

Jan Henrik Ardenkjær-Larsen

List of Publications by Year in descending order

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160
papers

11,307
citations

76326

40
h-index

29157

104
g-index

164
all docs

164
docs citations

164
times ranked

5644
citing authors

#	ARTICLE	IF	CITATIONS
1	Increase in signal-to-noise ratio of > 10,000 times in liquid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10158-10163.	7.1	2,484
2	Metabolic Imaging of Patients with Prostate Cancer Using Hyperpolarized [¹³ C]Pyruvate. Science Translational Medicine, 2013, 5, 198ra108.	12.4	1,061
3	Detecting tumor response to treatment using hyperpolarized ¹³ C magnetic resonance imaging and spectroscopy. Nature Medicine, 2007, 13, 1382-1387.	30.7	825
4	Magnetic resonance imaging of pH in vivo using hyperpolarized ¹³ C-labelled bicarbonate. Nature, 2008, 453, 940-943.	27.8	796
5	Metabolic Imaging by Hyperpolarized ¹³ C Magnetic Resonance Imaging for In vivo Tumor Diagnosis. Cancer Research, 2006, 66, 10855-10860.	0.9	602
6	Molecular imaging with endogenous substances. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10435-10439.	7.1	390
7	Hyperpolarized ¹³ C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	5.3	316
8	Overhauser enhanced magnetic resonance imaging for tumor oximetry: Coregistration of tumor anatomy and tissue oxygen concentration. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2216-2221.	7.1	284
9	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 9162-9185.	13.8	258
10	Dynamic nuclear polarization polarizer for sterile use intent. NMR in Biomedicine, 2011, 24, 927-932.	2.8	204
11	On the present and future of dissolution-DNP. Journal of Magnetic Resonance, 2016, 264, 3-12.	2.1	197
12	Generating highly polarized nuclear spins in solution using dynamic nuclear polarization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 526, 173-181.	1.6	141
13	Dynamic Nuclear Polarization with Trityls at 1.2 K. Applied Magnetic Resonance, 2008, 34, 509-522.	1.2	138
14	Dynamic Nuclear Polarization of [¹³ C]pyruvic acid at 4.6 tesla. Journal of Magnetic Resonance, 2009, 197, 167-175.	2.1	130
15	Dynamic in vivo oximetry using overhauser enhanced MR imaging. Journal of Magnetic Resonance Imaging, 2000, 12, 929-938.	3.4	105
16	Imaging of blood flow using hyperpolarized [¹³ C]Urea in preclinical cancer models. Journal of Magnetic Resonance Imaging, 2011, 33, 692-697.	3.4	105
17	Hyperpolarized ¹³ C metabolic imaging using dissolution dynamic nuclear polarization. Journal of Magnetic Resonance Imaging, 2012, 36, 1314-1328.	3.4	98
18	Recycling and Imaging of Nuclear Singlet Hyperpolarization. Journal of the American Chemical Society, 2013, 135, 5084-5088.	13.7	94

