

# Joshua D Kaggie

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,369  
citations

471509

17  
h-index

377865

34  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarised <sup>13</sup> C-MRI identifies the emergence of a glycolytic cell population within intermediate-risk human prostate cancer. <i>Nature Communications</i> , 2022, 13, 466.	12.8	27
2	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
3	Segmentation of knee MRI data with convolutional neural networks for semi-automated three-dimensional surface-based analysis of cartilage morphology and composition. <i>Osteoarthritis Imaging</i> , 2022, 2, 100010.	0.4	6
4	Sodium accumulation in breast cancer predicts malignancy and treatment response. <i>British Journal of Cancer</i> , 2022, 127, 337-349.	6.4	13
5	Deuterium metabolic imaging and hyperpolarized <sup>13</sup> C-MRI of the normal human brain at clinical field strength reveals differential cerebral metabolism. <i>NeuroImage</i> , 2022, 257, 119284.	4.2	27
6	Imaging Glioblastoma Metabolism by Using Hyperpolarized [ <sup>1-<sup>13</sup>C</sup> ]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. <i>Radiology Imaging Cancer</i> , 2022, 4, .	1.6	17
7	Improving the quantitative classification of Erlenmeyer flask deformities. <i>Skeletal Radiology</i> , 2021, 50, 361-369.	2.0	3
8	How to Design AI-Driven Clinical Trials in Nuclear Medicine. <i>Seminars in Nuclear Medicine</i> , 2021, 51, 112-119.	4.6	17
9	Three dimensional MRF obtains highly repeatable and reproducible multi-parametric estimations in the healthy human brain at 1.5T and 3T. <i>NeuroImage</i> , 2021, 226, 117573.	4.2	26
10	Characterization and correction of centerâ€frequency effects in Xâ€nuclear eddy current compensations on a clinical MR system. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2370-2376.	3.0	7
11	Reproducibility of magnetic resonance fingerprinting-based T1 mapping of the healthy prostate at 1.5 and 3.0 T: A proof-of-concept study. <i>PLoS ONE</i> , 2021, 16, e0245970.	2.5	5
12	Dynamic contrast-enhanced MRI of synovitis in knee osteoarthritis: repeatability, discrimination and sensitivity to change in a prospective experimental study. <i>European Radiology</i> , 2021, 31, 5746-5758.	4.5	12
13	Combined <sup>23</sup> Na and <sup>13</sup> C imaging at 3.0 Tesla using a singleâ€tuned large FOV birdcage coil. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1734-1745.	3.0	5
14	Federated learning for predicting clinical outcomes in patients with COVID-19. <i>Nature Medicine</i> , 2021, 27, 1735-1743.	30.7	300
15	Multiparametric MRI of early tumor response to immune checkpoint blockade in metastatic melanoma. , 2021, 9, e003125.		13
16	Hyperpolarized Carbon-13 MRI for Early Response Assessment of Neoadjuvant Chemotherapy in Breast Cancer Patients. <i>Cancer Research</i> , 2021, 81, 6004-6017.	0.9	25
17	Enhancing Distraction Osteogenesis With Carbon Fiber Reinforced Polyether Ether Ketone Bone Pins and a Three-Dimensional Printed Transfer Device to Permit Artifact-Free Three-Dimensional Magnetic Resonance Imaging. <i>Journal of Craniofacial Surgery</i> , 2021, 32, 360-364.	0.7	1
18	Quantitative analysis of the ACL and PCL using T1rho and T2 relaxation time mapping: an exploratory, cross-sectional comparison between OA and healthy control knees. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 916.	1.9	5

