

# Benedikt A Poser

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

4,486  
citations

147801

31  
h-index

128289

60  
g-index

97  
all docs

97  
docs citations

97  
times ranked

4210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for engagement of the nucleus of the solitary tract in processing intestinal chemonociceptive input irrespective of conscious pain response in healthy humans. <i>Pain</i> , 2022, 163, 1520-1529.	4.2	7
2	Concurrent CBF and BOLD fMRI with dual-echo spiral simultaneous multi-slice acquisitions at 7T. <i>NeuroImage</i> , 2022, 247, 118820.	4.2	5
3	Worry Modifies the Relationship between Locus Coeruleus Activity and Emotional Mnemonic Discrimination. <i>Brain Sciences</i> , 2022, 12, 381.	2.3	0
4	<scp>BUDAâ€œMESMERISE</scp>: Rapid acquisition and unsupervised parameter estimation for <scp>T<sub>1</sub></scp>, <scp>T<sub>2</sub></scp>, <scp>M<sub>0</sub></scp>, <scp>B<sub>0</sub></scp>, and <scp>B<sub>1</sub></scp> maps. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 292-308.	3.0	4
5	Highly accelerated <scp>EPI</scp> with wave encoding and multiâ€œshot simultaneous multislice imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1180-1197.	3.0	3
6	Magnetic field strength dependent SNR gain at the center of a spherical phantom and up to 11.<scp>7T</scp>. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2131-2138.	3.0	21
7	Layer-dependent functional connectivity methods. <i>Progress in Neurobiology</i> , 2021, 207, 101835.	5.7	67
8	Sub-millimetre resolution laminar fMRI using Arterial Spin Labelling in humans at 7 T. <i>PLoS ONE</i> , 2021, 16, e0250504.	2.5	27
9	7T dynamic contrastâ€œenhanced MRI for the detection of subtle bloodâ€œbrain barrier leakage. <i>Journal of Neuroimaging</i> , 2021, 31, 902-911.	2.0	7
10	LayNii: A software suite for layer-fMRI. <i>NeuroImage</i> , 2021, 237, 118091.	4.2	64
11	Validating layer-specific VASO across species. <i>NeuroImage</i> , 2021, 237, 118195.	4.2	11
12	Magnetization transfer weighted EPI facilitates cortical depth determination in native fMRI space. <i>NeuroImage</i> , 2021, 242, 118455.	4.2	4
13	Temporal SNR optimization through RF coil combination in fMRI: The more, the better?. <i>PLoS ONE</i> , 2021, 16, e0259592.	2.5	1
14	Integrated VASO and perfusion contrast: A new tool for laminar functional MRI. <i>NeuroImage</i> , 2020, 207, 116358.	4.2	35
15	Sub-millimeter fMRI reveals multiple topographical digit representations that form action maps in human motor cortex. <i>NeuroImage</i> , 2020, 208, 116463.	4.2	88
16	Application of Evolution Strategies to the Design of SAR Efficient Parallel Transmit Multi-Spoke Pulses for Ultra-High Field MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4225-4236.	8.9	5
17	Transcutaneous vagus nerve stimulation increases locus coeruleus function and memory performance in older individuals. <i>Alzheimer's and Dementia</i> , 2020, 16, e044766.	0.8	4
18	Rostroâ€œcaudal locus coeruleus integrity differences vary with age and sex using ultraâ€œhigh field imaging. <i>Alzheimer's and Dementia</i> , 2020, 16, e046722.	0.8	1

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19	Unraveling the contributions to the neuromelanin-MRI contrast. <i>Brain Structure and Function</i> , 2020, 225, 2757-2774.	2.3	41
20	Dynamic behavior of the locus coeruleus during arousal-related memory processing in a multi-modal 7T fMRI paradigm. <i>ELife</i> , 2020, 9, .	6.0	43
21	In vivo imaging of the nucleus of the solitary tract with Magnetization Transfer at 7 Tesla. <i>NeuroImage</i> , 2019, 201, 116071.	4.2	16
22	Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases. <i>Brain</i> , 2019, 142, 2558-2571.	7.6	219
23	The potential of MR-Encephalography for BCI/Neurofeedback applications with high temporal resolution. <i>NeuroImage</i> , 2019, 194, 228-243.	4.2	14
24	Optimizing BOLD sensitivity in the 7T Human Connectome Project resting-state fMRI protocol using plug-and-play parallel transmission. <i>NeuroImage</i> , 2019, 195, 1-10.	4.2	18
25	The influence of spatial resolution on the spectral quality and quantification accuracy of whole-brain MRSI at 1.5T, 3T, 7T, and 9.4T. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 551-565.	3.0	22
26	Minimal Linear Networks for Magnetic Resonance Image Reconstruction. <i>Scientific Reports</i> , 2019, 9, 19527.	3.3	8
27	Comparison of SMS-EPI and 3D-EPI at 7T in an fMRI localizer study with matched spatiotemporal resolution and homogenized excitation profiles. <i>PLoS ONE</i> , 2019, 14, e0225286.	2.5	24
28	Frequency-specific attentional modulation in human primary auditory cortex and midbrain. <i>NeuroImage</i> , 2018, 174, 274-287.	4.2	11
29	Techniques for blood volume fMRI with VASO: From low-resolution mapping towards sub-millimeter layer-dependent applications. <i>NeuroImage</i> , 2018, 164, 131-143.	4.2	101
30	A method for the dynamic correction of B O -related distortions in single-echo EPI at 7 T. <i>NeuroImage</i> , 2018, 168, 321-331.	4.2	57
31	Impact of acquisition and analysis strategies on cortical depth-dependent fMRI. <i>NeuroImage</i> , 2018, 168, 332-344.	4.2	71
32	Pulse sequences and parallel imaging for high spatiotemporal resolution MRI at ultra-high field. <i>NeuroImage</i> , 2018, 168, 101-118.	4.2	47
33	High-resolution in vivo imaging of human locus coeruleus by magnetization transfer MRI at 3T and 7T. <i>NeuroImage</i> , 2018, 168, 427-436.	4.2	104
34	Resolving laminar activation in human V1 using ultra-high spatial resolution fMRI at 7T. <i>Scientific Reports</i> , 2018, 8, 17063.	3.3	53
35	Ultra-high resolution blood volume fMRI and BOLD fMRI in humans at 9.4T: Capabilities and challenges. <i>NeuroImage</i> , 2018, 178, 769-779.	4.2	44
36	Using multi-echo simultaneous multi-slice (SMS) EPI to improve functional MRI of the subcortical nuclei of the basal ganglia at ultra-high field (7T). <i>NeuroImage</i> , 2018, 172, 886-895.	4.2	32

