

# Hans-Ju00c3u00b6rg Wittsack

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5186549/publications.pdf>

Version: 2024-02-01

99  
papers

2,721  
citations

159585

30  
h-index

214800

47  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimodal metabolic imaging of cerebral gliomas: positron emission tomography with [18F]fluoroethyl-L-tyrosine and magnetic resonance spectroscopy. <i>Journal of Neurosurgery</i> , 2005, 102, 318-327.	1.6	170
2	Big GABA: Edited MR spectroscopy at 24 research sites. <i>NeuroImage</i> , 2017, 159, 32-45.	4.2	143
3	MR Imaging in Acute Stroke: Diffusion-weighted and Perfusion Imaging Parameters for Predicting Infarct Size. <i>Radiology</i> , 2002, 222, 397-403.	7.3	108
4	Kidney Transplant: Functional Assessment with Diffusion-Tensor MR Imaging at 3T. <i>Radiology</i> , 2013, 266, 218-225.	7.3	100
5	Quantification of renal allograft perfusion using arterial spin labeling MRI: initial results. <i>European Radiology</i> , 2010, 20, 1485-1491.	4.5	82
6	Detection of changed regional cerebral blood flow in mild cognitive impairment and early Alzheimer's dementia by perfusion-weighted magnetic resonance imaging. <i>NeuroImage</i> , 2008, 40, 495-503.	4.2	80
7	Big GABA II: Water-referenced edited MR spectroscopy at 25 research sites. <i>NeuroImage</i> , 2019, 191, 537-548.	4.2	76
8	Statistical evaluation of diffusion-weighted imaging of the human kidney. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 616-622.	3.0	72
9	Ketamine effects on brain function – Simultaneous fMRI/EEG during a visual oddball task. <i>NeuroImage</i> , 2011, 58, 508-525.	4.2	72
10	Diffusion kurtosis imaging of the human kidney: A feasibility study. <i>Magnetic Resonance Imaging</i> , 2014, 32, 413-420.	1.8	62
11	Functional evaluation of transplanted kidneys using arterial spin labeling MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 84-89.	3.4	58
12	Basal Ganglia Metabolite Abnormalities in Minor Motor Disorders Associated With Human Immunodeficiency Virus Type 1. <i>Archives of Neurology</i> , 2001, 58, 1281.	4.5	56
13	Hybrid 18F-FDG PET-MRI of the hand in rheumatoid arthritis: initial results. <i>Clinical Rheumatology</i> , 2011, 30, 1247-1250.	2.2	55
14	Comparison of different mathematical models of diffusion-weighted prostate MR imaging. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1468-1474.	1.8	55
15	The encoding of saccadic eye movements within human posterior parietal cortex. <i>NeuroImage</i> , 2004, 22, 304-314.	4.2	53
16	Feasibility of diffusional kurtosis tensor imaging in prostate MRI for the assessment of prostate cancer: Preliminary results. <i>Magnetic Resonance Imaging</i> , 2014, 32, 880-885.	1.8	52
17	Beta Peak Frequencies at Rest Correlate with Endogenous GABA+/Cr Concentrations in Sensorimotor Cortex Areas. <i>PLoS ONE</i> , 2016, 11, e0156829.	2.5	52
18	Development of brain infarct volume as assessed by magnetic resonance imaging (MRI): Follow-up of diffusion-weighted MRI lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 201-207.	3.4	49

