2  | 28        |
| 17 | On the Usage of Brain Atlases in Neuroimaging Research. <i>Molecular Imaging and Biology</i> , 2018, 20, 742-749.  | 2.6  | 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.  | 6.3  | 28        |

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|----|--|------|-----------|
| 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.   | 0.8  | 21        |
| 20 | Neuroimaging Biomarkers Predict Brain Structural Connectivity Change in a Mouse Model of Vascular Cognitive Impairment. <i>Stroke</i> , 2017, 48, 468-475.   | 2.0  | 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.                                     | 4.3  | 20        |
| 22 | Quantitative Multi-Parameter Mapping Optimized for the Clinical Routine. <i>Frontiers in Neuroscience</i> , 2020, 14, 611194.  | 2.8  | 19        |
| 23 | Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. <i>Journal of Experimental Medicine</i> , 2021, 218, .   | 8.5  | 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.  | 10.4 | 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.   | 7.9  | 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.                         | 6.4  | 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.  | 7.1  | 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.  | 2.9  | 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.   | 8.3  | 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.   | 2.8  | 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.  | 2.4  | 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.  | 2.0  | 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. | 2.0  | 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.   | 2.8  | 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.  | 1.6  | 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.  | 4.3  | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Phenotyping placental oxygenation in Lgals1 deficient mice using 19F MRI. Scientific Reports, 2021, 11, 2126.   | 3.3 | 4         |
| 38 | Long-Term Connectome Analysis Reveals Reshaping of Visual, Spatial Networks in a Model With Vascular Dementia Features. Stroke, 2022, 53, 1735-1745.    | 2.0 | 4         |
| 39 | Fluorine (19F) MRI for Assessing Inflammatory Cells in the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 495-507.            | 0.9 | 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, , . | 0.3 | 0         |