

# John Kurhanewicz

## List of Publications by Year in descending order

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134  
papers

9,889  
citations

41258

49  
h-index

37111

96  
g-index

137  
all docs

137  
docs citations

137  
times ranked

6906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Imaging of Patients with Prostate Cancer Using Hyperpolarized [ <sup>13</sup> C]Pyruvate. <i>Science Translational Medicine</i> , 2013, 5, 198ra108.	5.8	1,061
2	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. <i>Neoplasia</i> , 2011, 13, 81-97.	2.3	623
3	Hyperpolarized <sup>13</sup> C Lactate, Pyruvate, and Alanine: Noninvasive Biomarkers for Prostate Cancer Detection and Grading. <i>Cancer Research</i> , 2008, 68, 8607-8615.	0.4	527
4	Combined magnetic resonance imaging and spectroscopic imaging approach to molecular imaging of prostate cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 451-463.	1.9	338
5	Hyperpolarized <sup>13</sup> C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019, 21, 1-16.	2.3	316
6	Quantitative analysis of prostate metabolites using <sup>1</sup> H HR-MAS spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1257-1264.	1.9	242
7	Proton HR-MAS spectroscopy and quantitative pathologic analysis of MRI/3D-MRSI-targeted postsurgical prostate tissues. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 944-954.	1.9	223
8	<sup>13</sup> C-Pyruvate Imaging Reveals Alterations in Glycolysis that Precede c-Myc-Induced Tumor Formation and Regression. <i>Cell Metabolism</i> , 2011, 14, 131-142.	7.2	210
9	Hyperpolarized <sup>13</sup> C MRI: State of the Art and Future Directions. <i>Radiology</i> , 2019, 291, 273-284.	3.6	210
10	OCT1 is a high-capacity thiamine transporter that regulates hepatic steatosis and is a target of metformin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9983-9988.	3.3	203
11	Multiparametric magnetic resonance imaging in prostate cancer: present and future. <i>Current Opinion in Urology</i> , 2008, 18, 71-77.	0.9	198
12	Improved water and lipid suppression for 3D PRESS CSI using rf band selective inversion with gradient dephasing (basing). <i>Magnetic Resonance in Medicine</i> , 1997, 38, 311-321.	1.9	195
13	Evaluation of lactate and alanine as metabolic biomarkers of prostate cancer using <sup>1</sup> H HR-MAS spectroscopy of biopsy tissues. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 510-516.	1.9	189
14	Does Local Recurrence of Prostate Cancer After Radiation Therapy Occur at the Site of Primary Tumor? Results of a Longitudinal MRI and MRSI Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, e787-e793.	0.4	182
15	Fast dynamic 3D MR spectroscopic imaging with compressed sensing and multiband excitation pulses for hyperpolarized <sup>13</sup> C studies. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 610-619.	1.9	181
16	Kinetic modeling of hyperpolarized <sup>13</sup> C1-pyruvate metabolism in normal rats and TRAMP mice. <i>Journal of Magnetic Resonance</i> , 2010, 202, 85-92.	1.2	160
17	Multi-compound polarization by DNP allows simultaneous assessment of multiple enzymatic activities in vivo. <i>Journal of Magnetic Resonance</i> , 2010, 205, 141-147.	1.2	154
18	Noninvasive Detection of Target Modulation following Phosphatidylinositol 3-Kinase Inhibition Using Hyperpolarized <sup>13</sup> C Magnetic Resonance Spectroscopy. <i>Cancer Research</i> , 2010, 70, 1296-1305.	0.4	145

