

Simon Walker-Samuel

List of Publications by Year in descending order

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44
papers

2,565
citations

394421

19
h-index

254184

43
g-index

56
all docs

56
docs citations

56
times ranked

4932
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 169-186.	27.6	792
2	In vivo imaging of glucose uptake and metabolism in tumors. <i>Nature Medicine</i> , 2013, 19, 1067-1072.	30.7	427
3	Noninvasive Quantification of Solid Tumor Microstructure Using VERDICT MRI. <i>Cancer Research</i> , 2014, 74, 1902-1912.	0.9	185
4	Evaluation of response to treatment using DCE-MRI: the relationship between initial area under the gadolinium curve (IAUGC) and quantitative pharmacokinetic analysis. <i>Physics in Medicine and Biology</i> , 2006, 51, 3593-3602.	3.0	115
5	Imaging intact human organs with local resolution of cellular structures using hierarchical phase-contrast tomography. <i>Nature Methods</i> , 2021, 18, 1532-1541.	19.0	113
6	Gold-silica quantum rattles for multimodal imaging and therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1959-1964.	7.1	107
7	Computational fluid dynamics with imaging of cleared tissue and of in vivo perfusion predicts drug uptake and treatment responses in tumours. <i>Nature Biomedical Engineering</i> , 2018, 2, 773-787.	22.5	91
8	In vivo imaging of tau pathology using multi-parametric quantitative MRI. <i>NeuroImage</i> , 2015, 111, 369-378.	4.2	77
9	Robust estimation of the apparent diffusion coefficient (ADC) in heterogeneous solid tumors. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 420-429.	3.0	50
10	Spatiotemporal dynamics and heterogeneity of renal lymphatics in mammalian development and cystic kidney disease. <i>ELife</i> , 2019, 8, .	6.0	46
11	Exploring \hat{r}^{2*} and \hat{r}^1 as imaging biomarkers of tumor oxygenation. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 429-434.	3.4	44
12	Imaging the accumulation and suppression of tau pathology using multiparametric MRI. <i>Neurobiology of Aging</i> , 2016, 39, 184-194.	3.1	42
13	Insights into cerebral haemodynamics and oxygenation utilising in vivo mural cell imaging and mathematical modelling. <i>Scientific Reports</i> , 2018, 8, 1373.	3.3	36
14	Modelling the transport of fluid through heterogeneous, whole tumours in silico. <i>PLoS Computational Biology</i> , 2019, 15, e1006751.	3.2	35
15	Investigating Low-Velocity Fluid Flow in Tumors with Convection-MRI. <i>Cancer Research</i> , 2018, 78, 1859-1872.	0.9	32
16	Noninvasive diffusion magnetic resonance imaging of brain tumour cell size for the early detection of therapeutic response. <i>Scientific Reports</i> , 2020, 10, 9223.	3.3	29
17	Bayesian estimation of changes in transverse relaxation rates. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 914-921.	3.0	28
18	Is Your System Calibrated? MRI Gradient System Calibration for Pre-Clinical, High-Resolution Imaging. <i>PLoS ONE</i> , 2014, 9, e96568.	2.5	26

