## Moritz Zaiss

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2289164/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Linear projectionâ€based chemical exchange saturation transfer parameter estimation. NMR in Biomedicine, 2023, 36, e4697.	2.8	7
2	7 tricks for 7 T CEST: Improving the reproducibility of multipool evaluation provides insights into the effects of age and the early stages of Parkinson's disease. NMR in Biomedicine, 2023, 36, e4717.	2.8	9
3	An endâ€ŧoâ€end Alâ€based framework for automated discovery of rapid CEST/MT MRI acquisition protocols and molecular parameter quantification (AutoCEST). Magnetic Resonance in Medicine, 2022, 87, 2792-2810.	3.0	22
4	Mapping intracellular pH in tumors using amide and guanidyl CESTâ€MRI at 9.4 T. Magnetic Resonance in Medicine, 2022, 87, 2436-2452.	3.0	11
5	A fast multislice sequence for 3D MRIâ€CEST pH imaging. Magnetic Resonance in Medicine, 2021, 85, 1335-1349.	3.0	31
6	On the interference from agar in chemical exchange saturation transfer MRI parameter optimization in model solutions. NMR in Biomedicine, 2021, 34, e4403.	2.8	5
7	Paramagnetic chemical exchange saturation transfer agents and their perspectives for application in magnetic resonance imaging. International Reviews in Physical Chemistry, 2021, 40, 51-79.	2.3	14
8	Wholeâ€brain quantitative CEST MRI at 7T using parallel transmission methods and correction. Magnetic Resonance in Medicine, 2021, 86, 346-362.	3.0	11
9	Pulseq EST: Towards multiâ€site multiâ€vendor compatibility and reproducibility of CEST experiments using an openâ€source sequence standard. Magnetic Resonance in Medicine, 2021, 86, 1845-1858.	3.0	33
10	CEST MRâ€Fingerprinting: Practical considerations and insights for acquisition schedule design and improved reconstruction. Magnetic Resonance in Medicine, 2020, 83, 462-478.	3.0	28
11	A novel normalization for amide proton transfer CEST MRI to correct for fat signal–induced artifacts: application to human breast cancer imaging. Magnetic Resonance in Medicine, 2020, 83, 920-934.	3.0	26
12	DeepCEST 3T: Robust MRI parameter determination and uncertainty quantification with neural networks—application to CEST imaging of the human brain at 3T. Magnetic Resonance in Medicine, 2020, 84, 450-466.	3.0	48
13	Dynamic glucoseâ€enhanced (DGE) MRI in the human brain at 7 T with reduced motionâ€induced artifacts based on quantitative R 1ϕmapping. Magnetic Resonance in Medicine, 2020, 84, 182-191.	3.0	11
14	Structure or Exchange? On the Feasibility of Chemical Exchange Detection with Balanced Steady‣tate Free Precession in Tissue – An In Vitro Study. NMR in Biomedicine, 2020, 33, e4200.	2.8	5
15	Whole brain snapshot CEST at 3T using 3Dâ€EPI: Aiming for speed, volume, and homogeneity. Magnetic Resonance in Medicine, 2020, 84, 2469-2483.	3.0	25
16	Optimized dualCESTâ€MRI for imaging of endogenous bulk mobile proteins in the human brain. NMR in Biomedicine, 2020, 33, e4262.	2.8	3
17	Inert macrocyclic Eu <sup>3+</sup> complex with affirmative paraCEST features. Inorganic Chemistry Frontiers, 2020, 7, 2274-2286.	6.0	14
18	Dynamic Interactions in Synthetic Receptors: A Guest Exchange Saturation Transfer Study. Chemistry - A European Journal, 2019, 25, 1687-1690.	3.3	11