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19	Hyperpolarized <sup>13</sup> C dehydroascorbate as an endogenous redox sensor for in vivo metabolic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18606-18611.	3.3	143
20	Development of methods and feasibility of using hyperpolarized carbon-13 imaging data for evaluating brain metabolism in patient studies. Magnetic Resonance in Medicine, 2018, 80, 864-873.	1.9	134
21	Hyperpolarized 1-[ <sup>13</sup> C]-Pyruvate Magnetic Resonance Imaging Detects an Early Metabolic Response to Androgen Ablation Therapy in Prostate Cancer. European Urology, 2017, 72, 1028-1029.	0.9	127
22	3D compressed sensing for highly accelerated hyperpolarized <sup>13</sup> C MRSI with in vivo applications to transgenic mouse models of cancer. Magnetic Resonance in Medicine, 2010, 63, 312-321.	1.9	126
23	Time-dependent effects of hormone-deprivation therapy on prostate metabolism as detected by combined magnetic resonance imaging and 3D magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2001, 46, 49-57.	1.9	120
24	Pulse sequence for dynamic volumetric imaging of hyperpolarized metabolic products. Journal of Magnetic Resonance, 2008, 193, 139-146.	1.2	116
25	Prostate Cancer Managed with Active Surveillance: Role of Anatomic MR Imaging and MR Spectroscopic Imaging. Radiology, 2010, 256, 176-183.	3.6	116
26	Clinical application of BASING and spectral/spatial water and lipid suppression pulses for prostate cancer staging and localization by in vivo 3D 1H magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2000, 43, 17-22.	1.9	109
27	Imaging of blood flow using hyperpolarized [ <sup>13</sup> C]Urea in preclinical cancer models. Journal of Magnetic Resonance Imaging, 2011, 33, 692-697.	1.9	105
28	Dualband spectral-spatial RF pulses for prostate MR spectroscopic imaging. Magnetic Resonance in Medicine, 2001, 46, 1079-1087.	1.9	103
29	A Hydrogen Peroxide-Responsive Hyperpolarized <sup>13</sup> C MRI Contrast Agent. Journal of the American Chemical Society, 2011, 133, 3776-3779.	6.6	97
30	Hyperpolarized <sup>13</sup> C-Pyruvate Magnetic Resonance Reveals Rapid Lactate Export in Metastatic Renal Cell Carcinomas. Cancer Research, 2013, 73, 529-538.	0.4	95
31	Advances in MR Spectroscopy of the Prostate. Magnetic Resonance Imaging Clinics of North America, 2008, 16, 697-710.	0.6	94
32	Metabolic Reprogramming and Validation of Hyperpolarized <sup>13</sup> C Lactate as a Prostate Cancer Biomarker Using a Human Prostate Tissue Slice Culture Bioreactor. Prostate, 2013, 73, 1171-1181.	1.2	93
33	Reduced-FOV excitation decreases susceptibility artifact in diffusion-weighted MRI with endorectal coil for prostate cancer detection. Magnetic Resonance Imaging, 2015, 33, 56-62.	1.0	86
34	Investigation of tumor hyperpolarized [ <sup>13</sup> C]-pyruvate dynamics using time-resolved multiband RF excitation echo-planar MRSI. Magnetic Resonance in Medicine, 2010, 63, 582-591.	1.9	85
35	The role of magnetic resonance imaging (MRI) in focal therapy for prostate cancer: recommendations from a consensus panel. BJU International, 2014, 113, 218-227.	1.3	80
36	High Resolution <sup>13</sup> C MRI With Hyperpolarized Urea: In Vivo Mapping and <sup>15</sup> N Labeling Effects. IEEE Transactions on Medical Imaging, 2014, 33, 362-371.	5.4	77

