Jrgen Hennig

List of Publications by Citations

436 papers	20,515 citations	72 h-index	125 g-index
456 ext. papers	22,875 ext. citations	4.8 avg, IF	6.59 L-index

#	Paper	IF	Citations
436	RARE imaging: a fast imaging method for clinical MR. *Magnetic Resonance in Medicine*, **1986**, 3, 823-33	4.4	1524
435	Ventral and dorsal pathways for language. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 18035-40	11.5	1045
434	Dynamic contrast-enhanced magnetic resonance imaging as a biomarker for the pharmacological response of PTK787/ZK 222584, an inhibitor of the vascular endothelial growth factor receptor tyrosine kinases, in patients with advanced colorectal cancer and liver metastases: results from two phase I studies. *Journal of Clinical Oncology*, **2003**, 21, 3955-64	2.2	587
433	Proton magnetic resonance spectroscopy studies on human brain myo-inositol in hypo-osmolarity and hepatic encephalopathy. *Gastroenterology*, **1994**, 107, 1475-80	13.3	349
432	Time-resolved 3D MR velocity mapping at 3T: improved navigator-gated assessment of vascular anatomy and blood flow. *Journal of Magnetic Resonance Imaging*, **2007**, 25, 824-31	5.6	318
431	The processing of first- and second-order motion in human visual cortex assessed by functional magnetic resonance imaging (fMRI). *Journal of Neuroscience*, **1998**, 18, 3816-30	6.6	304
430	Magnetic resonance imaging of freely moving objects: prospective real-time motion correction using an external optical motion tracking system. *NeuroImage*, **2006**, 31, 1038-50	7.9	288
429	Frontolimbic brain abnormalities in patients with borderline personality disorder: a volumetric magnetic resonance imaging study. *Biological Psychiatry*, **2003**, 54, 163-71	7.9	287
428	Cortical and subcortical correlates of electroencephalographic alpha rhythm modulation. *Journal of Neurophysiology*, **2005**, 93, 2864-72	3.2	284
427	Human brain tumors: assessment with in vivo proton MR spectroscopy. *Radiology*, **1993**, 186, 745-52	20.5	262
426	Neural correlates of antinociception in borderline personality disorder. *Archives of General Psychiatry*, **2006**, 63, 659-67		220
425	Observation of a fast response in functional MR. *Magnetic Resonance in Medicine*, **1994**, 32, 146-9	4.4	198
424	Fast quantitative diffusion-tensor imaging of cerebral white matter from the neonatal period to adolescence. *Neuroradiology*, **2004**, 46, 258-66	3.2	197
423	Multiecho sequences with variable refocusing flip angles: optimization of signal behavior using smooth transitions between pseudo steady states (TRAPS). *Magnetic Resonance in Medicine*, **2003**, 49, 527-35	4.4	194
422	Chronic insomnia and MRI-measured hippocampal volumes: a pilot study. *Sleep*, **2007**, 30, 955-8	1.1	190
421	Hyperechoes. *Magnetic Resonance in Medicine*, **2001**, 46, 6-12	4.4	182
420	Ultra-fast magnetic resonance encephalography of physiological brain activity - Glymphatic pulsation mechanisms?. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 1033-45	7.3	175

