

# Gavin Hamilton

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

5,137

citations

30

h-index

69

g-index

69

ext. papers

5,921

ext. citations

7.2

avg, IF

5.29

L-index

#	Paper	IF	Citations
67	Quantitative Assessment of Liver Fat with Magnetic Resonance Imaging and Spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 729-749	5.6	509
66	In vivo characterization of the liver fat <sup>1</sup> H MR spectrum. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 784-90	4.4	376
65	Relaxation effects in the quantification of fat using gradient echo imaging. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 347-59	3.3	316
64	Utility of magnetic resonance imaging versus histology for quantifying changes in liver fat in nonalcoholic fatty liver disease trials. <i>Hepatology</i> , <b>2013</b> , 58, 1930-40	11.2	315
63	Nonalcoholic fatty liver disease: MR imaging of liver proton density fat fraction to assess hepatic steatosis. <i>Radiology</i> , <b>2013</b> , 267, 422-31	20.5	306
62	Quantification of hepatic steatosis with T1-independent, T2-corrected MR imaging with spectral modeling of fat: blinded comparison with MR spectroscopy. <i>Radiology</i> , <b>2011</b> , 258, 767-75	20.5	301
61	Quantitative assessment of liver fat with magnetic resonance imaging and spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, spcone-spcone	5.6	294
60	Nonalcoholic fatty liver disease: diagnostic and fat-grading accuracy of low-flip-angle multiecho gradient-recalled-echo MR imaging at 1.5 T. <i>Radiology</i> , <b>2009</b> , 251, 67-76	20.5	258
59	Estimation of hepatic proton-density fat fraction by using MR imaging at 3.0 T. <i>Radiology</i> , <b>2011</b> , 258, 749-59	20.5	215
58	Effect of PRESS and STEAM sequences on magnetic resonance spectroscopic liver fat quantification. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 30, 145-52	5.6	171
57	T(1) independent, T(2) (*) corrected chemical shift based fat-water separation with multi-peak fat spectral modeling is an accurate and precise measure of hepatic steatosis. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 873-81	5.6	161
56	Accuracy of MR imaging-estimated proton density fat fraction for classification of dichotomized histologic steatosis grades in nonalcoholic fatty liver disease. <i>Radiology</i> , <b>2015</b> , 274, 416-25	20.5	158
55	Linearity, Bias, and Precision of Hepatic Proton Density Fat Fraction Measurements by Using MR Imaging: A Meta-Analysis. <i>Radiology</i> , <b>2018</b> , 286, 486-498	20.5	151
54	Combination of complex-based and magnitude-based multiecho water-fat separation for accurate quantification of fat-fraction. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 199-206	4.4	146
53	Reproducibility of MRI-determined proton density fat fraction across two different MR scanner platforms. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 928-34	5.6	111
52	Magnetic resonance imaging and liver histology as biomarkers of hepatic steatosis in children with nonalcoholic fatty liver disease. <i>Hepatology</i> , <b>2015</b> , 61, 1887-95	11.2	107
51	Microbiome Signatures Associated With Steatohepatitis and Moderate to Severe Fibrosis in Children With Nonalcoholic Fatty Liver Disease. <i>Gastroenterology</i> , <b>2019</b> , 157, 1109-1122	13.3	92