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19	Cryogen-free dissolution dynamic nuclear polarization polarizer operating at 3.35 T, 6.70 T, and 10.1 T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2184-2194.	3.0	85
20	In vivo imaging of a stable paramagnetic probe by pulsed-radiofrequency electron paramagnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 409-414.	3.0	84
21	Assessment of early diabetic renal changes with hyperpolarized [¹³ C]pyruvate. <i>Diabetes/Metabolism Research and Reviews</i> , 2013, 29, 125-129.	4.0	83
22	Saturation-recovery metabolic-exchange rate imaging with hyperpolarized [¹³ C] pyruvate using spectral-spatial excitation. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1209-1216.	3.0	76
23	Investigating tumor perfusion and metabolism using multiple hyperpolarized ¹³ C compounds: HP001, pyruvate and urea. <i>Magnetic Resonance Imaging</i> , 2012, 30, 305-311.	1.8	69
24	Manganese Dipyridoxyl Diphosphate: MRI Contrast Agent with Antioxidative and Cardioprotective Properties?. <i>Biochemical and Biophysical Research Communications</i> , 1999, 254, 768-772.	2.1	64
25	High altitude may alter oxygen availability and renal metabolism in diabetics as measured by hyperpolarized [¹³ C]pyruvate magnetic resonance imaging. <i>Kidney International</i> , 2014, 86, 67-74.	5.2	64
26	Study of molecular interactions with ¹³ C DNP-NMR. <i>Journal of Magnetic Resonance</i> , 2010, 203, 52-56.	2.1	59
27	Overhauser-enhanced MR imaging (OMRI). <i>Acta Radiologica</i> , 1998, 39, 10-17.	1.1	58
28	Three-dimensional whole body imaging of spin probes in mice by time-domain radiofrequency electron paramagnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 375-382.	3.0	58
29	Dynamic Imaging of Glucose and Lactate Metabolism by ¹³ C-MRS without Hyperpolarization. <i>Scientific Reports</i> , 2019, 9, 3410.	3.3	56
30	Electron paramagnetic resonance and dynamic nuclear polarization of char suspensions: surface science and oximetry. <i>Physics in Medicine and Biology</i> , 1998, 43, 1907-1920.	3.0	54
31	Hyperpolarized singlet lifetimes of pyruvate in human blood and in the mouse. <i>NMR in Biomedicine</i> , 2013, 26, 1696-1704.	2.8	54
32	Simultaneous Hyperpolarized ¹³ C-Pyruvate MRI and ¹⁸ F-FDG PET (HyperPET) in 10 Dogs with Cancer. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1786-1792.	5.0	54
33	Trityl biradicals and ¹³ C dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5804.	2.8	52
34	Simultaneous multiagent hyperpolarized ¹³ C perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1599-1609.	3.0	50
35	Three-spin solid effect and the spin diffusion barrier in amorphous solids. <i>Science Advances</i> , 2019, 5, eaax2743.	10.3	47
36	Apparent rate constant mapping using hyperpolarized [¹³ C]pyruvate. <i>NMR in Biomedicine</i> , 2014, 27, 1256-1265.	2.8	46

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37	Field dependence of T_1 for hyperpolarized $[^{13}\text{C}]$ pyruvate. Contrast Media and Molecular Imaging, 2013, 8, 57-62.	0.8	45
38	Pilot Study Experiences With Hyperpolarized $[^{13}\text{C}]$ pyruvate MRI in Pancreatic Cancer Patients. Journal of Magnetic Resonance Imaging, 2020, 51, 961-963.	3.4	45
39	Detection of low-populated reaction intermediates with hyperpolarized NMR. Chemical Communications, 2009, , 5168.	4.1	44
40	EPR oxygen imaging and hyperpolarized ^{13}C MRI of pyruvate metabolism as noninvasive biomarkers of tumor treatment response to a glycolysis inhibitor β -bromopyruvate. Magnetic Resonance in Medicine, 2013, 69, 1443-1450.	3.0	44
41	Real-time cardiac metabolism assessed with hyperpolarized $[^{13}\text{C}]$ acetate in a large animal model. Contrast Media and Molecular Imaging, 2015, 10, 194-202.	0.8	44
42	Microwave-gated dynamic nuclear polarization. Physical Chemistry Chemical Physics, 2016, 18, 30530-30535.	2.8	42
43	Assessment of real-time myocardial uptake and enzymatic conversion of hyperpolarized $[^{13}\text{C}]$ pyruvate in pigs using slice selective magnetic resonance spectroscopy. Contrast Media and Molecular Imaging, 2012, 7, 85-94.	0.8	40
44	Insufficient insulin administration to diabetic rats increases substrate utilization and maintains lactate production in the kidney. Physiological Reports, 2014, 2, e12233.	1.7	39
45	In vivo single-shot ^{13}C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding. Journal of Magnetic Resonance, 2014, 240, 8-15.	2.1	38
46	Fumarase activity: an in vivo and in vitro biomarker for acute kidney injury. Scientific Reports, 2017, 7, 40812.	3.3	38
47	High-Frequency Dynamic Nuclear Polarization in the Nuclear Rotating Frame. Journal of Magnetic Resonance, 2000, 144, 134-141.	2.1	37
48	Quantitative dynamic nuclear polarization NMR on blood plasma for assays of drug metabolism. NMR in Biomedicine, 2011, 24, 96-103.	2.8	37
49	Hyperpolarized singlet NMR on a small animal imaging system. Magnetic Resonance in Medicine, 2012, 68, 1262-1265.	3.0	37
50	^{13}C -Angiography. Academic Radiology, 2002, 9, S507-S510.	2.5	36
51	Quantified ^1H imaging with hyperpolarized ^{13}C bicarbonate. Magnetic Resonance in Medicine, 2015, 73, 2274-2282.	3.0	36
52	Efficient Hyperpolarization of ^{13}C -Glucose Using Narrow-Line UV-Generated Labile Free Radicals. Angewandte Chemie - International Edition, 2019, 58, 1334-1339.	13.8	35
53	Measurements of the persistent singlet state of N_2O in blood and other solvents Potential as a magnetic tracer. Magnetic Resonance in Medicine, 2011, 66, 1177-1180.	3.0	34
54	Hyperpolarized ^{13}C urea relaxation mechanism reveals renal changes in diabetic nephropathy. Magnetic Resonance in Medicine, 2016, 75, 515-518.	3.0	34