419	Echoes How to generate, recognize, use or avoid them in MR-imaging sequences. Part I: Fundamental and not so fundamental properties of spin echoes. *Concepts in Magnetic Resonance*, **1991**, 3, 125-143		174
418	Magnetization preparation during the steady state: fat-saturated 3D TrueFISP. *Magnetic Resonance in Medicine*, **2001**, 45, 1075-80	4.4	166
417	Frontoorbital volume reductions in adult patients with attention deficit hyperactivity disorder. *Neuroscience Letters*, **2002**, 328, 319-21	3.3	160
416	T(1) quantification with inversion recovery TrueFISP. *Magnetic Resonance in Medicine*, **2001**, 45, 720-3	4.4	159
415	A voxel-based morphometric MRI study in female patients with borderline personality disorder. *NeuroImage*, **2003**, 20, 385-92	7.9	158
414	Phase I clinical and pharmacokinetic study of PTK/ZK, a multiple VEGF receptor inhibitor, in patients with liver metastases from solid tumours. *European Journal of Cancer*, **2005**, 41, 1291-9	7.5	152
413	Is TrueFISP a gradient-echo or a spin-echo sequence?. *Magnetic Resonance in Medicine*, **2003**, 49, 395-7	4.4	151
412	In vivo wall shear stress distribution in the carotid artery: effect of bifurcation geometry, internal carotid artery stenosis, and recanalization therapy. *Circulation: Cardiovascular Imaging*, **2010**, 3, 647-55	3.9	145
411	PTK787/ZK 222584, a specific vascular endothelial growth factor-receptor tyrosine kinase inhibitor, affects the anatomy of the tumor vascular bed and the functional vascular properties as detected by dynamic enhanced magnetic resonance imaging. *Cancer Research*, **2002**, 62, 4015-22	10.1	140
410	Clinical applications and methodological developments of the RARE technique. *Magnetic Resonance Imaging*, **1988**, 6, 391-5	3.3	138
409	Structural connectivity for visuospatial attention: significance of ventral pathways. *Cerebral Cortex*, **2010**, 20, 121-9	5.1	133
408	Increased prefrontal and hippocampal glutamate concentration in schizophrenia: evidence from a magnetic resonance spectroscopy study. *Biological Psychiatry*, **2005**, 58, 724-30	7.9	132
407	Experimental analysis of parallel excitation using dedicated coil setups and simultaneous RF transmission on multiple channels. *Magnetic Resonance in Medicine*, **2005**, 54, 994-1001	4.4	129
406	Direct absolute quantification of metabolites in the human brain with in vivo localized proton spectroscopy. *NMR in Biomedicine*, **1992**, 5, 193-9	4.4	129
405	4D phase contrast MRI at 3 T: effect of standard and blood-pool contrast agents on SNR, PC-MRA, and blood flow visualization. *Magnetic Resonance in Medicine*, **2010**, 63, 330-8	4.4	128
404	Three-dimensional analysis of segmental wall shear stress in the aorta by flow-sensitive four-dimensional-MRI. *Journal of Magnetic Resonance Imaging*, **2009**, 30, 77-84	5.6	124
403	Functional imaging by I0- and T2*-parameter mapping using multi-image EPI. *Magnetic Resonance in Medicine*, **1998**, 40, 243-8	4.4	123
402	Breath-hold projection magnetic resonance-cholangio-pancreaticography (MRCP): a new method for the examination of the bile and pancreatic ducts. *Magnetic Resonance in Medicine*, **1995**, 33, 18-23	4.4	119

401	Complex plaques in the proximal descending aorta: an underestimated embolic source of stroke. *Stroke*, **2010**, 41, 1145-50	6.7	117
400	Tracking dynamic resting-state networks at higher frequencies using MR-encephalography. *NeuroImage*, **2013**, 65, 216-22	7.9	114
399	HIV-related metabolic abnormalities in the brain: depiction with proton MR spectroscopy with short echo times. *Radiology*, **1996**, 199, 805-10	20.5	113
398	1H-magnetic resonance spectroscopy in obsessive-compulsive disorder: evidence for neuronal loss in the cingulate gyrus and the right striatum. *Psychiatry Research - Neuroimaging*, **1997**, 74, 173-6	2.9	112
397	Quantitative diffusion tensor MR imaging of the brain: field strength related variance of apparent diffusion coefficient (ADC) and fractional anisotropy (FA) scalars. *European Radiology*, **2006**, 16, 1651-8	8	108
396	A hyperpolarized equilibrium for magnetic resonance. *Nature Communications*, **2013**, 4, 2946	17.4	107
395	Time-resolved projection angiography after bolus injection of contrast agent. *Magnetic Resonance in Medicine*, **1997**, 37, 341-5	4.4	107
394	Parallel imaging in non-bijective, curvilinear magnetic field gradients: a concept study. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2008**, 21, 5-14	2.8	107
393	Visual processing in infants and children studied using functional MRI. *Pediatric Research*, **1999**, 46, 135-40	3.2	106
392	Absence of N-acetylaspartate in the human brain: Impact on neurospectroscopy?. *Annals of Neurology*, **2001**, 49, 518-521	9.4	105
391	Reduced circular field-of-view imaging. *Magnetic Resonance in Medicine*, **1998**, 40, 474-80	4.4	102
390	Coupling effects in volume selective 1H spectroscopy of major brain metabolites. *Magnetic Resonance in Medicine*, **1991**, 21, 82-96	4.4	102
389	Low rank alternating direction method of multipliers reconstruction for MR fingerprinting. *Magnetic Resonance in Medicine*, **2018**, 79, 83-96	4.4	101
388	Disentangling micro from mesostructure by diffusion MRI: A Bayesian approach. *NeuroImage*, **2017**, 147, 964-975	7.9	100
387	Proton-transfer kinetics in solids: tautomerism in free base porphines by nitrogen-15 CPMAS NMR. *Journal of the American Chemical Society*, **1984**, 106, 4059-4060	16.4	97
386	Toward biocompatible nuclear hyperpolarization using signal amplification by reversible exchange: quantitative in situ spectroscopy and high-field imaging. *Analytical Chemistry*, **2014**, 86, 1767-74	7.8	96
385	Revisiting the functional specialization of left inferior frontal gyrus in phonological and semantic fluency: the crucial role of task demands and individual ability. *Journal of Neuroscience*, **2013**, 33, 7837-45	6.6	95
384	In vivo assessment of wall shear stress in the atherosclerotic aorta using flow-sensitive 4D MRI. *Magnetic Resonance in Medicine*, **2010**, 63, 1529-36	4.4	94