50	MR properties of brown and white adipose tissues. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 468-73	5.6	88
49	Diagnostic accuracy of magnetic resonance imaging hepatic proton density fat fraction in pediatric nonalcoholic fatty liver disease. <i>Hepatology</i> , <b>2018</b> , 67, 858-872	11.2	78
48	Magnetic resonance elastography measured shear stiffness as a biomarker of fibrosis in pediatric nonalcoholic fatty liver disease. <i>Hepatology</i> , <b>2017</b> , 66, 1474-1485	11.2	77
47	Multisite, multivendor validation of the accuracy and reproducibility of proton-density fat-fraction quantification at 1.5T and 3T using a fat-water phantom. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 1516-1524	4.4	71
46	Optimal phased-array combination for spectroscopy. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 847-50	3.3	71
45	Liver fat imaging-a clinical overview of ultrasound, CT, and MR imaging. <i>British Journal of Radiology</i> , <b>2018</b> , 91, 20170959	3.4	68
44	Mitochondrial dysfunction in Gulf War illness revealed by 31Phosphorus Magnetic Resonance Spectroscopy: a case-control study. <i>PLoS ONE</i> , <b>2014</b> , 9, e92887	3.7	63
43	Reproducibility of MR-based liver fat quantification across field strength: Same-day comparison between 1.5T and 3T in obese subjects. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 811-7	5.6	56
42	Mapping the double bonds in triglycerides. <i>Magnetic Resonance Imaging</i> , <b>2011</b> , 29, 1041-6	3.3	49
41	Inter-examination precision of magnitude-based MRI for estimation of segmental hepatic proton density fat fraction in obese subjects. <i>Journal of Magnetic Resonance Imaging</i> , <b>2014</b> , 39, 1265-71	5.6	41
40	Effect of flip angle on the accuracy and repeatability of hepatic proton density fat fraction estimation by complex data-based, T1-independent, T2*-corrected, spectrum-modeled MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2014</b> , 39, 440-7	5.6	39
39	Accuracy and the effect of possible subject-based confounders of magnitude-based MRI for estimating hepatic proton density fat fraction in adults, using MR spectroscopy as reference. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 398-406	5.6	39
38	In vivo triglyceride composition of abdominal adipose tissue measured by H MRS at 3T. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 45, 1455-1463	5.6	31
37	Quantifying Abdominal Adipose Tissue and Thigh Muscle Volume and Hepatic Proton Density Fat Fraction: Repeatability and Accuracy of an MR Imaging-based, Semiautomated Analysis Method. <i>Radiology</i> , <b>2017</b> , 283, 438-449	20.5	26
36	In vivo breath-hold (1) H MRS simultaneous estimation of liver proton density fat fraction, and T1 and T2 of water and fat, with a multi-TR, multi-TE sequence. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1538-43	5.6	25
35	Prior knowledge for time domain quantification of in vivo brain or liver 31P MR spectra. <i>NMR in Biomedicine</i> , <b>2003</b> , 16, 168-76	4.4	25
34	Accuracy of multiecho magnitude-based MRI (M-MRI) for estimation of hepatic proton density fat fraction (PDFF) in children. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1223-32	5.6	23
33	Repeatability and reproducibility of 2D and 3D hepatic MR elastography with rigid and flexible drivers at end-expiration and end-inspiration in healthy volunteers. <i>Abdominal Radiology</i> , <b>2017</b> , 42, 2843-2854	3.2854	21

32	MRI proton density fat fraction is robust across the biologically plausible range of triglyceride spectra in adults with nonalcoholic steatohepatitis. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 47, 995-1002	5.6	21
31	Robustness of fat quantification using chemical shift imaging. <i>Magnetic Resonance Imaging</i> , <b>2012</b> , 30, 151-7	3.3	18
30	Effect of echo-sampling strategy on the accuracy of out-of-phase and in-phase multiecho gradient-echo MRI hepatic fat fraction estimation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2014</b> , 39, 567-575	5.6	18
29	Feasibility of and agreement between MR imaging and spectroscopic estimation of hepatic proton density fat fraction in children with known or suspected nonalcoholic fatty liver disease. <i>Abdominal Imaging</i> , <b>2015</b> , 40, 3084-90		17
28	Diagnostic accuracy of hepatic proton density fat fraction measured by magnetic resonance imaging for the evaluation of liver steatosis with histology as reference standard: a meta-analysis. <i>European Radiology</i> , <b>2019</b> , 29, 5180-5189	8	16
27	Cross-sectional correlation between hepatic R2* and proton density fat fraction (PDFF) in children with hepatic steatosis. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 47, 418-424	5.6	16
26	Fat Quantification in the Abdomen. <i>Topics in Magnetic Resonance Imaging</i> , <b>2017</b> , 26, 221-227	2.3	16
25	Accuracy of PDFF estimation by magnitude-based and complex-based MRI in children with MR spectroscopy as a reference. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 1641-1647	5.6	15
24	Optimization of region-of-interest sampling strategies for hepatic MRI proton density fat fraction quantification. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 47, 988-994	5.6	13
23	Sources of systematic error in proton density fat fraction (PDFF) quantification in the liver evaluated from magnitude images with different numbers of echoes. <i>NMR in Biomedicine</i> , <b>2018</b> , 31, e38434	4.4	13
22	Variations due to analysis technique in intracellular pH measurements in simulated and in vivo 31P MR spectra of the human brain. <i>Journal of Magnetic Resonance Imaging</i> , <b>2006</b> , 23, 459-64	5.6	12
21	H MR spectroscopy in the evaluation of the severity of chronic liver disease. <i>Radiology</i> , <b>2003</b> , 226, 288-9	20.5	11
20	Linearity and Bias of Proton Density Fat Fraction as a Quantitative Imaging Biomarker: A Multicenter, Multiplatform, Multivendor Phantom Study. <i>Radiology</i> , <b>2021</b> , 298, 640-651	20.5	10
19	Accuracy of common proton density fat fraction thresholds for magnitude- and complex-based chemical shift-encoded MRI for assessing hepatic steatosis in patients with obesity. <i>Abdominal Radiology</i> , <b>2020</b> , 45, 661-671	3	8
18	Hepatic steatosis and reduction in steatosis following bariatric weight loss surgery differs between segments and lobes. <i>European Radiology</i> , <b>2019</b> , 29, 2474-2480	8	7
17	Agreement between region-of-interest- and parametric map-based hepatic proton density fat fraction estimation in adults with chronic liver disease. <i>Abdominal Radiology</i> , <b>2017</b> , 42, 833-841	3	6
16	Effect of intravenous gadoxetate disodium and flip angle on hepatic proton density fat fraction estimation with six-echo, gradient-recalled-echo, magnitude-based MR imaging at 3T. <i>Abdominal Radiology</i> , <b>2017</b> , 42, 1189-1198	3	5
15	Pilot study on longitudinal change in pancreatic proton density fat fraction during a weight-loss surgery program in adults with obesity. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 1092-1102	5.6	5

