

Gavin Hamilton

List of Publications by Year in Descending Order

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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 | Spectroscopy-based multi-parametric quantification in subjects with liver iron overload at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 597-613 | 4.4 | 0 |
| 66 | Triglyceride Saturation in Patients at Risk of NASH and NAFLD: A Cross-Sectional Study. <i>Biophysica</i> , 2022 , 2, 8-15 | | 0 |
| 65 | Linearity and Bias of Proton Density Fat Fraction as a Quantitative Imaging Biomarker: A Multicenter, Multiplatform, Multivendor Phantom Study. <i>Radiology</i> , 2021 , 298, 640-651 | 20.5 | 10 |
| 64 | 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> , 2021 , 85, 734-747 | 4.4 | 4 |
| 63 | Temperature-corrected proton density fat fraction estimation using chemical shift-encoded MRI in phantoms. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 69-81 | 4.4 | 3 |
| 62 | Repeatability and accuracy of various region-of-interest sampling strategies for hepatic MRI proton density fat fraction quantification. <i>Abdominal Radiology</i> , 2021 , 46, 3105-3116 | 3 | 2 |
| 61 | The relationship between liver triglyceride composition and proton density fat fraction as assessed by H MRS. <i>NMR in Biomedicine</i> , 2020 , 33, e4286 | 4.4 | 5 |
| 60 | T-corrected quantitative chemical shift-encoded MRI. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2051-2063 | 4.4 | 1 |
| 59 | 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> , 2020 , 45, 661-671 | 3 | 8 |
| 58 | 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> , 2020 , 30, 5120-5129 | 8 | 1 |
| 57 | Microbiome Signatures Associated With Steatohepatitis and Moderate to Severe Fibrosis in Children With Nonalcoholic Fatty Liver Disease. <i>Gastroenterology</i> , 2019 , 157, 1109-1122 | 13.3 | 92 |
| 56 | Measurement of spleen fat on MRI-proton density fat fraction arises from reconstruction of noise. <i>Abdominal Radiology</i> , 2019 , 44, 3295-3303 | 3 | 2 |
| 55 | Non-invasive Quantitative Magnetic Resonance Imaging and Spectroscopic Biomarkers in Nonalcoholic Fatty Liver Disease and Other Cardiometabolic Diseases Associated with Ectopic Fat Deposition 2019 , 141-160 | | |
| 54 | 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> , 2019 , 29, 5180-5189 | 8 | 16 |
| 53 | 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> , 2019 , 50, 1092-1102 | 5.6 | 5 |
| 52 | 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> , 2019 , 44, 482-492 | 3 | 5 |
| 51 | Hepatic steatosis and reduction in steatosis following bariatric weight loss surgery differs between segments and lobes. <i>European Radiology</i> , 2019 , 29, 2474-2480 | 8 | 7 |

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| 50 | 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> , 2019 , 49, 229-238 | 5.6 | 3 |
| 49 | Liver fat imaging-a clinical overview of ultrasound, CT, and MR imaging. <i>British Journal of Radiology</i> , 2018 , 91, 20170959 | 3.4 | 68 |
| 48 | Cross-sectional correlation between hepatic R2* and proton density fat fraction (PDFF) in children with hepatic steatosis. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 418-424 | 5.6 | 16 |
| 47 | Diagnostic accuracy of magnetic resonance imaging hepatic proton density fat fraction in pediatric nonalcoholic fatty liver disease. <i>Hepatology</i> , 2018 , 67, 858-872 | 11.2 | 78 |
| 46 | 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> , 2018 , 47, 995-1002 | 5.6 | 21 |
| 45 | Optimization of region-of-interest sampling strategies for hepatic MRI proton density fat fraction quantification. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 988-994 | 5.6 | 13 |
| 44 | Linearity, Bias, and Precision of Hepatic Proton Density Fat Fraction Measurements by Using MR Imaging: A Meta-Analysis. <i>Radiology</i> , 2018 , 286, 486-498 | 20.5 | 151 |
| 43 | 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> , 2018 , 31, e3843 | 4.4 | 13 |
| 42 | 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> , 2017 , 77, 1516-1524 | 11.24 | 71 |
| 41 | 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> , 2017 , 42, 1189-1198 | 3 | 5 |
| 40 | 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> , 2017 , 42, 833-841 | 3 | 6 |
| 39 | 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> , 2017 , 283, 438-449 | 20.5 | 26 |
| 38 | Magnetic resonance elastography measured shear stiffness as a biomarker of fibrosis in pediatric nonalcoholic fatty liver disease. <i>Hepatology</i> , 2017 , 66, 1474-1485 | 11.2 | 77 |
| 37 | 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> , 2017 , 42, 2843-2854 | 3.2854 | 21 |
| 36 | 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> , 2017 , 46, 1641-1647 | 5.6 | 15 |
| 35 | Fat Quantification in the Abdomen. <i>Topics in Magnetic Resonance Imaging</i> , 2017 , 26, 221-227 | 2.3 | 16 |
| 34 | In vivo triglyceride composition of abdominal adipose tissue measured by H MRS at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 1455-1463 | 5.6 | 31 |
| 33 | 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> , 2016 , 43, 398-406 | 5.6 | 39 |