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37	Investigation of analysis methods for hyperpolarized <sup>13</sup> C-pyruvate metabolic MRI in prostate cancer patients. <i>NMR in Biomedicine</i> , 2018, 31, e3997.	1.6	77
38	Improved solvent suppression and increased spatial excitation bandwidths for three-dimensional press CSI using phase-compensating spectral/spatial spin-echo pulses. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 745-757.	1.9	71
39	Hyperpolarized <sup>13</sup> C-pyruvate MRI detects real-time metabolic flux in prostate cancer metastases to bone and liver: a clinical feasibility study. <i>Prostate Cancer and Prostatic Diseases</i> , 2020, 23, 269-276.	2.0	68
40	Hyperpolarized <sup>13</sup> C spectroscopy and an NMR-compatible bioreactor system for the investigation of real-time cellular metabolism. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 322-329.	1.9	67
41	Translation of Carbon-13 EPI for hyperpolarized MR molecular imaging of prostate and brain cancer patients. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2702-2709.	1.9	65
42	Single-voxel oversampled J-resolved spectroscopy of in vivo human prostate tissue. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 973-980.	1.9	64
43	Metabolic Profiling of IDH Mutation and Malignant Progression in Infiltrating Glioma. <i>Scientific Reports</i> , 2017, 7, 44792.	1.6	63
44	First hyperpolarized [2- <sup>13</sup> C]pyruvate MR studies of human brain metabolism. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106617.	1.2	63
45	Evaluation of the ERETIC method as an improved quantitative reference for <sup>1</sup> H HR-MAS spectroscopy of prostate tissue. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 525-532.	1.9	62
46	Assessing Prostate Cancer Aggressiveness with Hyperpolarized Dual-Agent 3D Dynamic Imaging of Metabolism and Perfusion. <i>Cancer Research</i> , 2017, 77, 3207-3216.	0.4	60
47	High spatial resolution and speed in MRSI. , 1997, 10, 411-422.		59
48	Noninvasive In Vivo Imaging of Diabetes-Induced Renal Oxidative Stress and Response to Therapy Using Hyperpolarized <sup>13</sup> C Dehydroascorbate Magnetic Resonance. <i>Diabetes</i> , 2015, 64, 344-352.	0.3	59
49	Hyperpolarized <sup>13</sup> C MR for Molecular Imaging of Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1567-1572.	2.8	58
50	Simultaneous multiagent hyperpolarized <sup>13</sup> C perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1599-1609.	1.9	50
51	<sup>31</sup> P spectroscopy of the human prostate gland in vivo using a transrectal probe. <i>Magnetic Resonance in Medicine</i> , 1991, 22, 404-413.	1.9	48
52	Human prostate cancer ZIP1/zinc/citrate genetic/metabolic relationship in the TRAMP prostate cancer animal model. <i>Cancer Biology and Therapy</i> , 2011, 12, 1078-1084.	1.5	47
53	Technique development of 3D dynamic CS-EPSI for hyperpolarized <sup>13</sup> C pyruvate MR molecular imaging of human prostate cancer. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2062-2072.	1.9	47
54	Generation of hyperpolarized substrates by secondary labeling with [1,1- <sup>13</sup> C] acetic anhydride. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5503-5507.	3.3	46

