Jessica A M Bastiaansen

List of Publications by Year
in descending order

30	619	567281 15	610901 24
papers	citations	h-index	g-index

31	31	31	1060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Automated transfer and injection of hyperpolarized molecules with polarization measurement prior to in vivo NMR. NMR in Biomedicine, 2013, 26, 1582-1588.	2.8	62
2	In vivo enzymatic activity of acetylCoA synthetase in skeletal muscle revealed by 13C turnover from hyperpolarized [1-13C]acetate to [1-13C]acetylcarnitine. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4171-4178.	2.4	61
3	Folic acid on iron oxide nanoparticles: platform with high potential for simultaneous targeting, MRI detection and hyperthermia treatment of lymph node metastases of prostate cancer. Dalton Transactions, 2017, 46, 12692-12704.	3.3	51
4	Direct Monitoring of Î³â€Glutamyl Transpeptidase Activity In Vivo Using a Hyperpolarized ¹³Câ€Labeled Molecular Probe. Angewandte Chemie - International Edition, 2016, 55, 10626-10629.	13.8	40
5	An intact small animal model of myocardial ischemia-reperfusion: Characterization of metabolic changes by hyperpolarized ¹³C MR spectroscopy. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H2058-H2066.	3.2	36
6	Measuring changes in substrate utilization in the myocardium in response to fasting using hyperpolarized [1-13C]butyrate and [1-13C]pyruvate. Scientific Reports, 2016, 6, 25573.	3.3	34
7	Hyperpolarized ¹³C Magnetic Resonance Spectroscopy Reveals the Rate-Limiting Role of the Bloodâ€“Brain Barrier in the Cerebral Uptake and Metabolism of <scp>l</scp>-Lactate in Vivo. ACS Chemical Neuroscience, 2018, 9, 2554-2562.	3.5	31
8	Direct noninvasive estimation of myocardial tricarboxylic acid cycle flux in vivo using hyperpolarized 13C magnetic resonance. Journal of Molecular and Cellular Cardiology, 2015, 87, 129-137.	1.9	30
9	Tuning Properties of Iron Oxide Nanoparticles in Aqueous Synthesis without Ligands to Improve MRI Relaxivity and SAR. Nanomaterials, 2017, 7, 225.	4.1	30
10	Characterization of perfluorocarbon relaxation times and their influence on the optimization of fluorine-19 MRI at 3 tesla. Magnetic Resonance in Medicine, 2017, 77, 2263-2271.	3.0	25
11	Hyperpolarized 13C lactate as a substrate for in vivo metabolic studies in skeletal muscle. Metabolomics, 2014, 10, 986-994.	3.0	24
12	Flexible water excitation for fatâ€free MRI at 3T using lipid insensitive binomial offâ€resonant RF excitation (LIBRE) pulses. Magnetic Resonance in Medicine, 2018, 79, 3007-3017.	3.0	21
13	Probing cardiac metabolism by hyperpolarized 13<scp>C MR</scp> using an exclusively endogenous substrate mixture and photoâ€induced nonpersistent radicals. Magnetic Resonance in Medicine, 2018, 79, 2451-2459.	3.0	18
14	Natively fatâ€suppressed 5D wholeâ€heart MRI with a radial freeâ€running fastâ€interrupted steadyâ€state (FISS) sequence at 1.5T and 3T. Magnetic Resonance in Medicine, 2020, 83, 45-55.	3.0	18
15	Versatility of Pyridoxal Phosphate as a Coating of Iron Oxide Nanoparticles. Nanomaterials, 2017, 7, 202.	4.1	15
16	Noncontrast free-breathing respiratory self-navigated coronary artery cardiovascular magnetic resonance angiography at 3â€‰T using lipid insensitive binomial off-resonant excitation (LIBRE). Journal of Cardiovascular Magnetic Resonance, 2019, 21, 38.	3.3	15
17	Patient respiratoryâ€triggered quantitative T₂ mapping in the pancreas. Journal of Magnetic Resonance Imaging, 2019, 50, 410-416.	3.4	15
18	Freeâ€running 5D coronary MR angiography at 1.5T using LIBRE water excitation pulses. Magnetic Resonance in Medicine, 2020, 84, 1470-1485.	3.0	15

#	Article	IF	Citations
19	Chelating agents as coating molecules for iron oxide nanoparticles. RSC Advances, 2017, 7, 55598-55609.	3.6	12
20	Simultaneous fatâ€free isotropic 3D anatomical imaging and T₂ mapping of knee cartilage with lipidâ€insensitive binomial offâ€resonant RF excitation (LIBRE) pulses. Journal of Magnetic Resonance Imaging, 2019, 49, 1275-1284.	3.4	11
21	Quantification of myocardial interstitial fibrosis and extracellular volume for the detection of cardiac allograft vasculopathy. International Journal of Cardiovascular Imaging, 2020, 36, 533-542.	1.5	10
22	3-Dimensional magnetic resonance imaging of the freely moving human eye. Progress in Neurobiology, 2020, 194, 101885.	5.7	9
23	Detection of myocardial mediumâ€chain fatty acid oxidation and tricarboxylic acid cycle activity with hyperpolarized [1â€“¹³C]octanoate. NMR in Biomedicine, 2020, 33, e4243.	2.8	8
24	Direct Monitoring of Î³â€Glutamyl Transpeptidase Activity In Vivo Using a Hyperpolarized 13 Câ€Labeled Molecular Probe. Angewandte Chemie, 2016, 128, 10784-10787.	2.0	7
25	ATP and NADPH coated iron oxide nanoparticles for targeting of highly metabolic tumor cells. Journal of Materials Chemistry B, 2017, 5, 8353-8365.	5.8	6
26	Similarityâ€driven multiâ€dimensional binning algorithm (SIMBA) for freeâ€running motionâ€suppressed wholeâ€heart MRA. Magnetic Resonance in Medicine, 2021, 86, 213-229.	3.0	6
27	[13C]bicarbonate labelled from hyperpolarized [1-13C]pyruvate is an in vivo marker of hepatic gluconeogenesis in fasted state. Communications Biology, 2022, 5, 10.	4.4	3
28	MRI. , 2017, , 227-324.		2
29	A robust broadband fatâ€suppressing phaser T 2 â€preparation module for cardiac magnetic resonance imaging at 3T. Magnetic Resonance in Medicine, 2021, 86, 1434-1444.	3.0	2
30	Radicalâ€free hyperpolarized MRI using endogenously occurring pyruvate analogues and UVâ€induced nonpersistent radicals. NMR in Biomedicine, 2021, 34, e4584.	2.8	2