

# Andreas Pohlmann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6497624/publications.pdf>

Version: 2024-02-01

68  
papers

1,468  
citations

361413

20  
h-index

361022

35  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2325  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Toll-like receptor 2 mediates microglia/brain macrophage MT1-MMP expression and glioma expansion. <i>Neuro-Oncology</i> , 2013, 15, 1457-1468.  | 1.2 | 115       |
| 2  | How bold is blood oxygenation levelâ€dependent (BOLD) magnetic resonance imaging of the kidney? Opportunities, challenges and future directions. <i>Acta Physiologica</i> , 2015, 213, 19-38.   | 3.8 | 100       |
| 3  | Longitudinal regional brain volume changes quantified in normal aging and Alzheimer's APP <sup>PS1</sup> mice using MRI. <i>Brain Research</i> , 2009, 1270, 19-32.   | 2.2 | 97        |
| 4  | GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. <i>Acta Neuropathologica</i> , 2013, 125, 609-620.  | 7.7 | 97        |
| 5  | Detailing the Relation Between Renal T2* and Renal Tissue pO2 Using an Integrated Approach of Parametric Magnetic Resonance Imaging and Invasive Physiological Measurements. <i>Investigative Radiology</i> , 2014, 49, 547-560.                                  | 6.2 | 64        |
| 6  | Claudin peptidomimetics modulate tissue barriers for enhanced drug delivery. <i>Annals of the New York Academy of Sciences</i> , 2017, 1397, 169-184.   | 3.8 | 58        |
| 7  | Rectal cancer: Assessment of response to neoadjuvant chemoradiation by dynamic contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 119-126.   | 3.4 | 52        |
| 8  | High Temporal Resolution Parametric MRI Monitoring of the Initial Ischemia/Reperfusion Phase in Experimental Acute Kidney Injury. <i>PLoS ONE</i> , 2013, 8, e57411.  | 2.5 | 51        |
| 9  | Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 131-140.                   | 2.0 | 44        |
| 10 | Visualizing Brain Inflammation with a Shingled-Leg Radio-Frequency Head Probe for 19F/1H MRI. <i>Scientific Reports</i> , 2013, 3, 1280.  | 3.3 | 39        |
| 11 | Assessment of tumor microcirculation with dynamic contrastâ€enhanced MRI in patients with esophageal cancer: Initial experience. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1296-1301.  | 3.4 | 37        |
| 12 | Linking nonâ€invasive parametric <sc>MRI</sc> with invasive physiological measurements (<sc>MR</sc>â€<sc>PHYSIOL</sc>): towards a hybrid and integrated approach for investigation of acute kidney injury in rats. <i>Acta Physiologica</i> , 2013, 207, 673-689. | 3.8 | 35        |
| 13 | Advancing Cardiovascular, Neurovascular, and Renal Magnetic Resonance Imaging in Small Rodents Using Cryogenic Radiofrequency Coil Technology. <i>Frontiers in Pharmacology</i> , 2015, 6, 255.   | 3.5 | 35        |
| 14 | 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        |
| 15 | Functional and Morphological Cardiac Magnetic Resonance Imaging of Mice Using a Cryogenic Quadrature Radiofrequency Coil. <i>PLoS ONE</i> , 2012, 7, e42383.  | 2.5 | 32        |
| 16 | Identification of Cellular Infiltrates during Early Stages of Brain Inflammation with Magnetic Resonance Microscopy. <i>PLoS ONE</i> , 2012, 7, e32796.   | 2.5 | 30        |
| 17 | Early effects of an x-ray contrast medium on renal T<sub>2</sub>*/T<sub>2</sub> <sc>MRI</sc> as compared to shortâ€term hyperoxia, hypoxia and aortic occlusion in rats. <i>Acta Physiologica</i> , 2013, 208, 202-213.   | 3.8 | 29        |
| 18 | A synthetic epoxyeicosatrienoic acid analogue prevents the initiation of ischemic acute kidney injury. <i>Acta Physiologica</i> , 2019, 227, e13297.  | 3.8 | 26        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Diffusion-Sensitized Ophthalmic Magnetic Resonance Imaging Free of Geometric Distortion at 3.0 and 7.0 T. <i>Investigative Radiology</i> , 2015, 50, 309-321.  | 6.2 | 24        |
| 20 | Enlargement of Cerebral Ventricles as an Early Indicator of Encephalomyelitis. <i>PLoS ONE</i> , 2013, 8, e72841.  | 2.5 | 22        |
| 21 | Magnetic resonance safety and compatibility of tantalum markers used in proton beam therapy for intraocular tumors: A 7.0 Tesla study. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1533-1546.  | 3.0 | 21        |
| 22 | Myocardial effective transverse relaxation time T2* Correlates with left ventricular wall thickness: A 7.0 T MRI study. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2381-2389.   | 3.0 | 21        |