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55	Liquid-State ¹³ C Polarization of 30% through Photoinduced Nonpersistent Radicals. Journal of Physical Chemistry C, 2018, 122, 7432-7443.	3.1	34
56	Imaging Cerebral 2-Ketoisocaproate Metabolism with Hyperpolarized ¹³ C Magnetic Resonance Spectroscopic Imaging. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1508-1514.	4.3	33
57	Stable Isotope-Resolved Analysis with Quantitative Dissolution Dynamic Nuclear Polarization. Analytical Chemistry, 2018, 90, 674-678.	6.5	32
58	Hyperpolarization via dissolution dynamic nuclear polarization: new technological and methodological advances. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 5-23.	2.0	32
59	The use of dynamic nuclear polarization (13)C-pyruvate MRS in cancer. American Journal of Nuclear Medicine and Molecular Imaging, 2015, 5, 548-60.	1.0	32
60	Imaging Renal Urea Handling in Rats at Millimeter Resolution Using Hyperpolarized Magnetic Resonance Relaxometry. Tomography, 2016, 2, 125-137.	1.8	31
61	<i>In vivo</i> measurement of apparent diffusion coefficients of hyperpolarized ¹³ C-labeled metabolites. NMR in Biomedicine, 2014, 27, 561-569.	2.8	30
62	Gadolinium Effect at High-Magnetic-Field DNP: 70% ¹³ C Polarization of [U- ¹³ C] Glucose Using Trityl. Journal of Physical Chemistry Letters, 2019, 10, 3420-3425.	4.6	30
63	Hyperpolarized water through dissolution dynamic nuclear polarization with UV-generated radicals. Communications Chemistry, 2020, 3, .	4.5	30
64	Large dose hyperpolarized water with dissolution-DNP at high magnetic field. Journal of Magnetic Resonance, 2017, 274, 65-72.	2.1	29
65	Antioxidant treatment attenuates lactate production in diabetic nephropathy. American Journal of Physiology - Renal Physiology, 2017, 312, F192-F199.	2.7	28
66	Hyperpolarized H ₂ O MR angiography. Magnetic Resonance in Medicine, 2014, 71, 50-56.	3.0	26
67	Hyperpolarized MRS surface coil: Design and signal-to-noise ratio estimation. Medical Physics, 2010, 37, 5361-5369.	3.0	24
68	Transient decrease in tumor oxygenation after intravenous administration of pyruvate. Magnetic Resonance in Medicine, 2012, 67, 801-807.	3.0	24
69	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
70	Monitoring mammary tumor progression and effect of tamoxifen treatment in MMTV-PyMT using MRI and magnetic resonance spectroscopy with hyperpolarized [¹³ C]pyruvate. Magnetic Resonance in Medicine, 2015, 73, 51-58.	3.0	23
71	Effects of pyruvate dose on <i>in vivo</i> metabolism and quantification of hyperpolarized ¹³ C spectra. NMR in Biomedicine, 2012, 25, 142-151.	2.8	22
72	Dynamic nuclear polarization and optimal control spatial-selective 13C MRI and MRS. Journal of Magnetic Resonance, 2013, 227, 57-61.	2.1	21