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55	Multiparametric 3T endorectal mri after external beam radiation therapy for prostate cancer. Journal of Magnetic Resonance Imaging, 2012, 36, 430-437.	1.9	43
56	Real-time measurement of hyperpolarized lactate production and efflux as a biomarker of tumor aggressiveness in an MR compatible 3D cell culture bioreactor. NMR in Biomedicine, 2015, 28, 1141-1149.	1.6	43
57	The Role of Lactate Metabolism in Prostate Cancer Progression and Metastases Revealed by Dual-Agent Hyperpolarized <sup>13</sup> C MRSI. Cancers, 2019, 11, 257.	1.7	41
58	Role of endorectal MR imaging and MR spectroscopic imaging in defining treatable intraprostatic tumor foci in prostate cancer: Quantitative analysis of imaging contour compared to whole-mount histopathology. Radiotherapy and Oncology, 2014, 110, 303-308.	0.3	39
59	Caged [ <sup>18</sup> F]FDG Glycosylamines for Imaging Acidic Tumor Microenvironments Using Positron Emission Tomography. Bioconjugate Chemistry, 2016, 27, 170-178.	1.8	38
60	Measuring Dynamic Changes in the Labile Iron Pool in Vivo with a Reactivity-Based Probe for Positron Emission Tomography. ACS Central Science, 2019, 5, 727-736.	5.3	38
61	Zero-field nuclear magnetic resonance of chemically exchanging systems. Nature Communications, 2019, 10, 3002.	5.8	36
62	Detection of localized changes in the metabolism of hyperpolarized gluconeogenic precursors <sup>13</sup> C-lactate and <sup>13</sup> C-pyruvate in kidney and liver. Magnetic Resonance in Medicine, 2017, 77, 1429-1437.	1.9	35
63	Phase I Study of CTT1057, an <sup>18</sup> F-Labeled Imaging Agent with Phosphoramidate Core Targeting Prostate-Specific Membrane Antigen in Prostate Cancer. Journal of Nuclear Medicine, 2019, 60, 910-916.	2.8	35
64	In vivo measurement of normal rat intracellular pyruvate and lactate levels after injection of hyperpolarized [1- <sup>13</sup> C]alanine. Magnetic Resonance Imaging, 2011, 29, 1035-1040.	1.0	34
65	Combined parallel and partial fourier MR reconstruction for accelerated 8-channel hyperpolarized carbon-13 in vivo magnetic resonance Spectroscopic imaging (MRSI). Journal of Magnetic Resonance Imaging, 2013, 38, 701-713.	1.9	34
66	Metabolic, pathologic, and genetic analysis of prostate tissues: quantitative evaluation of histopathologic and mRNA integrity after HR-MAS spectroscopy. NMR in Biomedicine, 2010, 23, 391-398.	1.6	32
67	Correlation of HR-MAS Spectroscopy Derived Metabolite Concentrations With Collagen and Proteoglycan Levels and Thompson Grade in the Degenerative Disc. Spine, 2005, 30, 2683-2688.	1.0	31
68	Diffusion MR of hyperpolarized <sup>13</sup> C molecules in solution. Analyst, The, 2013, 138, 1011.	1.7	31
69	Imaging Renal Urea Handling in Rats at Millimeter Resolution Using Hyperpolarized Magnetic Resonance Relaxometry. Tomography, 2016, 2, 125-137.	0.8	31
70	Metabolic response of prostate cancer to nicotinamide phosphoribosyltransferase inhibition in a hyperpolarized MR/PET compatible bioreactor. Prostate, 2015, 75, 1601-1609.	1.2	30
71	Hyperpolarized <sup>13</sup> C MRI data acquisition and analysis in prostate and brain at University of California, San Francisco. NMR in Biomedicine, 2021, 34, e4280.	1.6	30
72	False positive PSMA PET for tumor remnants in the irradiated prostate and other interpretation pitfalls in a prospective multi-center trial. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 501-508.	3.3	30

