

# Renhua Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

659  
citations

623734

14  
h-index

580821

25  
g-index

33  
all docs

33  
docs citations

33  
times ranked

747  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular pH is a biomarker enabling detection of breast cancer and liver cancer using CEST MRI. <i>Oncotarget</i> , 2017, 8, 45759-45767.	1.8	79
2	Differential neurometabolite alterations in brains of medication-free individuals with bipolar disorder and those with unipolar depression: a two-dimensional proton magnetic resonance spectroscopy study. <i>Bipolar Disorders</i> , 2016, 18, 583-590.	1.9	57
3	Quantitative description of radiofrequency (RF) power-based ratiometric chemical exchange saturation transfer (CEST) pH imaging. <i>NMR in Biomedicine</i> , 2015, 28, 555-565.	2.8	53
4	Quantitative chemical exchange saturation transfer (qCEST) MRI - omega plot analysis of RF-spillover-corrected inverse CEST ratio asymmetry for simultaneous determination of labile proton ratio and exchange rate. <i>NMR in Biomedicine</i> , 2015, 28, 376-383.	2.8	48
5	Improved measurement of labile proton concentration-weighted chemical exchange rate ( $k_{ws}$ ) with experimental factor-compensated and $T_1$ -normalized quantitative chemical exchange saturation transfer (CEST) MRI. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 384-389.	0.8	44
6	APT Weighted MRI as an Effective Imaging Protocol to Predict Clinical Outcome After Acute Ischemic Stroke. <i>Frontiers in Neurology</i> , 2018, 9, 901.	2.4	39
7	A method for accurate pH mapping with chemical exchange saturation transfer (CEST) MRI. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 195-202.	0.8	35
8	pH-Responsive Multifunctional Theranostic Rapamycin-Loaded Nanoparticles for Imaging and Treatment of Acute Ischemic Stroke. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 56909-56922.	8.0	28
9	The Neurochemical and Microstructural Changes in the Brain of Systemic Lupus Erythematosus Patients: A Multimodal MRI Study. <i>Scientific Reports</i> , 2016, 6, 19026.	3.3	26
10	Mapping the Changes of Glutamate Using Glutamate Chemical Exchange Saturation Transfer (GluCEST) Technique in a Traumatic Brain Injury Model: A Longitudinal Pilot Study. <i>ACS Chemical Neuroscience</i> , 2019, 10, 649-657.	3.5	26
11	A Potential Magnetic Resonance Imaging Technique Based on Chemical Exchange Saturation Transfer for In Vivo $^3\text{Aminobutyric Acid}$ Imaging. <i>PLoS ONE</i> , 2016, 11, e0163765.	2.5	21
12	Magnetization Transfer Prepared Gradient Echo MRI for CEST Imaging. <i>PLoS ONE</i> , 2014, 9, e112219.	2.5	21
13	Early Life Stress Increases Brain Glutamate and Induces Neurobehavioral Manifestations in Rats. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4169-4178.	3.5	20
14	Fast simulation and optimization of pulse-train chemical exchange saturation transfer (CEST) imaging. <i>Physics in Medicine and Biology</i> , 2015, 60, 4719-4730.	3.0	18
15	Imaging of nuclear Overhauser enhancement at 7 and 3T. <i>NMR in Biomedicine</i> , 2017, 30, e3735.	2.8	16
16	Novel nanomedicine with a chemical-exchange saturation transfer effect for breast cancer treatment in vivo. <i>Journal of Nanobiotechnology</i> , 2019, 17, 123.	9.1	15
17	Glymphatic System Visualized by Chemical-Exchange-Saturation-Transfer Magnetic Resonance Imaging. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1978-1984.	3.5	14
18	Broad Learning Enhanced 1H-MRS for Early Diagnosis of Neuropsychiatric Systemic Lupus Erythematosus. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-13.	1.3	13

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19	An Amyloid- $\beta^2$ Targeting Chemical Exchange Saturation Transfer Probe for <i>In Vivo</i> Detection of Alzheimer's Disease. ACS Chemical Neuroscience, 2019, 10, 3859-3867.	3.5	12
20	Noise-Immune Extreme Ensemble Learning for Early Diagnosis of Neuropsychiatric Systemic Lupus Erythematosus. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3495-3506.	6.3	12
21	Nuclear Overhauser Enhancement-Mediated Magnetization Transfer Imaging in Glioma with Different Progression at 7 T. ACS Chemical Neuroscience, 2017, 8, 60-66.	3.5	10
22	Glutamate Chemical Exchange Saturation Transfer (GluCEST) Magnetic Resonance Imaging in Pre-clinical and Clinical Applications for Encephalitis. Frontiers in Neuroscience, 2020, 14, 750.	2.8	10
23	Short Exon Detection via Wavelet Transform Modulus Maxima. PLoS ONE, 2016, 11, e0163088.	2.5	8
24	Assessment of endothelial shear stress in patients with mild or intermediate coronary stenoses using coronary computed tomography angiography: comparison with invasive coronary angiography. International Journal of Cardiovascular Imaging, 2017, 33, 1101-1110.	1.5	8
25	Maternal separation with early weaning impairs neuron-glia integrity: non-invasive evaluation and substructure demonstration. Scientific Reports, 2020, 10, 19440.	3.3	8
26	Amide signal intensities may be reduced in the motor cortex and the corticospinal tract of ALS patients. European Radiology, 2021, 31, 1401-1409.	4.5	4
27	Mapping the Alterations of Glutamate Using Glu-Weighted CEST MRI in a Rat Model of Fatigue. Frontiers in Neurology, 2020, 11, 589128.	2.4	3
28	Nanomedicine Particles Associated With Chemical Exchange Saturation Transfer Contrast Agents in Biomedical Applications. Frontiers in Chemistry, 2020, 8, 326.	3.6	3
29	Combined Application of Quantitative Susceptibility Mapping and Diffusion Kurtosis Imaging Techniques to Investigate the Effect of Iron Deposition on Microstructural Changes in the Brain in Parkinson's Disease. Frontiers in Aging Neuroscience, 2022, 14, 792778.	3.4	3
30	Using Local Anesthesia for Burr Hole Surgery of Chronic Subdural Hematoma Reduces Postoperative Complications, Length of Stay, and Hospitalization Cost: A Retrospective Cohort Study From a Single Center. Frontiers in Surgery, 2022, 9, 783885.	1.4	3
31	Early Life Stress Increases Brain Glutamate and Induces Neurobehavioral Manifestations in Rats. SSRN Electronic Journal, 0, , .	0.4	1
32	Glutamate Chemical Exchange Saturation Transfer (GluCEST) Magnetic Resonance Imaging of Rat Brain With Acute Carbon Monoxide Poisoning. Frontiers in Neurology, 2022, 13, .	2.4	1