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73	Enhancing the [¹³ C]bicarbonate signal in cardiac hyperpolarized [¹³ C]pyruvate MRS studies by infusion of glucose, insulin and potassium. <i>NMR in Biomedicine</i> , 2013, 26, 1496-1500.	2.8	21
74	Combined hyperpolarized ¹³ C-pyruvate MRS and ¹⁸ F-FDG PET (hyperPET) estimates of glycolysis in canine cancer patients. <i>European Journal of Radiology</i> , 2018, 103, 6-12.	2.6	21
75	Imaging of glucose metabolism by ¹³ C-MRI distinguishes pancreatic cancer subtypes in mice. <i>ELife</i> , 2019, 8, .	6.0	19
76	Hyperpolarized ¹³ C MRS Cardiac Metabolism Studies in Pigs: Comparison Between Surface and Volume Radiofrequency Coils. <i>Applied Magnetic Resonance</i> , 2012, 42, 413-428.	1.2	18
77	How the signal-to-noise ratio influences hyperpolarized ¹³ C dynamic MRS data fitting and parameter estimation. <i>NMR in Biomedicine</i> , 2012, 25, 925-934.	2.8	18
78	Metabolism of hyperpolarized [¹³ C]pyruvate in the isolated perfused rat lung – an ischemia study. <i>NMR in Biomedicine</i> , 2012, 25, 1113-1118.	2.8	18
79	Renal ¹³ C MR angiography and perfusion in the pig using hyperpolarized water. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1131-1135.	3.0	18
80	Magnetic resonance imaging of tumor oxygenation and metabolic profile. <i>Acta Oncologica</i> , 2013, 52, 1248-1256.	1.8	17
81	Dissolution Dynamic Nuclear Polarization of Non-Self-Glassing Agents: Spectroscopy and Relaxation of Hyperpolarized [¹³ C]Acetate. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1885-1893.	2.5	17
82	Hyperpolarized MR – What’s up Doc?. <i>Journal of Magnetic Resonance</i> , 2019, 306, 124-127.	2.1	17
83	Metabolic contrast agents produced from transported solid ¹³ C-glucose hyperpolarized via dynamic nuclear polarization. <i>Communications Chemistry</i> , 2021, 4, .	4.5	17
84	Molecular imaging of tumor photodynamic therapy: Evidence of photosensitized tumor necrosis and hemodynamic changes. <i>Free Radical Biology and Medicine</i> , 2018, 116, 1-10.	2.9	16
85	Stable isotope resolved metabolomics classification of prostate cancer cells using hyperpolarized NMR data. <i>Journal of Magnetic Resonance</i> , 2020, 316, 106750.	2.1	16
86	Cluster formation restricts dynamic nuclear polarization of xenon in solid mixtures. <i>Journal of Chemical Physics</i> , 2012, 137, 104508.	3.0	15
87	Formulation and utilization of choline based samples for dissolution dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2013, 236, 26-30.	2.1	15
88	3D CMR Mapping of Metabolism by Hyperpolarized ¹³ C-Pyruvate in Ischemia-Reperfusion. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 743-744.	5.3	15
89	Real-Time Detection of Intermediates in Rhodium-Catalyzed Hydrogenation of Alkynes and Alkenes by Dissolution DNP. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9949-9956.	3.1	15
90	Low-Noise Active Decoupling Circuit and its Application to ¹³ C Cryogenic RF Coils at 3 T. <i>Magnetic Resonance Tomography</i> , 2017, 3, 60-66.	1.8	14