#	ARTICLE	IF	CITATIONS
19	Improving apparent diffusion coefficient estimates and elucidating tumor heterogeneity using Bayesian adaptive smoothing. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 438-447.	3.0	24
20	Studies of copper trafficking in a mouse model of Alzheimer's disease by positron emission tomography: comparison of ^{64}Cu acetate and ^{64}Cu GTSM. <i>Metallomics</i> , 2017, 9, 1622-1633.	2.4	20
21	Noninvasive <i>in vivo</i> imaging of vessel calibre in orthotopic prostate tumour xenografts. <i>International Journal of Cancer</i> , 2012, 130, 1284-1293.	5.1	19
22	Hepatic arterial spin labelling MRI: an initial evaluation in mice. <i>NMR in Biomedicine</i> , 2015, 28, 272-280.	2.8	18
23	Quantification of light attenuation in optically cleared mouse brains. <i>Journal of Biomedical Optics</i> , 2015, 20, 080503.	2.6	17
24	Monitoring the Growth of an Orthotopic Tumour Xenograft Model: Multi-Modal Imaging Assessment with Benchtop MRI (1T), High-Field MRI (9.4T), Ultrasound and Bioluminescence. <i>PLoS ONE</i> , 2016, 11, e0156162.	2.5	17
25	MRI measurements of vessel calibre in tumour xenografts: Comparison with vascular corrosion casting. <i>Microvascular Research</i> , 2012, 84, 323-329.	2.5	16
26	Decomposition of spontaneous fluctuations in tumour oxygenation using BOLD MRI and independent component analysis. <i>British Journal of Cancer</i> , 2015, 113, 1168-1177.	6.4	15
27	Evaluation and Immunohistochemical Qualification of Carbogen-Induced r^2^* as a Noninvasive Imaging Biomarker of Improved Tumor Oxygenation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 160-167.	0.8	14
28	Acute changes in liver tumour perfusion measured non-invasively with arterial spin labelling. <i>British Journal of Cancer</i> , 2016, 114, 897-904.	6.4	13
29	Investigating temporal fluctuations in tumor vasculature with combined carbogen and ultrasmall superparamagnetic iron oxide particle (CUSPIO) imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 227-234.	3.0	11
30	Utilizing confocal laser endomicroscopy for evaluating the adequacy of laparoscopic liver ablation. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 299-310.	2.1	10
31	A Multi-Parametric Imaging Investigation of the Response of C6 Glioma Xenografts to MLN0518 (Tandutinib) Treatment. <i>PLoS ONE</i> , 2013, 8, e63024.	2.5	10
32	Evaluation of novel combined carbogen USPIO (CUSPIO) imaging biomarkers in assessing the antiangiogenic effects of cediranib (AZD2171) in rat C6 gliomas. <i>International Journal of Cancer</i> , 2012, 131, 1854-1862.	5.1	9
33	Measuring diffusion exchange across the cell membrane with DEXSY (Diffusion Exchange) Tj ETQq1 1 0.784314 rgBTj/Overlock 10 Tf 50		
34	Use of Caval Subtraction 2D Phase-Contrast MR Imaging to Measure Total Liver and Hepatic Arterial Blood Flow: Preclinical Validation and Initial Clinical Translation. <i>Radiology</i> , 2016, 280, 916-923.	7.3	8
35	Multifluorescence High-Resolution Episcopic Microscopy for 3D Imaging of Adult Murine Organs. <i>Advanced Photonics Research</i> , 2021, 2, 2100110.	3.6	8
36	Noninvasive quantification of oxygen saturation in the portal and hepatic veins in healthy mice and those with colorectal liver metastases using QSM MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2666-2675.	3.0	6

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37	Extracranial measurements of amide proton transfer using exchangeâ€modulated pointâ€resolved spectroscopy (EXPRESS). <i>NMR in Biomedicine</i> , 2012, 25, 829-834.	2.8	5
38	Investigating the Vascular Phenotype of Subcutaneously and Orthotopically Propagated PC3 Prostate Cancer Xenografts Using Combined Carbogen Ultrasmall Superparamagnetic Iron Oxide MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2016, 25, 237-243.	1.2	5
39	Asymmetric Point Spread Function Estimation and Deconvolution for Serial-Sectioning Block-Face Imaging. <i>Communications in Computer and Information Science</i> , 2020, , 235-249.	0.5	5
40	Challenges and opportunities of integrating imaging and mathematical modelling to interrogate biological processes. <i>International Journal of Biochemistry and Cell Biology</i> , 2022, 146, 106195.	2.8	5
41	Liver perfusion MRI in a rodent model of cirrhosis: Agreement with bulkâ€flow phaseâ€contrast MRI and noninvasive evaluation of inflammation in chronic liver disease using flowâ€sensitive alternating inversion recovery arterial spin labelling and tissue T1. <i>NMR in Biomedicine</i> , 2021, 34, e4423.	2.8	4
42	Haemodynamic changes in cirrhosis following terlipressin and induction of sepsisâ€a preclinical study using caval subtraction phase-contrast and cardiac MRI. <i>European Radiology</i> , 2021, 31, 2518-2528.	4.5	3
43	The effect of imatinib therapy on tumour cycling hypoxia, tissue oxygenation and vascular reactivity. <i>Wellcome Open Research</i> , 0, 2, 38.	1.8	2
44	Non-invasive imaging of disrupted protein homeostasis induced by proteasome inhibitor treatment using chemical exchange saturation transfer MRI. <i>Scientific Reports</i> , 2018, 8, 15068.	3.3	0