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37	inhomogeneity mitigation in CEST using parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2216-2225.	3.0	18
38	Optimization of simultaneous multislice EPI for concurrent functional perfusion and BOLD signal measurements at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, C1-C1.	3.0	0
39	Comparison of 3 T and 7 T ASL techniques for concurrent functional perfusion and BOLD studies. <i>NeuroImage</i> , 2017, 156, 363-376.	4.2	34
40	Multi-echo fMRI: A review of applications in fMRI denoising and analysis of BOLD signals. <i>NeuroImage</i> , 2017, 154, 59-80.	4.2	238
41	Estimating and eliminating the excitation errors in bipolar gradient composite excitations caused by radiofrequencyâ€gradient delay: Example of bipolar spokes pulses in parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1883-1890.	3.0	11
42	Rapid whole-brain resting-state fMRI at 3Â: Efficiency-optimized three-dimensional EPI versus repetition time-matched simultaneous-multi-slice EPI. <i>NeuroImage</i> , 2017, 163, 81-92.	4.2	39
43	Echo-time dependence of the BOLD response transients â€“ A window into brain functional physiology. <i>NeuroImage</i> , 2017, 159, 355-370.	4.2	23
44	Highâ€resolution gradientâ€recalled echo imaging at 9.4T using 16â€channel parallel transmit simultaneous multislice spokes excitations with sliceâ€byâ€slice flip angle homogenization. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1050-1058.	3.0	22
45	High-Resolution CBV-fMRI Allows Mapping of Laminar Activity and Connectivity of Cortical Input and Output in Human M1. <i>Neuron</i> , 2017, 96, 1253-1263.e7.	8.1	255
46	Variable slice thickness (VAST) EPI for the reduction of susceptibility artifacts in whole-brain GE-EPI at 7 Tesla. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 591-607.	2.0	4
47	Optimization of simultaneous multislice EPI for concurrent functional perfusion and BOLD signal measurements at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 121-129.	3.0	24
48	Functional cerebral blood volume mapping with simultaneous multi-slice acquisition. <i>NeuroImage</i> , 2016, 125, 1159-1168.	4.2	22
49	Correcting dynamic distortions in 7T echo planar imaging using a jittered echo time sequence. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1388-1399.	3.0	20
50	Simultaneous multislice (SMS) imaging techniques. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 63-81.	3.0	420
51	High-resolution diffusion MRI at 7T using a three-dimensional multi-slab acquisition. <i>NeuroImage</i> , 2016, 143, 1-14.	4.2	55
52	Volumetric imaging with homogenised excitation and static field at 9.4 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 333-345.	2.0	23
53	The quest for the best: The impact of different EPI sequences on the sensitivity of random effect fMRI group analyses. <i>NeuroImage</i> , 2016, 126, 49-59.	4.2	55
54	A Specialized Multi-Transmit Head Coil for High Resolution fMRI of the Human Visual Cortex at 7T. <i>PLoS ONE</i> , 2016, 11, e0165418.	2.5	23