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91	Dissolution Dynamic Nuclear Polarization capability study with fluid path. Journal of Magnetic Resonance, 2016, 272, 141-146.	2.1	13
92	Simultaneous imaging of hyperpolarized [^{13}C] ₂ fumarate, [^{13}C]pyruvate and [^{18}F]FDG in a rat model of necrosis in a clinical PET/MR scanner. NMR in Biomedicine, 2017, 30, e3803.	2.8	13
93	Design of a local quasi-distributed tuning and matching circuit for dissolution DNP cross polarization. Solid State Nuclear Magnetic Resonance, 2019, 102, 12-20.	2.3	13
94	Magnetic resonance imaging with optical preamplification and detection. Scientific Reports, 2019, 9, 18173.	3.3	13
95	Sensitive optomechanical transduction of electric and magnetic signals to the optical domain. Optics Express, 2019, 27, 18561.	3.4	13
96	DNP Methods for Cardiac Metabolic Imaging with Hyperpolarized [1- ^{13}C]pyruvate Large Dose Injection in Pigs. Applied Magnetic Resonance, 2012, 43, 299-310.	1.2	12
97	Difference between Extracellular and Intracellular T_1 Values of Carboxylic Acids Affects the Quantitative Analysis of Cellular Kinetics by Hyperpolarized NMR. Angewandte Chemie - International Edition, 2016, 55, 13567-13570.	13.8	12
98	Discovery of Intermediates of lacZ β -Galactosidase Catalyzed Hydrolysis Using dDNP NMR. Journal of the American Chemical Society, 2018, 140, 3030-3034.	13.7	12
99	Dynamic coronary MR angiography in a pig model with hyperpolarized water. Magnetic Resonance in Medicine, 2018, 80, 1165-1169.	3.0	12
100	Classification and biomarker identification of prostate tissue from TRAMP mice with hyperpolarized ^{13}C -SIRA. Talanta, 2021, 235, 122812.	5.5	11
101	Increase of signal-to-noise of more than 10,000 times in liquid state NMR. Discovery Medicine, 2003, 3, 37-9.	0.5	11
102	Coil Sensitivity Estimation with Perturbing Sphere Method: Application to ^{13}C Birdcages. Applied Magnetic Resonance, 2012, 42, 511-518.	1.2	10
103	Improved Decoupling for Low Frequency MRI Arrays Using Non-Conventional Preamplifier Impedance. IEEE Transactions on Biomedical Engineering, 2019, 66, 1940-1948.	4.2	10
104	Multi-site benchmarking of clinical ^{13}C RF coils at 3T. Journal of Magnetic Resonance, 2020, 318, 106798.	2.1	10
105	Metabolic MRI with hyperpolarized [^{13}C]pyruvate separates benign oligemia from infarcting penumbra in porcine stroke. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2916-2927.	4.3	10
106	Hyperpolarized Molecules in Solution. Methods in Molecular Biology, 2011, 771, 205-226.	0.9	10
107	Use of the Frank sequence in pulsed EPR. Journal of Magnetic Resonance, 2011, 209, 306-309.	2.1	9
108	Magnetic resonance butterfly coils: Design and application for hyperpolarized ^{13}C studies. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3282-3290.	5.0	9