#	ARTICLE	IF	CITATIONS
19	Pilot study of Iopamidol-based quantitative pH imaging on a clinical 3T MR scanner. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 477-485.	2.0	49
20	Temporally Resolved Electrocardiogram-Triggered Diffusion-Weighted Imaging of the Human Kidney. <i>Investigative Radiology</i> , 2012, 47, 226-230.	6.2	46
21	Initial Ischemic Event: Perfusion-weighted MR Imaging and Apparent Diffusion Coefficient for Stroke Evolution. <i>Radiology</i> , 2005, 237, 1020-1028.	7.3	42
22	Molecular imaging of cartilage damage of finger joints in early rheumatoid arthritis with delayed gadolinium-enhanced magnetic resonance imaging. <i>Arthritis and Rheumatism</i> , 2012, 64, 394-399.	6.7	42
23	Brain metabolism in Alzheimer disease and vascular dementia assessed by in vivo proton magnetic resonance spectroscopy. <i>Psychiatry Research - Neuroimaging</i> , 2003, 123, 183-190.	1.8	41
24	Correlation of Biexponential Diffusion Parameters With Arterial Spin-Labeling Perfusion MRI. <i>Investigative Radiology</i> , 2013, 48, 140-144.	6.2	40
25	On the neural networks of empathy: A principal component analysis of an fMRI study. <i>Behavioral and Brain Functions</i> , 2008, 4, 41.	3.3	38
26	Age-dependency of glycosaminoglycan content in lumbar discs: A 3T gageEST study. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1517-1523.	3.4	37
27	Biallelic mutation of human <i>SLC6A6</i> encoding the taurine transporter TAUT is linked to early retinal degeneration. <i>FASEB Journal</i> , 2019, 33, 11507-11527.	0.5	36
28	Impact of blood flow on diffusion coefficients of the human kidney: A time-resolved ECG-triggered diffusion-tensor imaging (DTI) study at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 233-236.	3.4	35
29	Glycosaminoglycan Chemical Exchange Saturation Transfer of Lumbar Intervertebral Discs in Healthy Volunteers. <i>Spine</i> , 2016, 41, 146-152.	2.0	32
30	Cartilage quality in rheumatoid arthritis: comparison of T2* mapping, native T1 mapping, dGEMRIC, $\hat{\rho}R1$ and value of pre-contrast imaging. <i>Skeletal Radiology</i> , 2012, 41, 685-692.	2.0	31
31	Gender, BMI and T2 dependencies of glycosaminoglycan chemical exchange saturation transfer in intervertebral discs. <i>Magnetic Resonance Imaging</i> , 2016, 34, 271-275.	1.8	31
32	Comparison of Multivendor Single-Voxel MR Spectroscopy Data Acquired in Healthy Brain at 26 Sites. <i>Radiology</i> , 2020, 295, 171-180.	7.3	31
33	T2* mapping and delayed gadolinium-enhanced magnetic resonance imaging in cartilage (dGEMRIC) of glenohumeral cartilage in asymptomatic volunteers at 3T. <i>European Radiology</i> , 2013, 23, 1367-1374.	4.5	29
34	Pattern of Cortex and White Matter Involvement in Severe Middle Cerebral Artery Ischemia. <i>Journal of Neuroimaging</i> , 2007, 17, 131-140.	2.0	28
35	Metacarpophalangeal Joints in Rheumatoid Arthritis: Delayed Gadolinium-enhanced MR Imaging of Cartilage—A Feasibility Study. <i>Radiology</i> , 2010, 257, 441-447.	7.3	28
36	Low visual cortex GABA levels in hepatic encephalopathy: links to blood ammonia, critical flicker frequency, and brain osmolytes. <i>Metabolic Brain Disease</i> , 2015, 30, 1429-1438.	2.9	28

#	ARTICLE	IF	CITATIONS
37	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021, 241, 118430.	4.2	28
38	Glycosaminoglycan chemical exchange saturation transfer of lumbar intervertebral discs in patients with spondyloarthritis. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1057-1063.	3.4	27
39	The relation of regional cerebral perfusion and atrophy in mild cognitive impairment (MCI) and early Alzheimer's dementia. <i>Psychiatry Research - Neuroimaging</i> , 2010, 183, 44-51.	1.8	26
40	Diffusion-weighted imaging (DWI) of the spleen in patients with liver cirrhosis and portal hypertension. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1092-1096.	1.8	26
41	Lesion patterns in successful and failed thrombolysis in middle cerebral artery stroke. <i>Neuroradiology</i> , 2009, 51, 865-871.	2.2	24
42	Diffusion-Attenuated MRI Signal of Renal Allografts: Comparison of Two Different Statistical Models. <i>American Journal of Roentgenology</i> , 2011, 196, W701-W705.	2.2	24
43	Bimanual Recoupling by Visual Cueing in Callosal Disconnection. <i>Neurocase</i> , 2004, 10, 316-325.	0.6	22
44	Significance of the perfusion-diffusion mismatch in chronic cerebral ischemia. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 771-778.	3.4	22
45	Improvement of gagCEST imaging in the human lumbar intervertebral disc by motion correction. <i>Skeletal Radiology</i> , 2015, 44, 505-511.	2.0	20
46	Connecting occipital alpha band peak frequency, visual temporal resolution, and occipital GABA levels in healthy participants and hepatic encephalopathy patients. <i>NeuroImage: Clinical</i> , 2018, 20, 347-356.	2.7	20
47	A rapid and reliable semiautomated method for measurement of total abdominal fat volumes using magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2003, 21, 631-636.	1.8	19
48	Partial rescue of the perfusion deficit area by thrombolysis. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 199-205.	3.4	18
49	Failed Recovery from Thrombolysis Is Predicted by the Initial Diffusion Weighted Imaging Lesion. <i>Cerebrovascular Diseases</i> , 2011, 31, 580-587.	1.7	18
50	Voxel-based analyses of magnetization transfer imaging of the brain in hepatic encephalopathy. <i>World Journal of Gastroenterology</i> , 2009, 15, 5157.	3.3	18
51	Biexponential analysis of diffusion-weighted imaging: comparison of three different calculation methods in transplanted kidneys. <i>Acta Radiologica</i> , 2013, 54, 1210-1217.	1.1	16
52	Diffusion tensor imaging in abdominal organs. <i>NMR in Biomedicine</i> , 2017, 30, e3434.	2.8	16
53	MRI identifies biochemical alterations of intervertebral discs in patients with low back pain and radiculopathy. <i>European Radiology</i> , 2019, 29, 6443-6446.	4.5	16
54	Motion correction improves image quality of dGEMRIC in finger joints. <i>European Journal of Radiology</i> , 2011, 80, e427-31.	2.6	15