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55	<scp>SENSE</scp> and simultaneous multislice imaging. Magnetic Resonance in Medicine, 2015, 74, 1356-1362.	3.0	57
56	Design of parallel transmission pulses for simultaneous multislice with explicit control for peak power and local specific absorption rate. Magnetic Resonance in Medicine, 2015, 73, 1946-1953.	3.0	51
57	Iterative projection onto convex sets for quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2015, 73, 697-703.	3.0	3
58	RF peak power reduction in CAIPIRINHA excitation by interslice phase optimization. NMR in Biomedicine, 2015, 28, 1393-1401.	2.8	6
59	Sub-millimeter T2 weighted fMRI at 7 T: comparison of 3D-GRASE and 2D SE-EPI. Frontiers in Neuroscience, 2015, 9, 163.	2.8	70
60	Simultaneous acquisition of cerebral blood volumeâ€¦, blood flowâ€¦, and blood oxygenationâ€¦weighted <scp>MRI</scp> signals at ultraâ€¦high magnetic field. Magnetic Resonance in Medicine, 2015, 74, 513-517.	3.0	9
61	Fast quantitative susceptibility mapping using 3D EPI and total generalized variation. NeuroImage, 2015, 111, 622-630.	4.2	157
62	BOLD fMRI signal characteristics of S1- and S2-SSFP at 7 Tesla. Frontiers in Neuroscience, 2014, 8, 49.	2.8	21
63	A study-specific fMRI normalization approach that operates directly on high resolution functional EPI data at 7Tesla. NeuroImage, 2014, 100, 710-714.	4.2	18
64	Simultaneous multislice spectralâ€¦spatial excitations for reduced signal loss susceptibility artifact in BOLD functional MRI. Magnetic Resonance in Medicine, 2014, 72, 1342-1352.	3.0	8
65	Slab-selective, BOLD-corrected VASO at 7 Tesla provides measures of cerebral blood volume reactivity with high signal-to-noise ratio. Magnetic Resonance in Medicine, 2014, 72, 137-148.	3.0	107
66	Threeâ€¦dimensional Fourier encoding of simultaneously excited slices: Generalized acquisition and reconstruction framework. Magnetic Resonance in Medicine, 2014, 71, 2071-2081.	3.0	58
67	Prevention of motionâ€¦induced signal loss in diffusionâ€¦weighted echoâ€¦planar imaging by dynamic restoration of gradient moments. Magnetic Resonance in Medicine, 2014, 71, 2006-2013.	3.0	22
68	Simultaneous Multi-Slice fMRI using spiral trajectories. NeuroImage, 2014, 92, 8-18.	4.2	30
69	Phonological markers of information structure: An fMRI study. Neuropsychologia, 2014, 58, 64-74.	1.6	9
70	Simultaneous multislice excitation by parallel transmission. Magnetic Resonance in Medicine, 2014, 71, 1416-1427.	3.0	51
71	Singleâ€¦shot echoâ€¦planar imaging with Nyquist ghost compensation: Interleaved dual echo with acceleration (IDEA) echoâ€¦planar imaging (EPI). Magnetic Resonance in Medicine, 2013, 69, 37-47.	3.0	23
72	Modeling and suppression of respiration induced B0-fluctuations in non-balanced steady-state free precession sequences at 7 Tesla. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 377-387.	2.0	2

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73	Memory-Related Hippocampal Activity Can Be Measured Robustly Using fMRI at 7 Tesla. <i>Journal of Neuroimaging</i> , 2013, 23, 445-451.	2.0	23
74	Time-Interleaved acquisition of modes: An analysis of SAR and image contrast implications. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1033-1041.	3.0	30
75	Reference-free unwarping of EPI data using dynamic off-resonance correction with multiecho acquisition (DOCMA). <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1247-1254.	3.0	32
76	Spectral decomposition of susceptibility artifacts for spectral-spatial radiofrequency pulse design. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1905-1910.	3.0	6
77	Exploring the post-stimulus undershoot with spin-echo fMRI: Implications for models of neurovascular response. <i>Human Brain Mapping</i> , 2011, 32, 141-153.	3.6	15
78	Application of whole-brain CBV-weighted fMRI to a cognitive stimulation paradigm: Robust activation detection in a stroop task experiment using 3D GRASE VASO. <i>Human Brain Mapping</i> , 2011, 32, 974-981.	3.6	22
79	Advances in High-Field BOLD fMRI. <i>Materials</i> , 2011, 4, 1941-1955.	2.9	21
80	RF excitation using time interleaved acquisition of modes (TIAMO) to address $B_1$ inhomogeneity in high-field MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 327-333.	3.0	115
81	Three dimensional echo-planar imaging at 7 Tesla. <i>NeuroImage</i> , 2010, 51, 261-266.	4.2	266
82	3D single-shot VASO using a maxwell gradient compensated GRASE sequence. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 255-262.	3.0	34
83	A dual echo approach to removing motion artefacts in fMRI time series. <i>NMR in Biomedicine</i> , 2009, 22, 551-560.	2.8	33
84	Investigating the benefits of multi-echo EPI for fMRI at 7T. <i>NeuroImage</i> , 2009, 45, 1162-1172.	4.2	121
85	Fast spin echo sequences for BOLD functional MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007, 20, 11-17.	2.0	59
86	Measurement of activation-related changes in cerebral blood volume: VASO with single-shot HASTE acquisition. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007, 20, 63-67.	2.0	22
87	BOLD contrast sensitivity enhancement and artifact reduction with multiecho EPI: Parallel-acquired inhomogeneity-desensitized fMRI. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1227-1235.	3.0	399