MORITZ ZAISS

#	Article	IF	CITATIONS
19	Assessment of frequency drift on CEST MRI and dynamic correction: application to gagCEST at 7 T. Magnetic Resonance in Medicine, 2019, 81, 573-582.	3.0	35
20	Chemical exchange saturation transfer (CEST) signal intensity at 7T MRI of WHO IV° gliomas is dependent on the anatomic location. Journal of Magnetic Resonance Imaging, 2019, 49, 777-785.	3.4	27
21	Adaptive denoising for chemical exchange saturation transfer MR imaging. NMR in Biomedicine, 2019, 32, e4133.	2.8	32
22	Quantification of hydroxyl exchange of $D\hat{a}\in G$ lucose at physiological conditions for optimization of glucoCEST MRI at 3, 7 and 9.4 Tesla. NMR in Biomedicine, 2019, 32, e4113.	2.8	49
23	Tlïâ€based dynamic glucoseâ€enhanced (DGEï) MRI at 3 T: method development and early clinical experience in the human brain. Magnetic Resonance in Medicine, 2019, 82, 1832-1847.	3.0	43
24	Wholeâ€brain snapshot CEST imaging at 7 T using 3Dâ€EPI. Magnetic Resonance in Medicine, 2019, 82, 1741-1752.	3.0	27
25	Multiple interleaved mode saturation (MIMOSA) for B <sub>1</sub> <sup>+</sup> inhomogeneity mitigation in chemical exchange saturation transfer. Magnetic Resonance in Medicine, 2019, 82, 693-705.	3.0	22
26	Relaxationâ€compensated APT and rNOE CESTâ€MRI of human brain tumors at 3 T. Magnetic Resonance in Medicine, 2019, 82, 622-632.	3.0	49
27	DeepCEST: 9.4 T Chemical exchange saturation transfer MRI contrast predicted from 3ÂT data – a proof of concept study. Magnetic Resonance in Medicine, 2019, 81, 3901-3914.	3.0	30
28	Relaxation-compensated amide proton transfer (APT) MRI signal intensity is associated with survival and progression in high-grade glioma patients. European Radiology, 2019, 29, 4957-4967.	4.5	64
29	CEST imaging at 9.4 T using adjusted adiabatic spinâ€lock pulses for on†and offâ€resonant T1â â€dominated Zâ€spectrum acquisition. Magnetic Resonance in Medicine, 2019, 81, 275-290.	3.0	18
30	Possible artifacts in dynamic CEST MRI due to motion and field alterations. Journal of Magnetic Resonance, 2019, 298, 16-22.	2.1	41
31	3D gradient echo snapshot CEST MRI with low power saturation for human studies at 3T. Magnetic Resonance in Medicine, 2019, 81, 2412-2423.	3.0	54
32	PROâ€QUEST: a rapid assessment method based on progressive saturation for quantifying exchange rates using saturation times in CEST. Magnetic Resonance in Medicine, 2018, 80, 1638-1654.	3.0	9
33	Dualâ€frequency irradiation CESTâ€MRI of endogenous bulk mobile proteins. NMR in Biomedicine, 2018, 31, e3920.	2.8	18
34	Snapshotâ€CEST: Optimizing spiralâ€centricâ€reordered gradient echo acquisition for fast and robust 3D CEST MRI at 9.4ÂT. NMR in Biomedicine, 2018, 31, e3879.	2.8	76
35	Assessing the predictability of <i>IDH</i> mutation and <i>MGMT</i> methylation status in glioma patients using relaxation-compensated multipool CEST MRI at 7.0 T. Neuro-Oncology, 2018, 20, 1661-1671.	1.2	119
36	QUESP and QUEST revisited – fast and accurate quantitative CEST experiments. Magnetic Resonance in Medicine, 2018, 79, 1708-1721.	3.0	82

MORITZ ZAISS

#	Article	IF	CITATIONS
37	Chemical exchange saturation transfer MRI serves as predictor of early progression in glioblastoma patients. Oncotarget, 2018, 9, 28772-28783.	1.8	63
38	Comparison of B0 versus B0 and B1 field inhomogeneity correction for glycosaminoglycan chemical exchange saturation transfer imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 645-651.	2.0	8
39	Pros and cons of ultra-high-field MRI/MRS for human application. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 109, 1-50.	7.5	331
40	Chemical exchange saturation transfer MRI contrast in the human brain at 9.4†T. Neurolmage, 2018, 179, 144-155.	4.2	32
41	Downfieldâ€NOEâ€suppressed amideâ€CESTâ€MRI at 7 Tesla provides a unique contrast in human glioblastoma. Magnetic Resonance in Medicine, 2017, 77, 196-208.	3.0	108
42	Simultaneous mapping of water shift and B <sub>1</sub> (WASABI)—Application to fieldâ€Inhomogeneity correction of <scp>CEST</scp> <scp>MRI</scp> data. Magnetic Resonance in Medicine, 2017, 77, 571-580.	3.0	99
43	Measurement of APT using a combined CERT-AREX approach with varying duty cycles. Magnetic Resonance Imaging, 2017, 42, 22-31.	1.8	18
44	T1ϕweighted Dynamic Glucose-enhanced MR Imaging in the Human Brain. Radiology, 2017, 285, 914-922.	7.3	72
45	Spectrally Undiscerned Isomers Might Lead to Erroneous Determination of Water Exchange Rates of paraCEST Eu(III) Agents. Inorganic Chemistry, 2017, 56, 7737-7745.	4.0	17
46	On the transmit field inhomogeneity correction of relaxationâ€compensated amide and NOE CEST effects at 7ÂT. NMR in Biomedicine, 2017, 30, e3687.	2.8	34
47	Aggregationâ€induced changes in the chemical exchange saturation transfer (CEST) signals of proteins. NMR in Biomedicine, 2017, 30, e3665.	2.8	32
48	Adiabatically prepared spin″ock approach for T1Ïâ€based dynamic glucose enhanced MRI at ultrahigh fields. Magnetic Resonance in Medicine, 2017, 78, 215-225.	3.0	71
49	Signature of protein unfolding in chemical exchange saturation transfer imaging. NMR in Biomedicine, 2015, 28, 906-913.	2.8	60
50	Amide proton transfer of carnosine in aqueous solution studied <i>in vitro</i> by WEX and CEST experiments. NMR in Biomedicine, 2015, 28, 1097-1103.	2.8	9
51	Relaxationâ€compensated CESTâ€MRI at 7 T for mapping of creatine content and pH – preliminary application in human muscle tissue <i>in vivo</i> . NMR in Biomedicine, 2015, 28, 1402-1412.	2.8	48
52	<i>R</i> <sub>1</sub> correction in amide proton transfer imaging: indication of the influence of transcytolemmal water exchange on CEST measurements. NMR in Biomedicine, 2015, 28, 1655-1662.	2.8	16
53	Imaging of amide proton transfer and nuclear Overhauser enhancement in ischemic stroke with corrections for competing effects. NMR in Biomedicine, 2015, 28, 200-209.	2.8	44
54	Quantitative pulsed CEST-MRI using <i>Ω</i> -plots. NMR in Biomedicine, 2015, 28, 1196-1208.	2.8	43