383	Calculation of flip angles for echo trains with predefined amplitudes with the extended phase graph (EPG)-algorithm: principles and applications to hyperecho and TRAPS sequences. *Magnetic Resonance in Medicine*, **2004**, 51, 68-80	4.4	90
382	Detection of BOLD changes by means of a frequency-sensitive trueFISP technique: preliminary results. *NMR in Biomedicine*, **2001**, 14, 490-6	4.4	88
381	RARE-MR-urography in the diagnosis of upper urinary tract abnormalities in children. *Pediatric Radiology*, **1991**, 21, 416-20	2.8	88
380	In vivo noninvasive 4D pressure difference mapping in the human aorta: phantom comparison and application in healthy volunteers and patients. *Magnetic Resonance in Medicine*, **2011**, 66, 1079-88	4.4	85
379	Detailed analysis of myocardial motion in volunteers and patients using high-temporal-resolution MR tissue phase mapping. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 1033-9	5.6	85
378	Myocardial tissue phase mapping with cine phase-contrast mr imaging: regional wall motion analysis in healthy volunteers. *Radiology*, **2006**, 238, 816-26	20.5	84
377	Disturbed cingulate glutamate metabolism in adults with high-functioning autism spectrum disorder: evidence in support of the excitatory/inhibitory imbalance hypothesis. *Molecular Psychiatry*, **2014**, 19, 1314-25	15.1	83
376	Prospective real-time slice-by-slice motion correction for fMRI in freely moving subjects. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2006**, 19, 55-61	2.8	82
375	Insomnia disorder is associated with increased amygdala reactivity to insomnia-related stimuli. *Sleep*, **2014**, 37, 1907-17	1.1	81
374	Time-resolved, 3-dimensional magnetic resonance flow analysis at 3 T: visualization of normal and pathological aortic vascular hemodynamics. *Journal of Computer Assisted Tomography*, **2007**, 31, 9-15	2.2	81
373	Thermosensitive paramagnetic liposomes for temperature control during MR imaging-guided hyperthermia: in vitro feasibility studies. *Academic Radiology*, **2000**, 7, 1107-15	4.3	80
372	Inferior frontal white matter microstructure and patterns of psychopathology in women with borderline personality disorder and comorbid attention-deficit hyperactivity disorder. *NeuroImage*, **2007**, 35, 738-47	7.9	78
371	Time-resolved CIDNP in laser flash photolysis of aliphatic ketones. A quantitative analysis. *Chemical Physics*, **1985**, 97, 217-234	2.3	78
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369	Single-breathhold 3D-trueFISP cine cardiac imaging. *Magnetic Resonance in Medicine*, **2002**, 48, 921-5	4.4	76
368	Functional magnetic resonance imaging: a review of methodological aspects and clinical applications. *Journal of Magnetic Resonance Imaging*, **2003**, 18, 1-15	5.6	75
367	Burst imaging. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **1993**, 1, 39-48	2.8	74
366	Fluid-dynamic modeling of the human left ventricle: methodology and application to surgical ventricular reconstruction. *Annals of Thoracic Surgery*, **2009**, 87, 1187-95	2.7	73