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109	Design of a quadrature surface coil for hyperpolarized ¹³ C MRS cardiac metabolism studies in pigs. <i>Concepts in Magnetic Resonance Part B</i> , 2013, 43, 69-77.	0.7	9
110	Enhanced performance large volume dissolution-DNP. <i>Journal of Magnetic Resonance</i> , 2014, 240, 90-94.	2.1	9
111	Storage of magnetization as singlet order by optimal control designed pulses. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 921-926.	3.0	9
112	Cryogenic Preamplifiers for Magnetic Resonance Imaging. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 202-210.	4.0	9
113	Coil profile estimation strategies for parallel imaging with hyperpolarized ¹³ C MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2104-2117.	3.0	9
114	Autonomous cryogenic RF receive coil for ¹³ C imaging of rodents at 3 T. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 497-508.	3.0	9
115	[⁶⁸ Ga]Ga-NODAGA-E[(cRGDyK)] ₂ PET and hyperpolarized [¹³ C] pyruvate MRSI (hyperPET) in canine cancer patients: simultaneous imaging of angiogenesis and the Warburg effect. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 395-405.	6.4	8
116	Hyperpolarized ¹³³ Cs is a sensitive probe for real-time monitoring of biophysical environments. <i>Chemical Communications</i> , 2017, 53, 6625-6628.	4.1	7
117	Optimized microwave delivery in dDNP. <i>Journal of Magnetic Resonance</i> , 2019, 305, 58-65.	2.1	7
118	¹³ C Dynamic Nuclear Polarization using SA-BDPA at 6.7 T and 1.1 K: Coexistence of Pure Thermal Mixing and Well-Resolved Solid Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6873-6879.	4.6	7
119	Metabolism of hyperpolarised [¹³ C]pyruvate in awake and anaesthetised rat brains. <i>NMR in Biomedicine</i> , 2022, 35, e4635.	2.8	7
120	Real-Time insight into in vivo redox status utilizing hyperpolarized [¹³ C] N-acetyl cysteine. <i>Scientific Reports</i> , 2021, 11, 12155.	3.3	6
121	Targeted Metabolomics with Quantitative Dissolution Dynamic Nuclear Polarization. <i>Methods in Molecular Biology</i> , 2019, 2037, 385-393.	0.9	6
122	Overhauser-enhanced MR imaging (omri). <i>Acta Radiologica</i> , 1998, 39, 10-17.	1.1	6
123	Low field Overhauser images of the formation process of a hydrogel. <i>Applied Physics Letters</i> , 2002, 80, 160-162.	3.3	5
124	Transmit-Only/Receive-Only Radiofrequency System for Hyperpolarized ¹³ C MRS Cardiac Metabolism Studies in Pigs. <i>Applied Magnetic Resonance</i> , 2013, 44, 1125-1138.	1.2	5
125	Efficiency evaluation of a ¹³ C Magnetic Resonance birdcage coil: Theory and comparison of four methods. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 2201-2205.	5.0	5
126	Hyperpolarized ¹³ C MR Angiography. <i>Current Pharmaceutical Design</i> , 2015, 22, 90-95.	1.9	5

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127	Waveguide transition with vacuum window for multiband dynamic nuclear polarization systems. Review of Scientific Instruments, 2016, 87, 054705.	1.3	5
128	Development of a Symmetric Echo-Planar Spectroscopy Imaging Framework for Hyperpolarized ¹³ C Imaging in a Clinical PET/MR Scanner. Tomography, 2018, 4, 110-122.	1.8	5
129	Pancreatic β -cells respond to fuel pressure with an early metabolic switch. Scientific Reports, 2020, 10, 15413.	3.3	5
130	Unexpected Anomeric Acceptor Preference Observed Using dDNP NMR for Transglycosylation Studies of β -Galactosidases. Biochemistry, 2020, 59, 2903-2908.	2.5	5
131	Three-dimensional accelerated acquisition for hyperpolarized ¹³ C MR with blipped stack of spirals and conjugate gradient SENSE. Magnetic Resonance in Medicine, 2020, 84, 519-534.	3.0	5
132	RF coil design for accurate parallel imaging on ¹³ C MRSI using ²³ Na sensitivity profiles. Magnetic Resonance in Medicine, 0, , .	3.0	5
133	Jet Impingement Melting With Vaporization: A Numerical Study. , 2008, , .		4
134	Detection of 3D Cardiac metabolism after injection of hyperpolarized [1- ¹³ C]pyruvate. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	4
135	Simulation and comparison of coils for Hyperpolarized ¹³ C MRS cardiac metabolism studies in pigs. Measurement: Journal of the International Measurement Confederation, 2015, 60, 78-84.	5.0	4
136	Difference between Extra- and Intracellular T_1 Values of Carboxylic Acids Affects the Quantitative Analysis of Cellular Kinetics by Hyperpolarized NMR. Angewandte Chemie, 2016, 128, 13765-13768.	2.0	4
137	Compact, low-cost NMR spectrometer and probe for dissolution DNP. Journal of Magnetic Resonance, 2019, 304, 7-15.	2.1	4
138	Rapid zero-trans kinetics of Cs ⁺ exchange in human erythrocytes quantified by dissolution hyperpolarized ¹³³ Cs ⁺ NMR spectroscopy. Scientific Reports, 2019, 9, 19726.	3.3	4
139	Efficient Hyperpolarization of ¹³ C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals. Angewandte Chemie, 2019, 131, 1348-1353.	2.0	4
140	UV-Irradiated 2-Keto-(1- ¹³ C)Isocaproic Acid for High-Performance ¹³ C Hyperpolarized MR. Journal of Physical Chemistry C, 2020, 124, 23859-23866.	3.1	4
141	Direct measurement of the triple spin flip rate in dynamic nuclear polarization. Journal of Magnetic Resonance, 2021, 327, 106982.	2.1	4
142	Applications of Hyperpolarized Agents in Solutions. Methods in Molecular Biology, 2011, 771, 655-689.	0.9	4
143	High Intrarenal Lactate Production Inhibits the Renal Pseudohypoxic Response to Acutely Induced Hypoxia in Diabetes. Tomography, 2019, 5, 239-247.	1.8	4
144	Line widths in nitroxides. Research on Chemical Intermediates, 1996, 22, 417-425.	2.7	3