| 23 | Somatosensory BOLD fMRI reveals close link between salient blood pressure changes and the murine neuromatrix. <i>NeuroImage</i> , 2018, 172, 562-574.  | 4.2 | 21        |
| 24 | MRI of tarantulas: morphological and perfusion imaging. <i>Magnetic Resonance Imaging</i> , 2007, 25, 129-135.   | 1.8 | 19        |
| 25 | Cardiomyocyte-derived CXCL12 is not involved in cardiogenesis but plays a crucial role in myocardial infarction. <i>Journal of Molecular Medicine</i> , 2016, 94, 1005-1014.   | 3.9 | 18        |
| 26 | Assessment of Blood Brain Barrier Leakage with Gadolinium-Enhanced MRI. <i>Methods in Molecular Biology</i> , 2018, 1718, 395-408.   | 0.9 | 18        |
| 27 | Antibodies to the $\beta$ 1-Adrenergic Receptor Cause Vascular Impairments in Rat Brain as Demonstrated by Magnetic Resonance Angiography. <i>PLoS ONE</i> , 2012, 7, e41602.  | 2.5 | 18        |
| 28 | Anatomic and pathological characterization of choroidal melanoma using multimodal imaging. <i>Melanoma Research</i> , 2015, 25, 252-258.   | 1.2 | 17        |
| 29 | Progression and variability of TNBS colitis-associated inflammation in rats assessed by contrast-enhanced and T2-weighted MRI. <i>Inflammatory Bowel Diseases</i> , 2009, 15, 534-545.   | 1.9 | 16        |
| 30 | Fluorine-19 MRI at 21.1T: enhanced spin-lattice relaxation of perfluoro-15-crown-5-ether and sensitivity as demonstrated in ex vivo murine neuroinflammation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 37-49. | 2.0 | 16        |
| 31 | Probing renal blood volume with magnetic resonance imaging. <i>Acta Physiologica</i> , 2020, 228, e13435.  | 3.8 | 16        |
| 32 | Experimental MRI Monitoring of Renal Blood Volume Fraction Variations En Route to Renal Magnetic Resonance Oximetry. <i>Tomography</i> , 2017, 3, 188-200.   | 1.8 | 16        |
| 33 | Anchoring Dipalmitoyl Phosphoethanolamine to Nanoparticles Boosts Cellular Uptake and Fluorine-19 Magnetic Resonance Signal. <i>Scientific Reports</i> , 2015, 5, 8427.  | 3.3 | 15        |
| 34 | Normothermic Mouse Functional MRI of Acute Focal Thermostimulation for Probing Nociception. <i>Scientific Reports</i> , 2016, 6, 17230.  | 3.3 | 15        |
| 35 | Effect of changes in lung volume on acoustic transmission through the human respiratory system. <i>Physiological Measurement</i> , 2001, 22, 233-243.  | 2.1 | 14        |
| 36 | Cerebral blood volume estimation by ferumoxytol-enhanced steady-state MRI at 9.4T reveals microvascular impact of $\beta$ 1-adrenergic receptor antibodies. <i>NMR in Biomedicine</i> , 2014, 27, 1085-1093.   | 2.8 | 14        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Performance of compressed sensing for fluorine-19 magnetic resonance imaging at low signal-to-noise ratio conditions. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 592-608.  | 3.0  | 14        |
| 38 | Transient enlargement of brain ventricles during relapsing-remitting multiple sclerosis and experimental autoimmune encephalomyelitis. <i>JCI Insight</i> , 2020, 5, .  | 5.0  | 13        |
| 39 | Acute effects of ferumoxytol on regulation of renal hemodynamics and oxygenation. <i>Scientific Reports</i> , 2016, 6, 29965.   | 3.3  | 12        |
| 40 | Monitoring Dendritic Cell Migration using $^{19}\text{F}$ / $^1\text{H}$ Magnetic Resonance Imaging. <i>Journal of Visualized Experiments</i> , 2013, , e50251.   | 0.3  | 11        |
| 41 | Continuous diffusion spectrum computation for diffusion-weighted magnetic resonance imaging of the kidney tubule system. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3098-3119.   | 2.0  | 11        |
| 42 | <i>In vivo</i> detection of teriflunomide-derived fluorine signal during neuroinflammation using fluorine MR spectroscopy. <i>Theranostics</i> , 2021, 11, 2490-2504.   | 10.0 | 10        |
| 43 | Magnetic Resonance Imaging (MRI) Analysis of Ischemia/Reperfusion in Experimental Acute Renal Injury. <i>Methods in Molecular Biology</i> , 2016, 1397, 113-127.  | 0.9  | 10        |
| 44 | Assessment of Renal Hemodynamics and Oxygenation by Simultaneous Magnetic Resonance Imaging (MRI) and Quantitative Invasive Physiological Measurements. <i>Methods in Molecular Biology</i> , 2016, 1397, 129-154.  | 0.9  | 9         |