#	ARTICLE	IF	CITATIONS
55	Biochemical imaging of cervical intervertebral discs with glycosaminoglycan chemical exchange saturation transfer magnetic resonance imaging: feasibility and initial results. <i>Skeletal Radiology</i> , 2016, 45, 79-85.	2.0	15
56	GABAergic Control of Nigrostriatal and Mesolimbic Dopamine in the Rat Brain. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 38.	2.0	15
57	Detection of early cartilage degeneration in the tibiotalar joint using 3 T gagCEST imaging: a feasibility study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 249-260.	2.0	15
58	Spectral diffusion analysis of kidney intravoxel incoherent motion MRI in healthy volunteers and patients with renal pathologies. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3085-3095.	3.0	14
59	Amantadine enhances nigrostriatal and mesolimbic dopamine function in the rat brain in relation to motor and exploratory activity. <i>Pharmacology Biochemistry and Behavior</i> , 2019, 179, 156-170.	2.9	13
60	Feasibility of quantitative susceptibility mapping (QSM) of the human kidney. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 389-397.	2.0	12
61	Comparison of Quantitative and Semiquantitative Dynamic Contrast-Enhanced MRI With Respect to Their Correlation to Delayed Gadolinium-Enhanced MRI of the Cartilage in Patients With Early Rheumatoid Arthritis. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 64-69.	0.9	11
62	Covert hepatic encephalopathy: elevated total glutathione and absence of brain water content changes. <i>Metabolic Brain Disease</i> , 2016, 31, 517-527.	2.9	11
63	Analysis of different phase unwrapping methods to optimize quantitative susceptibility mapping in the abdomen. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2077-2089.	3.0	11
64	Proton exchange in aqueous urea solutions measured by water-exchange (WEX) NMR spectroscopy and chemical exchange saturation transfer (CEST) imaging in vitro. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 935-947.	3.0	11
65	Sodium MRI of human articular cartilage of the wrist: a feasibility study on a clinical 3T MRI scanner. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 241-248.	2.0	11
66	Proton MR spectroscopy of the lumbar spine in patients with glycogen storage disease type Ib. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 757-762.	3.4	10
67	Deep Learning-Based Post-Processing of Real-Time MRI to Assess and Quantify Dynamic Wrist Movement in Health and Disease. <i>Diagnostics</i> , 2021, 11, 1077.	2.6	10
68	Quantitative pulsed CEST-MRI at a clinical 3T MRI system. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 505-516.	2.0	9
69	Improvement of water saturation shift referencing by sequence and analysis optimization to enhance chemical exchange saturation transfer imaging. <i>Magnetic Resonance Imaging</i> , 2016, 34, 771-778.	1.8	8
70	Functional MRI in transplanted kidneys. <i>Abdominal Radiology</i> , 2018, 43, 2615-2624.	2.1	8
71	Comparison of B0 versus B0 and B1 field inhomogeneity correction for glycosaminoglycan chemical exchange saturation transfer imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 645-651.	2.0	8
72	Value of $T_2$ Mapping MRI for Prostate Cancer Detection and Classification. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 413-422.	3.4	8

