

# Frank Riemer

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,098  
citations

516710

16  
h-index

434195

31  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying normal human brain metabolism using hyperpolarized [ <sup>13</sup> C]pyruvate and magnetic resonance imaging. <i>NeuroImage</i> , 2019, 189, 171-179.	4.2	144
2	Imaging breast cancer using hyperpolarized carbon-13 MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2092-2098.	7.1	138
3	The NADPARK study: A randomized phase I trial of nicotinamide riboside supplementation in Parkinson's disease. <i>Cell Metabolism</i> , 2022, 34, 396-407.e6.	16.2	111
4	Sodium accumulation is associated with disability and a progressive course in multiple sclerosis. <i>Brain</i> , 2013, 136, 2305-2317.	7.6	110
5	Sodium homeostasis in the tumour microenvironment. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2019, 1872, 188304.	7.4	69
6	Multi-site repeatability and reproducibility of MR fingerprinting of the healthy brain at 1.5 and 3.0T. <i>NeuroImage</i> , 2019, 195, 362-372.	4.2	67
7	Hyperpolarized <sup>13</sup> C MRI: A novel approach for probing cerebral metabolism in health and neurological disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1137-1147.	4.3	49
8	Sodium ( <sup>23</sup> Na) ultra-short echo time imaging in the human brain using a 3D-Cones trajectory. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 35-46.	2.0	31
9	High-Grade Glioma Treatment Response Monitoring Biomarkers: A Position Statement on the Evidence Supporting the Use of Advanced MRI Techniques in the Clinic, and the Latest Bench-to-Bedside Developments. Part 1: Perfusion and Diffusion Techniques. <i>Frontiers in Oncology</i> , 2022, 12, 810263.	2.8	29
10	Quantification of Total and Intracellular Sodium Concentration in Primary Prostate Cancer and Adjacent Normal Prostate Tissue With Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2018, 53, 450-456.	6.2	28
11	Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. <i>European Radiology</i> , 2019, 29, 5559-5566.	4.5	27
12	Cortical grey matter sodium accumulation is associated with disability and secondary progressive disease course in relapse-onset multiple sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 755-760.	1.9	24
13	Creating a clinical platform for carbon-13 studies using the sodium-23 and proton resonances. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1817-1827.	3.0	24
14	Hyperpolarized <sup>13</sup> C-Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinoma—A Proof of Principle Study. <i>Cancers</i> , 2022, 14, 335.	3.7	18
15	Measuring tissue sodium concentration: Cross-vendor repeatability and reproducibility of <sup>23</sup> Na-MRI across two sites. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1278-1284.	3.4	17
16	Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. <i>Kidney International</i> , 2020, 98, 1174-1178.	5.2	17
17	Imaging Glioblastoma Metabolism by Using Hyperpolarized [ <sup>13</sup> C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. <i>Radiology Imaging Cancer</i> , 2022, 4, .	1.6	17
18	Sodium quantification in the spinal cord at 3T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1201-1208.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Imaging and treatment of brain tumors through molecular targeting: Recent clinical advances. <i>European Journal of Radiology</i> , 2021, 142, 109842.	2.6	15
20	High-Grade Glioma Treatment Response Monitoring Biomarkers: A Position Statement on the Evidence Supporting the Use of Advanced MRI Techniques in the Clinic, and the Latest Bench-to-Bedside Developments. Part 2: Spectroscopy, Chemical Exchange Saturation, Multiparametric Imaging, and Radiomics. <i>Frontiers in Oncology</i> , 2021, 11, 811425.	2.8	15
21	Dynamic switching between intrinsic and extrinsic mode networks as demands change from passive to active processing. <i>Scientific Reports</i> , 2020, 10, 21463.	3.3	14
22	Bi-exponential $^{23}\text{Na}$ T <sub>2</sub> * component analysis in the human brain. <i>NMR in Biomedicine</i> , 2018, 31, e3899.	2.8	13
23	Multiparametric MRI of early tumor response to immune checkpoint blockade in metastatic melanoma. <i>Frontiers in Oncology</i> , 2021, 9, e003125.		13
24	Sodium accumulation in breast cancer predicts malignancy and treatment response. <i>British Journal of Cancer</i> , 2022, 127, 337-349.	6.4	13
25	Can unenhanced MRI of the breast replace contrast-enhanced MRI in assessing response to neoadjuvant chemotherapy?. <i>Acta Radiologica</i> , 2019, 60, 35-44.	1.1	12
26	Sodium MRI with 3D-cones as a measure of tumour cellularity in high grade serous ovarian cancer. <i>European Journal of Radiology Open</i> , 2019, 6, 156-162.	1.6	12
27	Imaging intralesional heterogeneity of sodium concentration in multiple sclerosis: Initial evidence from $^{23}\text{Na}$ -MRI. <i>Journal of the Neurological Sciences</i> , 2018, 387, 111-114.	0.6	10
28	Challenges and Perspectives of Quantitative Functional Sodium Imaging (fNaI). <i>Frontiers in Neuroscience</i> , 2018, 12, 810.	2.8	10
29	Molecular imaging of the prostate: Comparing total sodium concentration quantification in prostate cancer and normal tissue using dedicated $^{13}\text{C}$ and $^{23}\text{Na}$ endorectal coils. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 90-97.	3.4	9
30	Characterization and correction of center frequency effects in $^{13}\text{C}$ nuclear eddy current compensations on a clinical MR system. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2370-2376.	3.0	7
31	Investigating the relationship between diffusion kurtosis tensor imaging (DKTI) and histology within the normal human brain. <i>Scientific Reports</i> , 2021, 11, 8857.	3.3	7
32	Combined $^{23}\text{Na}$ and $^{13}\text{C}$ imaging at 3.0 Tesla using a single-tuned large FOV birdcage coil. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1734-1745.	3.0	5
33	Effects of Multi-Shell Free Water Correction on Glioma Characterization. <i>Diagnostics</i> , 2021, 11, 2385.	2.6	4
34	SODIUM ACCUMULATION IS ASSOCIATED WITH DISABILITY AND PROGRESSION IN MULTIPLE SCLEROSIS: A $^{23}\text{Na}$ MRI STUDY. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013, 84, e2.144-e2.	1.9	3