Pernille Rose Jensen

List of Publications by Year
in descending order

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47	2,437	279798	214800
papers	citations	23 h-index	47 g-index

47	47	47	2713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic resonance imaging of pH in vivo using hyperpolarized 13C-labelled bicarbonate. Nature, 2008, 453, 940-943.	27.8	796
2	Production of hyperpolarized [1,4- ¹³ C ₂]malate from [1,4- ¹³ C ₂]fumarate is a marker of cell necrosis and treatment response in tumors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19801-19806.	7.1	328
3	Non-invasive In-cell Determination of Free Cytosolic [NAD+]/[NADH] Ratios Using Hyperpolarized Glucose Show Large Variations in Metabolic Phenotypes. Journal of Biological Chemistry, 2014, 289, 2344-2352.	3.4	98
4	Metabolic pathway visualization in living yeast by DNP-NMR. Molecular BioSystems, 2011, 7, 2834.	2.9	87
5	Tissue-specific Short Chain Fatty Acid Metabolism and Slow Metabolic Recovery after Ischemia from Hyperpolarized NMR in Vivo. Journal of Biological Chemistry, 2009, 284, 36077-36082.	3.4	76
6	Imaging of branched chain amino acid metabolism in tumors with hyperpolarized ¹³C ketoisocaproate. International Journal of Cancer, 2010, 127, 729-736.	5.1	63
7	Real-time detection of central carbon metabolism in livingEscherichia coliand its response to perturbations. FEBS Letters, 2011, 585, 3133-3138.	2.8	63
8	Development of Dissolution DNP-MR Substrates for Metabolic Research. Applied Magnetic Resonance, 2012, 43, 223-236.	1.2	60
9	Study of molecular interactions with 13C DNP-NMR. Journal of Magnetic Resonance, 2010, 203, 52-56.	2.1	59
10	Continuous Molecular Evolution of Protein-Domain Structures by Single Amino Acid Changes. Current Biology, 2007, 17, 173-178.	3.9	56
11	In vivo and in vitro liver cancer metabolism observed with hyperpolarized [5-13C]glutamine. Journal of Magnetic Resonance, 2013, 232, 45-52.	2.1	51
12	Hyperpolarized Amino Acids for In Vivo Assays of Transaminase Activity. Chemistry - A European Journal, 2009, 15, 10010-10012.	3.3	50
13	WhiB7, an Fe-S-dependent Transcription Factor That Activates Species-specific Repertoires of Drug Resistance Determinants in Actinobacteria. Journal of Biological Chemistry, 2013, 288, 34514-34528.	3.4	49
14	Hyperpolarized NMR Probes for Biological Assays. Sensors, 2014, 14, 1576-1597.	3.8	46
15	Detection of low-populated reaction intermediates with hyperpolarized NMR. Chemical Communications, 2009, , 5168.	4.1	44
16	NMR Insights into the Inner Workings of Living Cells. Analytical Chemistry, 2015, 87, 119-132.	6.5	41
17	Quantitative dynamic nuclear polarizationâ€NMR on blood plasma for assays of drug metabolism. NMR in Biomedicine, 2011, 24, 96-103.	2.8	37
18	High-Accuracy Residual1HNâ^'13C and1HNâ^'1HNDipolar Couplings in Perdeuterated Proteins. Journal of the American Chemical Society, 2003, 125, 44-45.	13.7	36