365	Reduced cingulate glutamate/glutamine-to-creatine ratios in adult patients with attention deficit/hyperactivity disorder -- a magnet resonance spectroscopy study. *Journal of Psychiatric Research*, **2007**, 41, 934-41	5.2	73
364	Insomnia does not appear to be associated with substantial structural brain changes. *Sleep*, **2013**, 36, 731-7	1.1	71
363	Fast multiecho balanced SSFP metabolite mapping of (1)H and hyperpolarized (13)C compounds. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2009**, 22, 251-6	2.8	71
362	Investigating myocardial motion by MRI using tissue phase mapping. *European Journal of Cardio-thoracic Surgery*, **2006**, 29 Suppl 1, S150-7	3	71
361	Echoes How to generate, recognize, use or avoid them in MR-imaging sequences. Part II: Echoes in imaging sequences. *Concepts in Magnetic Resonance*, **1991**, 3, 179-192		71
360	A continuous-flow, high-throughput, high-pressure parahydrogen converter for hyperpolarization in a clinical setting. *NMR in Biomedicine*, **2013**, 26, 124-31	4.4	70
359	Magnetic resonance tissue phase mapping of myocardial motion: new insight in age and gender. *Circulation: Cardiovascular Imaging*, **2010**, 3, 54-64	3.9	70
358	IR-spectroscopic study of isotope effects on the NH/ND-stretching bands of meso-tetraphenylporphine and vibrational hydrogen tunneling. *Journal of Chemical Physics*, **1983**, 78, 5432-5436	3.9	70
357	Primary kinetic HH/HD/DH/DD isotope effects and proton tunnelling in double proton-transfer reactions. *Faraday Discussions of the Chemical Society*, **1982**, 74, 229		70
356	Highly k-t-space-accelerated phase-contrast MRI. *Magnetic Resonance in Medicine*, **2008**, 60, 1169-77	4.4	69
355	Contrast behavior and relaxation effects of conventional and hyperecho-turbo spin echo sequences at 1.5 and 3 T. *Magnetic Resonance in Medicine*, **2006**, 55, 826-35	4.4	69
354	MR-Encephalography: Fast multi-channel monitoring of brain physiology with magnetic resonance. *NeuroImage*, **2007**, 34, 212-9	7.9	69
353	Acute visual neglect and extinction: distinct functional state of the visuospatial attention system. *Brain*, **2011**, 134, 3310-25	11.2	66
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351	Frontolimbic glutamate alterations in first episode schizophrenia: evidence from a magnetic resonance spectroscopy study. *World Journal of Biological Psychiatry*, **2008**, 9, 59-63	3.8	66
350	Single shot whole brain imaging using spherical stack of spirals trajectories. *NeuroImage*, **2013**, 73, 59-70	7.9	65
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348	Time-resolved magnetic resonance angiography and flow-sensitive 4-dimensional magnetic resonance imaging at 3 Tesla for blood flow and wall shear stress analysis. *Journal of Thoracic and Cardiovascular Surgery*, **2008**, 136, 400-7	1.5	62

347	Single shot concentric shells trajectories for ultra fast fMRI. *Magnetic Resonance in Medicine*, **2012**, 68, 484-94	4.4	61
346	Connecting and merging fibres: pathway extraction by combining probability maps. *NeuroImage*, **2008**, 43, 81-9	7.9	60
345	Influence of knee flexion angle and weight bearing on the Tibial Tuberosity-Trochlear Groove (TTTG) distance for evaluation of patellofemoral alignment. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2014**, 22, 2655-61	5.5	59
344	On the spin order transfer from parahydrogen to another nucleus. *Journal of Magnetic Resonance*, **2012**, 225, 25-35	3	59
343	Retrograde embolism from the descending aorta: visualization by multidirectional 3D velocity mapping in cryptogenic stroke. *Stroke*, **2009**, 40, 1505-8	6.7	59
342	Dental MRI: imaging of soft and solid components without ionizing radiation. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 841-6	5.6	58
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339	Reconstruction of MRI data encoded with arbitrarily shaped, curvilinear, nonbijective magnetic fields. *Magnetic Resonance in Medicine*, **2010**, 64, 1390-403	4.4	57
338	Parallel MRI with extended and averaged GRAPPA kernels (PEAK-GRAPPA): optimized spatiotemporal dynamic imaging. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 1226-32	5.6	57
337	Subtle prefrontal neuropathology in a pilot magnetic resonance spectroscopy study in patients with borderline personality disorder. *Journal of Neuropsychiatry and Clinical Neurosciences*, **2001**, 13, 511-4	2.7	57
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335	Pseudo Steady-State Free Precession for MR-Fingerprinting. *Magnetic Resonance in Medicine*, **2017**, 77, 1151-1161	4.4	56
334	Should patients with brain implants undergo MRI?. *Journal of Neural Engineering*, **2018**, 15, 041002	5	56
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329	Fine-grained mapping of mouse brain functional connectivity with resting-state fMRI. *NeuroImage*, **2014**, 96, 203-15	7.9	54
328	Assessment of flow instabilities in the healthy aorta using flow-sensitive MRI. *Journal of Magnetic Resonance Imaging*, **2011**, 33, 839-46	5.6	53
327	Kinetic study of hydrogen tunnelling in meso-tetraphenylporphine by nuclear magnetic resonance lineshape analysis and selective T1 relaxation time measurements. *Journal of the Chemical Society, Faraday Transactions 2*, **1979**, 75, 752		53
326	Temporal integration of sequential auditory events: silent period in sound pattern activates human planum temporale. *NeuroImage*, **2003**, 20, 429-34	7.9	52
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324	Prospective motion correction with continuous gradient updates in diffusion weighted imaging. *Magnetic Resonance in Medicine*, **2012**, 67, 326-38	4.4	51
323	Three-dimensional MR-encephalography: fast volumetric brain imaging using rosette trajectories. *Magnetic Resonance in Medicine*, **2011**, 65, 1260-8	4.4	51
322	Visual cortex abnormalities in adults with ADHD: a structural MRI study. *World Journal of Biological Psychiatry*, **2011**, 12, 260-70	3.8	51
321	Morphometry of the retrobulbar human optic nerve: comparison between conventional sonography and ultrafast magnetic resonance sequences. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 1913-7		51
320	Multidirectional flow analysis by cardiovascular magnetic resonance in aneurysm development following repair of aortic coarctation. *Journal of Cardiovascular Magnetic Resonance*, **2008**, 10, 30	6.9	51
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316	Ballistocardiographic artifact removal from simultaneous EEG-fMRI using an optical motion-tracking system. *NeuroImage*, **2013**, 75, 1-11	7.9	48
315	Visualization of iliac and proximal femoral artery hemodynamics using time-resolved 3D phase contrast MRI at 3T. *Journal of Magnetic Resonance Imaging*, **2007**, 25, 1085-92	5.6	47
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313	Guanidinoacetate methyltransferase deficiency: differences of creatine uptake in human brain and muscle. *Molecular Genetics and Metabolism*, **2004**, 82, 208-13	3.7	47
312	A comparison between electric source localisation and fMRI during somatosensory stimulation. *Electroencephalography and Clinical Neurophysiology*, **1998**, 106, 22-9		46