#	ARTICLE	IF	CITATIONS
73	Motor Recovery as Assessed with Isometric Finger Movements and Perfusion Magnetic Resonance Imaging after Acute Ischemic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2006, 20, 390-397.	2.9	7
74	Dynamic EEG-informed fMRI modeling of the pain matrix using 20-µs root mean square segments. <i>Human Brain Mapping</i> , 2010, 31, 1702-1712.	3.6	7
75	J-edited MRS measures of $\beta$ -aminobutyric acid before and after acute caffeine administration. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2356-2365.	3.0	7
76	Comparison of PGSE and STEAM DTI acquisitions with varying diffusion times for probing anisotropic structures in human kidneys. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1518-1525.	3.0	7
77	Quantification of Sodium Relaxation Times and Concentrations as Surrogates of Proteoglycan Content of Patellar CARTILAGE at 3T MRI. <i>Diagnostics</i> , 2021, 11, 2301.	2.6	7
78	Ammonia-weighted imaging by chemical exchange saturation transfer MRI at 3T. <i>NMR in Biomedicine</i> , 2018, 31, e3947.	2.8	6
79	Dynamic breast MR imaging: is parametric mapping superior to image subtraction in lesion detection?. <i>European Radiology</i> , 2007, 17, 3093-3099.	4.5	5
80	Non-gaussian diffusion evaluation of the human kidney by Pad $\otimes$ exponent model. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 160-167.	3.4	5
81	How words get meaning: The neural processing of novel object names after sensorimotor training. <i>NeuroImage</i> , 2019, 197, 284-294.	4.2	5
82	Chemical exchange saturation transfer imaging in hepatic encephalopathy. <i>NeuroImage: Clinical</i> , 2019, 22, 101743.	2.7	5
83	Assessment of time-resolved renal diffusion parameters over the entire cardiac cycle. <i>Magnetic Resonance Imaging</i> , 2019, 55, 1-6.	1.8	5
84	Analysis of different image-registration algorithms for Fourier decomposition MRI in functional lung imaging. <i>Acta Radiologica</i> , 2021, 62, 875-881.	1.1	5
85	Lorentzian-Corrected Apparent Exchange-Dependent Relaxation (LAREX) $\otimes$ -Plot Analysis: An Adaptation for qCEST in a Multi-Pool System: Comprehensive In Silico, In Situ, and In Vivo Studies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6920.	4.1	5
86	Use of quantitative brain water imaging as concentration reference for J-edited MR spectroscopy of GABA. <i>Magnetic Resonance Imaging</i> , 2016, 34, 1057-1063.	1.8	4
87	Evaluation of Radiographic Contrast-Induced Nephropathy by Functional Diffusion Weighted Imaging. <i>Journal of Clinical Medicine</i> , 2021, 10, 4573.	2.4	4
88	Chemical Exchange Saturation Transfer for Lactate-Weighted Imaging at 3 T MRI: Comprehensive In Silico, In Vitro, In Situ, and In Vivo Evaluations. <i>Tomography</i> , 2022, 8, 1277-1292.	1.8	4
89	Differential effects of D-cycloserine and amantadine on motor behavior and D2/3 receptor binding in the nigrostriatal and mesolimbic system of the adult rat. <i>Scientific Reports</i> , 2019, 9, 16128.	3.3	3
90	In silico GABA+ MEGA-PRESS: Effects of signal-to-noise ratio and linewidth on modeling the 3 ppm GABA+ resonance. <i>NMR in Biomedicine</i> , 2021, 34, e4410.	2.8	3

#	ARTICLE	IF	CITATIONS
91	A Phantom Approach to Interscanner Comparability of Computed Tomographic Brain Perfusion Parameters. <i>Journal of Computer Assisted Tomography</i> , 2012, 36, 732-738.	0.9	2
92	Absolute GABA spectroscopy with MEGA-PRESS and watermapping in sensorimotor and visual cortex and correlation to handedness. <i>European Journal of Medical Research</i> , 2014, 19, .	2.2	2
93	Comparison of glycosaminoglycan chemical exchange saturation transfer using Gaussian-shaped and off-resonant spin-lock radiofrequency pulses in intervertebral disks. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 280-284.	3.0	2
94	Arterial input function for quantitative dynamic contrast-enhanced MRI to diagnose prostate cancer. , 2022, 28, 108-114.		2
95	Two point Dixon-based chemical exchange saturation transfer (CEST) MRI in renal transplant patients on 3AT. <i>Magnetic Resonance Imaging</i> , 2022, 90, 61-69.	1.8	2
96	Serotonergic Modulation of Nigrostriatal and Mesolimbic Dopamine and Motor/Exploratory Behaviors in the Rat. <i>Frontiers in Neuroscience</i> , 2021, 15, 682398.	2.8	1
97	GABAergic and glutamatergic effects on nigrostriatal and mesolimbic dopamine release in the rat. <i>Reviews in the Neurosciences</i> , 2020, 31, 569-588.	2.9	1
98	The 5-HT1A receptor antagonist WAY-100635 decreases motor/exploratory behaviors and nigrostriatal and mesolimbocortical dopamine D2/3 receptor binding in adult rats. <i>Pharmacology Biochemistry and Behavior</i> , 2022, 215, 173363.	2.9	1
99	Magnetresonanztomographie und -spektroskopie. , 2018, , 205-283.		0