MORITZ ZAISS

#	Article	IF	CITATIONS
55	Nuclear Overhauser Enhancement Imaging of Glioblastoma at 7 Tesla: Region Specific Correlation with Apparent Diffusion Coefficient and Histology. PLoS ONE, 2015, 10, e0121220.	2.5	36
56	A combined analytical solution for chemical exchange saturation transfer and semiâ€solid magnetization transfer. NMR in Biomedicine, 2015, 28, 217-230.	2.8	111
57	Relaxation-compensated CEST-MRI of the human brain at 7 T: Unbiased insight into NOE and amide signal changes in human glioblastoma. NeuroImage, 2015, 112, 180-188.	4.2	165
58	Correction of <i>B</i> 1â€inhomogeneities for relaxationâ€compensated CEST imaging at 7 T. NMR in Biomedicine, 2015, 28, 529-537.	2.8	180
59	Towards quantification of pulsed spinlock and CEST at clinical MR scanners: an analytical interleaved saturation–relaxation (ISAR) approach. NMR in Biomedicine, 2015, 28, 40-53.	2.8	36
60	On the origins of chemical exchange saturation transfer (CEST) contrast in tumors at 9.4 T. NMR in Biomedicine, 2014, 27, 406-416.	2.8	133
61	Inverse <i>Z</i> -spectrum analysis for spillover-, MT-, and <i>T</i> <sub>1</sub> -corrected steady-state pulsed CEST-MRI - application to pH-weighted MRI of acute stroke. NMR in Biomedicine, 2014, 27, 240-252.	2.8	234
62	Characterization of creatine guanidinium proton exchange by water-exchange (WEX) spectroscopy for absolute-pH CEST imaging <i>in vitro</i> . NMR in Biomedicine, 2014, 27, 507-518.	2.8	72
63	Nuclear Overhauser Enhancement Mediated Chemical Exchange Saturation Transfer Imaging at 7 Tesla in Glioblastoma Patients. PLoS ONE, 2014, 9, e104181.	2.5	62
64	Exchangeâ€dependent relaxation in the rotating frame for slow and intermediate exchange – modeling offâ€resonant spinâ€lock and chemical exchange saturation transfer. NMR in Biomedicine, 2013, 26, 507-518.	2.8	178
65	MR imaging of protein folding <i>in vitro</i> employing Nuclearâ€Overhauserâ€mediated saturation transfer. NMR in Biomedicine, 2013, 26, 1815-1822.	2.8	72
66	Analytical solution for the depolarization of hyperpolarized nuclei by chemical exchange saturation transfer between free and encapsulated xenon (HyperCEST). Journal of Chemical Physics, 2012, 136, 144106.	3.0	57
67	Nonâ€contrastâ€enhanced MRI of the pulmonary blood volume using twoâ€compartmentâ€modeled T <sub>1</sub> â€relaxation. Journal of Magnetic Resonance Imaging, 2012, 36, 397-404.	3.4	13
68	Optimization of pulse train presaturation for CEST imaging in clinical scanners. Magnetic Resonance in Medicine, 2011, 65, 1620-1629.	3.0	72