311	Fast phase contrast cardiac magnetic resonance imaging: improved assessment and analysis of left ventricular wall motion. *Journal of Magnetic Resonance Imaging*, **2002**, 15, 642-53	5.6	46
310	Neural network-based analysis of MR time series. *Magnetic Resonance in Medicine*, **1999**, 41, 124-31	4.4	46
309	Frequency resolved single-shot MR imaging using stochastic k-space trajectories. *Magnetic Resonance in Medicine*, **1996**, 35, 569-76	4.4	46
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307	Single-voxel MRS with prospective motion correction and retrospective frequency correction. *NMR in Biomedicine*, **2010**, 23, 325-32	4.4	45
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305	Navigator gated high temporal resolution tissue phase mapping of myocardial motion. *Magnetic Resonance in Medicine*, **2006**, 55, 937-42	4.4	45
304	Extraction of prefronto-amygdalar pathways by combining probability maps. *Psychiatry Research - Neuroimaging*, **2009**, 174, 217-22	2.9	44
303	Extended phase graphs with anisotropic diffusion. *Journal of Magnetic Resonance*, **2010**, 205, 276-85	3	44
302	MRI myocardial motion and fiber tracking: a confirmation of knowledge from different imaging modalities. *European Journal of Cardio-thoracic Surgery*, **2006**, 29 Suppl 1, S165-77	3	44
301	Magnetic resonance imaging in juvenile Canavan disease. *European Journal of Pediatrics*, **1993**, 152, 750-3	4.1	44
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293	DCE-MRI assessment of the effect of vandetanib on tumor vasculature in patients with advanced colorectal cancer and liver metastases: a randomized phase I study. *Journal of Angiogenesis Research*, **2009**, 1, 5		41
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290	Continuous re-hyperpolarization of nuclear spins using parahydrogen: theory and experiment. *ChemPhysChem*, **2014**, 15, 2451-7	3.2	40
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278	Sex-specific characteristics of cardiac function, geometry, and mass in young adult elite athletes. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 297-303	5.6	36
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276	Multislice interleaved excitation cycles (MUSIC): an efficient gradient-echo technique for functional MRI. *Magnetic Resonance in Medicine*, **1996**, 35, 870-4	4.4	36

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269	Reproduction of motion artifacts for performance analysis of prospective motion correction in MRI. *Magnetic Resonance in Medicine*, **2014**, 71, 182-90	4.4	33
268	Fast undersampled functional magnetic resonance imaging using nonlinear regularized parallel image reconstruction. *PLoS ONE*, **2011**, 6, e28822	3.7	33
267	Visualization of multidirectional regional left ventricular dynamics by high-temporal-resolution tissue phase mapping. *Journal of Magnetic Resonance Imaging*, **2009**, 29, 1043-52	5.6	33
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