| 45 | ERK1 as a Therapeutic Target for Dendritic Cell Vaccination against High-Grade Gliomas. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 1975-1987.   | 4.1  | 7         |
| 46 | Myocardial Effective Transverse Relaxation Time $T_2^*$ is Elevated in Hypertrophic Cardiomyopathy: A 7.0 T Magnetic Resonance Imaging Study. <i>Scientific Reports</i> , 2018, 8, 3974.  | 3.3  | 7         |
| 47 | Reliable kidney size determination by magnetic resonance imaging in pathophysiological settings. <i>Acta Physiologica</i> , 2021, 233, e13701.  | 3.8  | 7         |
| 48 | Functional Imaging Using Fluorine ( $^{19}\text{F}$ ) MR Methods: Basic Concepts. <i>Methods in Molecular Biology</i> , 2021, 2216, 279-299.  | 0.9  | 6         |
| 49 | Pharmacological fMRI - Challenges in Analysing Drug-Induced Single-Event BOLD Responses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 3411-6.   | 0.5  | 5         |
| 50 | Cardiac MRI in Small Animals. <i>Methods in Molecular Biology</i> , 2018, 1718, 269-284.  | 0.9  | 5         |
| 51 | $B_1$ inhomogeneity correction of RARE MRI with transceive surface radiofrequency probes. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2684-2701.  | 3.0  | 5         |
| 52 | $B_1$ inhomogeneity correction of RARE MRI at low SNR: Quantitative <i>in vivo</i> $^{19}\text{F}$ MRI of mouse neuroinflammation with a cryogenically-cooled transceive surface radiofrequency probe. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1952-1970. | 3.0  | 5         |
| 53 | Diffusion-weighted Renal MRI at 9.4% Tesla Using RARE to Improve Anatomical Integrity. <i>Scientific Reports</i> , 2019, 9, 19723.  | 3.3  | 4         |
| 54 | Monitoring Renal Hemodynamics and Oxygenation by Invasive Probes: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 327-347.   | 0.9  | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Recommendations for Preclinical Renal MRI: A Comprehensive Open-Access Protocol Collection to Improve Training, Reproducibility, and Comparability of Studies. <i>Methods in Molecular Biology</i> , 2021, 2216, 3-23. | 0.9 | 3         |
| 56 | Cardiovascular magnetic resonance detects microvascular dysfunction in a mouse model of hypertrophic cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 63.                               | 3.3 | 3         |
| 57 | Interpretation of functional renal MRI findings: Where physiology and imaging sciences need to talk across domains. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1140-1141.                                | 3.4 | 2         |
| 58 | Cardiorenal sodium MRI in small rodents using a quadrature birdcage volume resonator at 9.4ÅT. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 121-130.                              | 2.0 | 2         |
| 59 | Physiological system analysis of the kidney by highÅtemporalÅresolution monitoring of an oxygenation step response. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 334-345.   | 3.0 | 2         |
| 60 | Tissue optical properties from spatially resolved reflectance: calibration and in vivo application on rat kidney. <i>Proceedings of SPIE</i> , 2017, , .   | 0.8 | 2         |
| 61 | Hardware Considerations for Preclinical Magnetic Resonance of the Kidney. <i>Methods in Molecular Biology</i> , 2021, 2216, 131-155.   | 0.9 | 1         |
| 62 | Fluorine (19F) MRI for Assessing Inflammatory Cells in the Kidney: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 495-507.   | 0.9 | 1         |
| 63 | Subsegmentation of the Kidney in Experimental MR Images Using Morphology-Based Regions-of-Interest or Multiple-Layer Concentric Objects. <i>Methods in Molecular Biology</i> , 2021, 2216, 549-564.                    | 0.9 | 1         |
| 64 | Analysis Protocols for MRI Mapping of the Blood OxygenationÅSensitive Parameters T2* and T2 in the Kidney. <i>Methods in Molecular Biology</i> , 2021, 2216, 591-610.  | 0.9 | 1         |
| 65 | Denosing for Improved Parametric MRI of the Kidney: Protocol for Nonlocal Means Filtering. <i>Methods in Molecular Biology</i> , 2021, 2216, 565-576.  | 0.9 | 1         |
| 66 | Reliable determination of tissue optical properties from spatially resolved reflectance. <i>Proceedings of SPIE</i> , 2017, , .  | 0.8 | 0         |
| 67 | Renal MRI Diffusion: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 419-428.   | 0.9 | 0         |
| 68 | Near Infrared Spectroscopy Setup for Concurrent Spectroscopic, Invasive and MRI Investigations in Rats. , 2018, , .  |     | 0         |