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73	Monitoring acute metabolic changes in the liver and kidneys induced by fructose and glucose using hyperpolarized [ <sup>13</sup> C]dihydroxyacetone. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 65-73.	1.9	28
74	Magnetic Resonance Imaging and Spectroscopic Imaging of Prostate Cancer. <i>Cancer Investigation</i> , 2001, 19, 510-523.	0.6	27
75	Rapid in vivo apparent diffusion coefficient mapping of hyperpolarized <sup>13</sup> C metabolites. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 622-633.	1.9	27
76	Hyperpolarized <sup>13</sup> C magnetic resonance evaluation of renal ischemia reperfusion injury in a murine model. <i>NMR in Biomedicine</i> , 2017, 30, e3765.	1.6	27
77	Coil combination methods for multi-channel hyperpolarized <sup>13</sup> C imaging data from human studies. <i>Journal of Magnetic Resonance</i> , 2019, 301, 73-79.	1.2	27
78	Tensor image enhancement and optimal multichannel receiver combination analyses for human hyperpolarized <sup>13</sup> C MRSI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3351-3365.	1.9	27
79	Unsaturation level decreased in bone marrow fat of postmenopausal women with low bone density using high resolution magic angle spinning (HRMAS) <sup>1</sup> H NMR spectroscopy. <i>Bone</i> , 2017, 105, 87-92.	1.4	26
80	Spectrally selective three-dimensional dynamic balanced steady-state free precession for hyperpolarized <sup>13</sup> C metabolic imaging with spectrally selective radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 963-975.	1.9	26
81	Non-Invasive Differentiation of Benign Renal Tumors from Clear Cell Renal Cell Carcinomas Using Clinically Translatable Hyperpolarized <sup>13</sup> C Pyruvate Magnetic Resonance. <i>Tomography</i> , 2016, 2, 35-42.	0.8	26
82	High-Resolution 3-T Endorectal Prostate MRI: A Multireader Study of Radiologist Preference and Perceived Interpretive Quality of 2D and 3D T2-Weighted Fast Spin-Echo MR Images. <i>American Journal of Roentgenology</i> , 2016, 206, 86-91.	1.0	25
83	Direct assessment of renal mitochondrial redox state using hyperpolarized <sup>13</sup> C Acetoacetate. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1862-1869.	1.9	25
84	Methods for metabolic evaluation of prostate cancer cells using proton and <sup>13</sup> C HRMAS spectroscopy and [ <sup>13</sup> C] pyruvate as a metabolic substrate. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1091-1098.	1.9	24
85	Clinical translation of hyperpolarized <sup>13</sup> C pyruvate and urea MRI for simultaneous metabolic and perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 138-149.	1.9	23
86	Non-Invasive Assessment of Lactate Production and Compartmentalization in Renal Cell Carcinomas Using Hyperpolarized <sup>13</sup> C Pyruvate MRI. <i>Cancers</i> , 2018, 10, 313.	1.7	22
87	Generating contrast in hyperpolarized <sup>13</sup> C MRI using ligand-receptor interactions. <i>Analyst, The</i> , 2012, 137, 3427.	1.7	20
88	Development of high resolution 3D hyperpolarized carbon-13 MR molecular imaging techniques. <i>Magnetic Resonance Imaging</i> , 2017, 38, 152-162.	1.0	20
89	Imaging glutathione depletion in the rat brain using ascorbate-derived hyperpolarized MR and PET probes. <i>Scientific Reports</i> , 2018, 8, 7928.	1.6	20
90	Model-based feasibility assessment and evaluation of prostate hyperthermia with a commercial MR-guided endorectal HIFU ablation array. <i>Medical Physics</i> , 2014, 41, 033301.	1.6	19