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19	Molecular imaging of the prostate: Comparing total sodium concentration quantification in prostate cancer and normal tissue using dedicated <sup>13</sup> C and <sup>23</sup> Na endorectal coils. Journal of Magnetic Resonance Imaging, 2020, 51, 90-97.	3.4	9
20	The optimisation of deep neural networks for segmenting multiple knee joint tissues from MRIs. Computerized Medical Imaging and Graphics, 2020, 86, 101793.	5.8	21
21	The effect of gadolinium-based contrast agent administration on magnetic resonance fingerprinting-based T1 relaxometry in patients with prostate cancer. Scientific Reports, 2020, 10, 20475.	3.3	16
22	Magnetic resonance fingerprinting of the pancreas at 1.5T and 3.0T. Scientific Reports, 2020, 10, 17563.	3.3	12
23	Editorial for "Diffusion Tensor Imaging for Quantitative Assessment of Anterior Cruciate Ligament Injury Grades and Graft". Journal of Magnetic Resonance Imaging, 2020, 52, 1485-1486.	3.4	0
24	Effectively Measuring Exercise-Related Variations in T1 and T2 Relaxation Times of Healthy Articular Cartilage. Journal of Magnetic Resonance Imaging, 2020, 52, 1753-1764.	3.4	9
25	Fast Quantitative Magnetic Resonance Imaging. Synthesis Lectures on Biomedical Engineering, 2020, 15, i-124.	0.1	0
26	Creating a clinical platform for carbon-13 studies using the sodium-23 and proton resonances. Magnetic Resonance in Medicine, 2020, 84, 1817-1827.	3.0	24
27	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
28	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
29	Three-Dimensional Surface-Based Analysis of Cartilage MRI Data in Knee Osteoarthritis: Validation and Initial Clinical Application. Journal of Magnetic Resonance Imaging, 2020, 52, 1139-1151.	3.4	15
30	Ultra Short Echo Time MRI of Iron-Labelled Mesenchymal Stem Cells in an Ovine Osteochondral Defect Model. Scientific Reports, 2020, 10, 8451.	3.3	13
31	Sodium homeostasis in the tumour microenvironment. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1872, 188304.	7.4	69
32	Quantifying normal human brain metabolism using hyperpolarized [ <sup>13</sup> C]pyruvate and magnetic resonance imaging. NeuroImage, 2019, 189, 171-179.	4.2	144
33	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
34	Feasibility of Quantitative Magnetic Resonance Fingerprinting in Ovarian Tumors for T <sub>1</sub> and T <sub>2</sub> Mapping in a PET/MR Setting. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 509-515.	3.7	13
35	Evaluation of the sensitivity of R1-MRI to pH and macromolecular density. Magnetic Resonance Imaging, 2019, 58, 156-161.	1.8	7
36	Multi-site repeatability and reproducibility of MR fingerprinting of the healthy brain at 1.5 and 3.0T. NeuroImage, 2019, 195, 362-372.	4.2	67

#	ARTICLE	IF	CITATIONS
37	Magnetic resonance fingerprinting with dictionary-based fat and water separation (DBFW MRF): A multi-component approach. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3032-3045.	3.0	39
38	Ex vivo MRI cell tracking of autologous mesenchymal stromal cells in an ovine osteochondral defect model. <i>Stem Cell Research and Therapy</i> , 2019, 10, 25.	5.5	37
39	Imaging intralesional heterogeneity of sodium concentration in multiple sclerosis: Initial evidence from 23 Na-MRI. <i>Journal of the Neurological Sciences</i> , 2018, 387, 111-114.	0.6	10
40	T2* Measurement bias due to concomitant gradient fields. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1562-1572.	3.0	8
41	Quantitative sodium magnetic resonance imaging of cartilage, muscle, and tendon. <i>Quantitative Imaging in Medicine and Surgery</i> , 2016, 6, 699-714.	2.0	25
42	Design and Development of a General-Purpose Transmit/Receive (T/R) Switch for 3T MRI, Compatible for a Linear, Quadrature and Double-Tuned RF Coil. <i>Concepts in Magnetic Resonance Part B</i> , 2016, 46B, 56-65.	0.7	16
43	Synchronous radial <sup>1</sup> H and <sup>23</sup> Na dual-nuclear MRI on a clinical MRI system, equipped with a broadband transmit channel. <i>Concepts in Magnetic Resonance Part B</i> , 2016, 46B, 191-201.	0.7	12
44	Sodium MRI radiofrequency coils for body imaging. <i>NMR in Biomedicine</i> , 2016, 29, 107-118.	2.8	23
45	A 3 T sodium and proton composite array breast coil. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 2231-2242.	3.0	40
46	An improved RF and gradient coil system for high resolution in vivo guinea pig cochlea imaging on a 3T clinical magnet. <i>Concepts in Magnetic Resonance Part B</i> , 2014, 44, 89-101.	0.7	0
47	A statistical analysis of the Bloch-Siegert <sup>1</sup> mapping technique. <i>Physics in Medicine and Biology</i> , 2013, 58, 5673-5691.	3.0	14
48	Phase-sensitive sodium <sup>1</sup> mapping. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1125-1130.	3.0	29