14	The relationship between liver triglyceride composition and proton density fat fraction as assessed by H MRS. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4286	4.4	5
13	Inter-reader agreement of magnetic resonance imaging proton density fat fraction and its longitudinal change in a clinical trial of adults with nonalcoholic steatohepatitis. <i>Abdominal Radiology</i> , <b>2019</b> , 44, 482-492	3	5
12	Assessing bioenergetic compromise in autism spectrum disorder with 31P magnetic resonance spectroscopy: preliminary report. <i>Journal of Child Neurology</i> , <b>2014</b> , 29, 187-93	2.5	4
11	Design and evaluation of quantitative MRI phantoms to mimic the simultaneous presence of fat, iron, and fibrosis in the liver. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 734-747	4.4	4
10	Assessment of a high-SNR chemical-shift-encoded MRI with complex reconstruction for proton density fat fraction (PDFF) estimation overall and in the low-fat range. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 229-238	5.6	3
9	Temperature-corrected proton density fat fraction estimation using chemical shift-encoded MRI in phantoms. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 69-81	4.4	3
8	Measurement of spleen fat on MRI-proton density fat fraction arises from reconstruction of noise. <i>Abdominal Radiology</i> , <b>2019</b> , 44, 3295-3303	3	2
7	Repeatability and accuracy of various region-of-interest sampling strategies for hepatic MRI proton density fat fraction quantification. <i>Abdominal Radiology</i> , <b>2021</b> , 46, 3105-3116	3	2
6	T-corrected quantitative chemical shift-encoded MRI. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 2051-2063	4.4	1
5	Prospective comparison of longitudinal change in hepatic proton density fat fraction (PDFF) estimated by magnitude-based MRI (MRI-M) and complex-based MRI (MRI-C). <i>European Radiology</i> , <b>2020</b> , 30, 5120-5129	8	1
4	Quantitative assessment of liver fat with magnetic resonance imaging and spectroscopy <b>2011</b> , 34, 729		1
3	Spectroscopy-based multi-parametric quantification in subjects with liver iron overload at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 597-613	4.4	0
2	Triglyceride Saturation in Patients at Risk of NASH and NAFLD: A Cross-Sectional Study. <i>Biophysica</i> , <b>2022</b> , 2, 8-15		0
1	Non-invasive Quantitative Magnetic Resonance Imaging and Spectroscopic Biomarkers in Nonalcoholic Fatty Liver Disease and Other Cardiometabolic Diseases Associated with Ectopic Fat Deposition <b>2019</b> , 141-160		