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91	Separation of extra- and intracellular metabolites using hyperpolarized <sup>13</sup> C diffusion weighted MR. <i>Journal of Magnetic Resonance</i> , 2016, 270, 115-123.	1.2	19
92	Characterization and stratification of prostate lesions based on comprehensive multiparametric MRI using detailed whole-mount histopathology as a reference standard. <i>NMR in Biomedicine</i> , 2017, 30, e3796.	1.6	19
93	Molecular detection of inflammation in cell models using hyperpolarized <sup>13</sup> C-pyruvate. <i>Theranostics</i> , 2018, 8, 3400-3407.	4.6	19
94	Non-invasive detection of divergent metabolic signals in insulin deficiency vs. insulin resistance in vivo. <i>Scientific Reports</i> , 2018, 8, 2088.	1.6	18
95	Simultaneous Metabolic and Perfusion Imaging Using Hyperpolarized <sup>13</sup> C MRI Can Evaluate Early and Dose-Dependent Response to Radiation Therapy in a Prostate Cancer Mouse Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 887-896.	0.4	18
96	Post-processing correction of the endorectal coil reception effects in MR spectroscopic imaging of the prostate. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 654-662.	1.9	17
97	Hyperpolarized 1-[ <sup>13</sup> C]-Pyruvate Magnetic Resonance Imaging Detects an Early Metabolic Response to Immune Checkpoint Inhibitor Therapy in Prostate Cancer. <i>European Urology</i> , 2022, 81, 219-221.	0.9	17
98	Magnetic resonance biomarkers in radiation oncology: The report of AAPM Task Group 294. <i>Medical Physics</i> , 2021, 48, e697-e732.	1.6	16
99	Hyperpolarized <i>in vivo</i> pH imaging reveals grade-dependent acidification in prostate cancer. <i>Oncotarget</i> , 2019, 10, 6096-6110.	0.8	16
100	<sup>18</sup> F Fluorocholine Dynamic Time-of-Flight PET/MR Imaging in Patients with Newly Diagnosed Intermediate- to High-Risk Prostate Cancer: Initial Clinical-Pathologic Comparisons. <i>Radiology</i> , 2017, 282, 429-436.	3.6	15
101	Multiband spectral-spatial RF excitation for hyperpolarized [2- <sup>13</sup> C]dihydroxyacetone <sup>13</sup> C-MR metabolism studies. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1419-1428.	1.9	14
102	Elevated Tumor Lactate and Efflux in High-grade Prostate Cancer demonstrated by Hyperpolarized <sup>13</sup> C Magnetic Resonance Spectroscopy of Prostate Tissue Slice Cultures. <i>Cancers</i> , 2020, 12, 537.	1.7	14
103	Combining hyperpolarized <sup>13</sup> C MRI with a liver-specific gadolinium contrast agent for selective assessment of hepatocyte metabolism. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2356-2363.	1.9	13
104	Cancer recurrence monitoring using hyperpolarized [1- <sup>13</sup> C]pyruvate metabolic imaging in murine breast cancer model. <i>Magnetic Resonance Imaging</i> , 2017, 43, 105-109.	1.0	13
105	Detection of Bacteria-Specific Metabolism Using Hyperpolarized [2- <sup>13</sup> C]Pyruvate. <i>ACS Infectious Diseases</i> , 2018, 4, 797-805.	1.8	13
106	Pulse sequence considerations for quantification of pyruvate to lactate conversion <i>in vivo</i> in hyperpolarized <sup>13</sup> C imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4052.	1.6	13
107	Resistance to Androgen Deprivation Leads to Altered Metabolism in Human and Murine Prostate Cancer Cell and Tumor Models. <i>Metabolites</i> , 2021, 11, 139.	1.3	13
108	Practical aspects of prostate MRI: hardware and software considerations, protocols, and patient preparation. <i>Abdominal Radiology</i> , 2016, 41, 817-830.	1.0	12

