Frank Riemer

List of Publications by Year
in descending order

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	Hyperpolarized 13C-Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinomaâ€"A Proof of Principle Study. Cancers, 2022, 14, 335.	3.7	18
2	The NADPARK study: A randomized phase I trial of nicotinamide riboside supplementation in Parkinsonâ€™s disease. Cell Metabolism, 2022, 34, 396-407.e6.	16.2	111
3	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. Frontiers in Oncology, 2022, 12, 810263.	2.8	29
4	Sodium accumulation in breast cancer predicts malignancy and treatment response. British Journal of Cancer, 2022, 127, 337-349.	6.4	13
5	Imaging Glioblastoma Metabolism by Using Hyperpolarized [1-¹³C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. Radiology Imaging Cancer, 2022, 4, .	1.6	17
6	Characterization and correction of centerâ€frequency effects in Xâ€nuclear eddy current compensations on a clinical MR system. Magnetic Resonance in Medicine, 2021, 85, 2370-2376.	3.0	7
7	Investigating the relationship between diffusion kurtosis tensor imaging (DKTI) and histology within the normal human brain. Scientific Reports, 2021, 11, 8857.	3.3	7
8	Combined ²³Na and ¹³C imaging at 3.0ÂTesla using a singleâ€tuned large FOV birdcage coil. Magnetic Resonance in Medicine, 2021, 86, 1734-1745.	3.0	5
9	Imaging and treatment of brain tumors through molecular targeting: Recent clinical advances. European Journal of Radiology, 2021, 142, 109842.	2.6	15
10	Multiparametric MRI of early tumor response to immune checkpoint blockade in metastatic melanoma. , 2021, 9, e003125.		13
11	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. Frontiers in Oncology, 2021, 11, 811425.	2.8	15
12	Effects of Multi-Shell Free Water Correction on Glioma Characterization. Diagnostics, 2021, 11, 2385.	2.6	4
13	Molecular imaging of the prostate: Comparing total sodium concentration quantification in prostate cancer and normal tissue using dedicated ¹³C and ²³Na endorectal coils. Journal of Magnetic Resonance Imaging, 2020, 51, 90-97.	3.4	9
14	Dynamic switching between intrinsic and extrinsic mode networks as demands change from passive to active processing. Scientific Reports, 2020, 10, 21463.	3.3	14
15	Hyperpolarized ¹³C MRI: A novel approach for probing cerebral metabolism in health and neurological disease. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1137-1147.	4.3	49
16	Creating a clinical platform for carbonâ€13 studies using the sodiumâ€23 and proton resonances. Magnetic Resonance in Medicine, 2020, 84, 1817-1827.	3.0	24
17	Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. Kidney International, 2020, 98, 1174-1178.	5.2	17
18	Imaging breast cancer using hyperpolarized carbon-13 MRI. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2092-2098.	7.1	138

#	Article	IF	Citations
19	Can unenhanced MRI of the breast replace contrast-enhanced MRI in assessing response to neoadjuvant chemotherapy?. Acta Radiologica, 2019, 60, 35-44.	1.1	12
20	Sodium homeostasis in the tumour microenvironment. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1872, 188304.	7.4	69
21	Quantifying normal human brain metabolism using hyperpolarized [1â€“13C]pyruvate and magnetic resonance imaging. NeuroImage, 2019, 189, 171-179.	4.2	144
22	Sodium MRI with 3D-cones as a measure of tumour cellularity in high grade serous ovarian cancer. European Journal of Radiology Open, 2019, 6, 156-162.	1.6	12
23	Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. European Radiology, 2019, 29, 5559-5566.	4.5	27
24	Measuring tissue sodium concentration: Crossâ€vendor repeatability and reproducibility of ²³Naâ€MRI across two sites. Journal of Magnetic Resonance Imaging, 2019, 50, 1278-1284.	3.4	17
25	Multi-site repeatability and reproducibility of MR fingerprinting of the healthy brain at 1.5 and 3.0â€T. NeuroImage, 2019, 195, 362-372.	4.2	67
26	Cortical grey matter sodium accumulation is associated with disability and secondary progressive disease course in relapse-onset multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 755-760.	1.9	24
27	Biâ€exponential ²³Na T₂* component analysis in the human brain. NMR in Biomedicine, 2018, 31, e3899.	2.8	13
28	Imaging intralesional heterogeneity of sodium concentration in multiple sclerosis: Initial evidence from 23 Na-MRI. Journal of the Neurological Sciences, 2018, 387, 111-114.	0.6	10
29	Challenges and Perspectives of Quantitative Functional Sodium Imaging (fNaI). Frontiers in Neuroscience, 2018, 12, 810.	2.8	10
30	Quantification of Total and Intracellular Sodium Concentration in Primary Prostate Cancer and Adjacent Normal Prostate Tissue With Magnetic Resonance Imaging. Investigative Radiology, 2018, 53, 450-456.	6.2	28
31	Sodium (23Na) ultra-short echo time imaging in the human brain using a 3D-Cones trajectory. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 35-46.	2.0	31
32	SODIUM ACCUMULATION IS ASSOCIATED WITH DISABILITY AND PROGRESSION IN MULTIPLE SCLEROSIS: A 23NA MRI STUDY. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, e2.144-e2.	1.9	3
33	Sodium accumulation is associated with disability and a progressive course in multiple sclerosis. Brain, 2013, 136, 2305-2317.	7.6	110
34	Sodium quantification in the spinal cord at 3T. Magnetic Resonance in Medicine, 2013, 69, 1201-1208.	3.0	16