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145	A fast and simple method for calibrating the flip angle in hyperpolarized ¹³ C MRS experiments. Concepts in Magnetic Resonance Part B, 2015, 45, 78-84.	0.7	3
146	Association and Dissociation of Optimal Noise and Input Impedance for Low-Noise Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5290-5299.	4.6	3
147	Detection of lentiviral suicide gene therapy in C6 rat glioma using hyperpolarised [¹³ C]pyruvate. NMR in Biomedicine, 2020, 33, e4250.	2.8	3
148	Matching and decoupling networks for receive-only MRI arrays. , 2020, , .		3
149	Three-element matching networks for receive-only MRI coil decoupling. Magnetic Resonance in Medicine, 2021, 85, 544-550.	3.0	3
150	Imaging Regional Metabolic Changes in the Ischemic Rat Heart In Vivo Using Hyperpolarized [1- ¹³ C]Pyruvate. Tomography, 2017, 3, 123-130.	1.8	3
151	A novel method for coil efficiency estimation: Validation with a ¹³ C birdcage. Concepts in Magnetic Resonance Part B, 2012, 41B, 139-143.	0.7	2
152	Tunable ¹³ C/ ¹ H dual channel matching circuit for dynamic nuclear polarization system with cross-polarization. , 2016, , .		2
153	PIN diode driver for NMR and MRI. Journal of Magnetic Resonance, 2019, 300, 114-119.	2.1	2
154	Radio Frequency Coils for Hyperpolarized ¹³ C Magnetic Resonance Experiments with a 3T MR Clinical Scanner: Experience from a Cardiovascular Lab. Electronics (Switzerland), 2021, 10, 366.	3.1	2
155	Comparison between volume and surface coils for pig cardiac metabolism studies with hyperpolarized ¹³ C MRS. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	1
156	3D cardiac Chemical Shift Imaging of [1- ¹³ C] hyperpolarized acetate and pyruvate in pigs. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P10.	3.3	1
157	A new RF tagging pulse based on the Frank poly-phase perfect sequence. Journal of Magnetic Resonance, 2014, 247, 50-53.	2.1	1
158	Reconstruction methods from hyperpolarized ¹³ C chemical shift imaging spiral 3D data: Comparison between direct summation and gridding method. , 2012, , .		0
159	Towards new vistas in preamplifier design for MRI. , 2017, , .		0
160	Hyperpolarization by Dissolution Dynamic Nuclear Polarization. , 2021, , 1-26.		0