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19	Direct Observation of Metabolic Differences in Living Escherichia Coli Strains Kâ€12 and BL21. ChemBioChem, 2012, 13, 308-310.	2.6	34
20	Kinetic analysis of hexose conversion to methyl lactate by Sn-Beta: effects of substrate masking and of water. Catalysis Science and Technology, 2018, 8, 2137-2145.	4.1	33
21	Stable Isotope-Resolved Analysis with Quantitative Dissolution Dynamic Nuclear Polarization. Analytical Chemistry, 2018, 90, 674-678.	6.5	32
22	Probing treatment response of glutaminolytic prostate cancer cells to natural drugs with hyperpolarized [5â€¹³C]glutamine. Magnetic Resonance in Medicine, 2015, 73, 2296-2305.	3.0	29
23	Sequenceâ€"Structure and Structureâ€"Function Analysis in Cysteine-rich Domains Forming the Ultrastable Nematocyst Wall. Journal of Molecular Biology, 2007, 368, 718-728.	4.2	27
24	Hyperpolarized [1,3â€¹³C₂]ethyl acetoacetate is a novel diagnostic metabolic marker of liver cancer. International Journal of Cancer, 2015, 136, E117-26.	5.1	27
25	Synthesis and Structural Properties of 5,17-Bis(N-methyl-N-arylaminocarbonyl)calix[4]arenes. Directing the Substituents toward the Cavity by Use of the Cis-Generating Property of theN-Methylaminocarbonyl Linker. Journal of Organic Chemistry, 1998, 63, 9872-9879.	3.2	20
26	Realâ€Time DNP NMR Observations of Acetic Acid Uptake, Intracellular Acidification, and of Consequences for Glycolysis and Alcoholic Fermentation in Yeast. Chemistry - A European Journal, 2013, 19, 13288-13293.	3.3	19
27	Structural basis and dynamics of multidrug recognition in a minimal bacterial multidrug resistance system. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5498-507.	7.1	18
28	Stable isotope resolved metabolomics classification of prostate cancer cells using hyperpolarized NMR data. Journal of Magnetic Resonance, 2020, 316, 106750.	2.1	16
29	Difference between Extraâ€and Intracellular T₁ 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
30	Sulfite Action in Glycolytic Inhibition: In Vivo Realâ€Time Observation by Hyperpolarized ¹³C NMR Spectroscopy. ChemBioChem, 2012, 13, 2265-2269.	2.6	11
31	Discovery and Exploration of the Efficient Acyclic Dehydration of Hexoses in Dimethyl Sulfoxide/Water. ChemSusChem, 2019, 12, 5086-5091.	6.8	11
32	Classification and biomarker identification of prostate tissue from TRAMP mice with hyperpolarized 13C-SIRA. Talanta, 2021, 235, 122812.	5.5	11
33	Probing the Lewis Acid Catalyzed Acyclic Pathway of Carbohydrate Conversion in Methanol by In Situ NMR. ChemCatChem, 2019, 11, 5077-5084.	3.7	10
34	Catalytic cycle of carbohydrate dehydration by Lewis acids: structures and rates from synergism of conventional and DNP NMR. Chemical Communications, 2020, 56, 6245-6248.	4.1	10
35	Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucoseâ€"Catalyst Complexes. ACS Sustainable Chemistry and Engineering, 2017, 5, 5571-5577.	6.7	9
36	Enhanced 13C NMR detects extended reaction networks in living cells. Chemical Communications, 2021, 57, 10572-10575.	4.1	9

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37	Combined In-Cell NMR and Simulation Approach to Probe Redox-Dependent Pathway Control. Analytical Chemistry, 2019, 91, 5395-5402.	6.5	8
38	Spectroscopic approaches to resolving ambiguities of hyper-polarized NMR signals from different reaction cascades. Analyst, The, 2016, 141, 823-826.	3.5	7
39	Versatile Procedures for Reliable NMR Quantification of CO₂ Electroreduction Products. Journal of Physical Chemistry C, 2022, 126, 11026-11032.	3.1	7
40	Improved detection of long-range residual dipolar couplings in weakly aligned samples by Lee?Goldburg decoupling of homonuclear dipolar truncation. Journal of Biomolecular NMR, 2004, 30, 443-450.	2.8	6
41	Hyperpolarised organic phosphates as NMR reporters of compartmental pH. Chemical Communications, 2016, 52, 2288-2291.	4.1	6
42	Targeted Metabolomics with Quantitative Dissolution Dynamic Nuclear Polarization. Methods in Molecular Biology, 2019, 2037, 385-393.	0.9	6
43	Pancreatic Î²-cells respond to fuel pressure with an early metabolic switch. Scientific Reports, 2020, 10, 15413.	3.3	5
44	Difference between Extraâ€•and Intracellular T₁ Values of Carboxylic Acids Affects the Quantitative Analysis of Cellular Kinetics by Hyperpolarized NMR. Angewandte Chemie, 2016, 128, 13765-13768.	2.0	4
45	Visualization of Pathway Usage in an Extended Carbohydrate Conversion Network Reveals the Impact of Solvent-Enabled Proton Transfer. ACS Sustainable Chemistry and Engineering, 2020, 8, 12270-12276.	6.7	4
46	Improvement of hydrogen bond geometry in protein NMR structures by residual dipolar couplings â€“ an assessment of the interrelation of NMR restraints. Journal of Biomolecular NMR, 2004, 28, 31-41.	2.8	3
47	Nuclear magnetic resonance as a quantitative tool to study interactions in biomacromolecules. Pure and Applied Chemistry, 2005, 77, 1409-1424.	1.9	3