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| 32 | 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> , 2015 , 40, 3084-90 | | 17 |
| 31 | 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> , 2015 , 42, 811-7 | 5.6 | 56 |
| 30 | Accuracy of multiecho magnitude-based MRI (M-MRI) for estimation of hepatic proton density fat fraction (PDF) in children. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1223-32 | 5.6 | 23 |
| 29 | 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> , 2015 , 42, 1538-43 | 5.6 | 25 |
| 28 | Accuracy of MR imaging-estimated proton density fat fraction for classification of dichotomized histologic steatosis grades in nonalcoholic fatty liver disease. <i>Radiology</i> , 2015 , 274, 416-25 | 20.5 | 158 |
| 27 | Magnetic resonance imaging and liver histology as biomarkers of hepatic steatosis in children with nonalcoholic fatty liver disease. <i>Hepatology</i> , 2015 , 61, 1887-95 | 11.2 | 107 |
| 26 | Assessing bioenergetic compromise in autism spectrum disorder with 31P magnetic resonance spectroscopy: preliminary report. <i>Journal of Child Neurology</i> , 2014 , 29, 187-93 | 2.5 | 4 |
| 25 | Mitochondrial dysfunction in Gulf War illness revealed by 31Phosphorus Magnetic Resonance Spectroscopy: a case-control study. <i>PLoS ONE</i> , 2014 , 9, e92887 | 3.7 | 63 |
| 24 | 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> , 2014 , 39, 567-73 | 5.6 | 18 |
| 23 | 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> , 2014 , 39, 440-7 | 5.6 | 39 |
| 22 | 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> , 2014 , 39, 1265-71 | 5.6 | 41 |
| 21 | Utility of magnetic resonance imaging versus histology for quantifying changes in liver fat in nonalcoholic fatty liver disease trials. <i>Hepatology</i> , 2013 , 58, 1930-40 | 11.2 | 315 |
| 20 | Nonalcoholic fatty liver disease: MR imaging of liver proton density fat fraction to assess hepatic steatosis. <i>Radiology</i> , 2013 , 267, 422-31 | 20.5 | 306 |
| 19 | Robustness of fat quantification using chemical shift imaging. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 151-7 | 3.3 | 18 |
| 18 | Mapping the double bonds in triglycerides. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1041-6 | 3.3 | 49 |
| 17 | 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> , 2011 , 33, 873-81 | 5.6 | 161 |
| 16 | Quantitative Assessment of Liver Fat with Magnetic Resonance Imaging and Spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 729-749 | 5.6 | 509 |
| 15 | MR properties of brown and white adipose tissues. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 468-73 | 5.6 | 88 |

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| 14 | Reproducibility of MRI-determined proton density fat fraction across two different MR scanner platforms. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 928-34 | 5.6 | 111 |
| 13 | Quantitative assessment of liver fat with magnetic resonance imaging and spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, spcone-spcone | 5.6 | 294 |
| 12 | Combination of complex-based and magnitude-based multiecho water-fat separation for accurate quantification of fat-fraction. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 199-206 | 4.4 | 146 |
| 11 | In vivo characterization of the liver fat ^1H MR spectrum. <i>NMR in Biomedicine</i> , 2011 , 24, 784-90 | 4.4 | 376 |
| 10 | Quantification of hepatic steatosis with T1-independent, T2-corrected MR imaging with spectral modeling of fat: blinded comparison with MR spectroscopy. <i>Radiology</i> , 2011 , 258, 767-75 | 20.5 | 301 |
| 9 | Estimation of hepatic proton-density fat fraction by using MR imaging at 3.0 T. <i>Radiology</i> , 2011 , 258, 749-59 | 20.5 | 215 |
| 8 | Quantitative assessment of liver fat with magnetic resonance imaging and spectroscopy 2011 , 34, 729 | | 1 |
| 7 | Effect of PRESS and STEAM sequences on magnetic resonance spectroscopic liver fat quantification. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 145-52 | 5.6 | 171 |
| 6 | 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> , 2009 , 251, 67-76 | 20.5 | 258 |
| 5 | Relaxation effects in the quantification of fat using gradient echo imaging. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 347-59 | 3.3 | 316 |
| 4 | Optimal phased-array combination for spectroscopy. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 847-50 | 3.3 | 71 |
| 3 | 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> , 2006 , 23, 459-64 | 5.6 | 12 |
| 2 | ^1H MR spectroscopy in the evaluation of the severity of chronic liver disease. <i>Radiology</i> , 2003 , 226, 288-9 | 20.5 | 11 |
| 1 | Prior knowledge for time domain quantification of in vivo brain or liver ^31P MR spectra. <i>NMR in Biomedicine</i> , 2003 , 16, 168-76 | 4.4 | 25 |