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109	Phase I study of dose escalation to dominant intraprostatic lesions using high-dose-rate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2018, 10, 193-201.	0.4	12
110	Improved multiparametric MRI discrimination between low-risk prostate cancer and benign tissues in a small cohort of 5 $\alpha$ -reductase inhibitor treated individuals as compared with an untreated cohort. <i>NMR in Biomedicine</i> , 2017, 30, e3696.	1.6	11
111	Impact of the integration of proton magnetic resonance imaging spectroscopy to PI-RADS 2 for prediction of high grade and high stage prostate cancer. <i>Radiologia Brasileira</i> , 2017, 50, 299-307.	0.3	11
112	Development of specialized magnetic resonance acquisition techniques for human hyperpolarized [ <sup>13</sup> C], [ <sup>15</sup> N] <sub>2</sub> urea + [ <sup>13</sup> C] pyruvate simultaneous perfusion and metabolic imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1039-1054.	1.9	11
113	Hyperpolarized [ <sup>13</sup> C] ketobutyrate, a molecular analog of pyruvate with modified specificity for LDH isoforms. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1894-1900.	1.9	10
114	Assessing high-intensity focused ultrasound treatment of prostate cancer with hyperpolarized [ <sup>13</sup> C] dual-agent imaging of metabolism and perfusion. <i>NMR in Biomedicine</i> , 2019, 32, e3962.	1.6	10
115	Dynamic UltraFast 2D EXchange SpectroscopY (UF-EXSY) of hyperpolarized substrates. <i>Journal of Magnetic Resonance</i> , 2015, 257, 102-109.	1.2	9
116	Sensitivity enhancement for detection of hyperpolarized [ <sup>13</sup> C] MRI probes with <sup>1</sup> H spin coupling introduced by enzymatic transformation in vivo. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 36-41.	1.9	9
117	Tumor metabolism and neurocognition in CNS lymphoma. <i>Neuro-Oncology</i> , 2021, 23, 1668-1679.	0.6	9
118	A pilot study of endorectal magnetic resonance imaging and magnetic resonance spectroscopic imaging changes with dutasteride in patients with low risk prostate cancer. <i>BJU International</i> , 2011, 108, E164-E170.	1.3	8
119	Amino Acid-Derived Sensors for Specific Zn <sup>2+</sup> Detection Using Hyperpolarized [ <sup>13</sup> C] Magnetic Resonance Spectroscopy. <i>Chemistry - A European Journal</i> , 2019, 25, 11842-11846.	1.7	8
120	Using bidirectional chemical exchange for improved hyperpolarized [ <sup>13</sup> C] bicarbonate pH imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 959-972.	1.9	8
121	Measuring glucocorticoid receptor expression <i>in vivo</i> with PET. <i>Oncotarget</i> , 2018, 9, 20399-20408.	0.8	8
122	In vivo hyperpolarization transfer in a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 480-487.	1.9	7
123	NMR quantification of lactate production and efflux and glutamate fractional enrichment in living human prostate biopsies cultured with [1,6- <sup>13</sup> C] <sub>2</sub> glucose. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 566-576.	1.9	7
124	Identification of prostate cancer using multiparametric MR imaging characteristics of prostate tissues referenced to whole mount histopathology. <i>Magnetic Resonance Imaging</i> , 2022, 85, 251-261.	1.0	7
125	CADOnC &#x24D2;: An integrated toolkit for evaluating radiation therapy related changes in the prostate using multiparametric MRI. , 2011, 2011, 2095-2098.		6
126	Specialized computational methods for denoising, B1 correction, and kinetic modeling in hyperpolarized <sup>13</sup> C MR EPSI studies of liver tumors. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2402-2411.	1.9	6

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127	31P magnetic resonance spectroscopy after combined hyperthermia and radiation. Current Eye Research, 1994, 13, 151-156.	0.7	5
128	A domain constrained deformable (DoCD) model for co-registration of pre- and post-radiated prostate MRI. Neurocomputing, 2014, 144, 3-12.	3.5	5
129	Modeling hyperpolarized lactate signal dynamics in cells, patient-derived tissue slice cultures and murine models. NMR in Biomedicine, 2021, 34, e4467.	1.6	5
130	Dynamic diffusion-weighted hyperpolarized <sup>13</sup> C imaging based on a slice-selective double spin echo sequence for measurements of cellular transport. Magnetic Resonance in Medicine, 2019, 81, 2001-2010.	1.9	4
131	The changing role of imaging in clinical care. Nature Reviews Urology, 2014, 11, 75-77.	1.9	3
132	Model-based feasibility assessment and evaluation of prostate hyperthermia with a commercial MR-guided endorectal HIFU ablation array. AIP Conference Proceedings, 2017, , .	0.3	1
133	Using Hyperpolarized NMR to Understand Biochemistry from Cells to Humans. , 2021, , 123-149.		1
134	Hyperpolarized [ <sup>13</sup> C]ketobutyrate, a molecular analog of pyruvate with modified specificity for LDH isoforms. Magnetic Resonance in Medicine, 2016, 75, spcone-spcone.	1.9	0