

# Pernille Rose Jensen

## List of Publications by Year in descending order

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47  
papers

2,437  
citations

279798

23  
h-index

214800

47  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile Procedures for Reliable NMR Quantification of CO <sub>2</sub> Electroreduction Products. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11026-11032.	3.1	7
2	Enhanced <sup>13</sup> C NMR detects extended reaction networks in living cells. <i>Chemical Communications</i> , 2021, 57, 10572-10575.	4.1	9
3	Classification and biomarker identification of prostate tissue from TRAMP mice with hyperpolarized <sup>13</sup> C-SIRA. <i>Talanta</i> , 2021, 235, 122812.	5.5	11
4	Pancreatic $\beta$ -cells respond to fuel pressure with an early metabolic switch. <i>Scientific Reports</i> , 2020, 10, 15413.	3.3	5
5	Visualization of Pathway Usage in an Extended Carbohydrate Conversion Network Reveals the Impact of Solvent-Enabled Proton Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12270-12276.	6.7	4
6	Catalytic cycle of carbohydrate dehydration by Lewis acids: structures and rates from synergism of conventional and DNP NMR. <i>Chemical Communications</i> , 2020, 56, 6245-6248.	4.1	10
7	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
8	Discovery and Exploration of the Efficient Acyclic Dehydration of Hexoses in Dimethyl Sulfoxide/Water. <i>ChemSusChem</i> , 2019, 12, 5086-5091.	6.8	11
9	Probing the Lewis Acid Catalyzed Acyclic Pathway of Carbohydrate Conversion in Methanol by <i>In Situ</i> NMR. <i>ChemCatChem</i> , 2019, 11, 5077-5084.	3.7	10
10	Combined In-Cell NMR and Simulation Approach to Probe Redox-Dependent Pathway Control. <i>Analytical Chemistry</i> , 2019, 91, 5395-5402.	6.5	8
11	Targeted Metabolomics with Quantitative Dissolution Dynamic Nuclear Polarization. <i>Methods in Molecular Biology</i> , 2019, 2037, 385-393.	0.9	6
12	Kinetic analysis of hexose conversion to methyl lactate by Sn-Beta: effects of substrate masking and of water. <i>Catalysis Science and Technology</i> , 2018, 8, 2137-2145.	4.1	33
13	Stable Isotope-Resolved Analysis with Quantitative Dissolution Dynamic Nuclear Polarization. <i>Analytical Chemistry</i> , 2018, 90, 674-678.	6.5	32
14	Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5571-5577.	6.7	9
15	Difference between Extracellular and Intracellular $T_1$ Values of Carboxylic Acids Affects the Quantitative Analysis of Cellular Kinetics by Hyperpolarized NMR. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13567-13570.	13.8	12
16	Difference between Extracellular and Intracellular $T_1$ Values of Carboxylic Acids Affects the Quantitative Analysis of Cellular Kinetics by Hyperpolarized NMR. <i>Angewandte Chemie</i> , 2016, 128, 13765-13768.	2.0	4
17	Hyperpolarised organic phosphates as NMR reporters of compartmental pH. <i>Chemical Communications</i> , 2016, 52, 2288-2291.	4.1	6
18	Spectroscopic approaches to resolving ambiguities of hyper-polarized NMR signals from different reaction cascades. <i>Analyst</i> , 2016, 141, 823-826.	3.5	7

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19	Probing treatment response of glutaminolytic prostate cancer cells to natural drugs with hyperpolarized [ <sup>13</sup> C]glutamine. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2296-2305.	3.0	29
20	Hyperpolarized [1,3- <sup>13</sup> C <sub>2</sub> ]ethyl acetoacetate is a novel diagnostic metabolic marker of liver cancer. <i>International Journal of Cancer</i> , 2015, 136, E117-26.	5.1	27
21	NMR Insights into the Inner Workings of Living Cells. <i>Analytical Chemistry</i> , 2015, 87, 119-132.	6.5	41
22	Hyperpolarized NMR Probes for Biological Assays. <i>Sensors</i> , 2014, 14, 1576-1597.	3.8	46
23	Structural basis and dynamics of multidrug recognition in a minimal bacterial multidrug resistance system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5498-507.	7.1	18
24	Non-invasive In-cell Determination of Free Cytosolic [NAD <sup>+</sup> ]/[NADH] Ratios Using Hyperpolarized Glucose Show Large Variations in Metabolic Phenotypes. <i>Journal of Biological Chemistry</i> , 2014, 289, 2344-2352.	3.4	98
25	In vivo and in vitro liver cancer metabolism observed with hyperpolarized [5- <sup>13</sup> C]glutamine. <i>Journal of Magnetic Resonance</i> , 2013, 232, 45-52.	2.1	51
26	WhiB7, an Fe-S-dependent Transcription Factor That Activates Species-specific Repertoires of Drug Resistance Determinants in Actinobacteria. <i>Journal of Biological Chemistry</i> , 2013, 288, 34514-34528.	3.4	49
27	Real-time DNP NMR Observations of Acetic Acid Uptake, Intracellular Acidification, and of Consequences for Glycolysis and Alcoholic Fermentation in Yeast. <i>Chemistry - A European Journal</i> , 2013, 19, 13288-13293.	3.3	19
28	Sulfite Action in Glycolytic Inhibition: In Vivo Real-time Observation by Hyperpolarized <sup>13</sup> C NMR Spectroscopy. <i>ChemBioChem</i> , 2012, 13, 2265-2269.	2.6	11
29	Development of Dissolution DNP-MR Substrates for Metabolic Research. <i>Applied Magnetic Resonance</i> , 2012, 43, 223-236.	1.2	60
30	Direct Observation of Metabolic Differences in Living <i>Escherichia Coli</i> Strains K12 and BL21. <i>ChemBioChem</i> , 2012, 13, 308-310.	2.6	34
31	Metabolic pathway visualization in living yeast by DNP-NMR. <i>Molecular BioSystems</i> , 2011, 7, 2834.	2.9	87
32	Real-time detection of central carbon metabolism in living <i>Escherichia coli</i> and its response to perturbations. <i>FEBS Letters</i> , 2011, 585, 3133-3138.	2.8	63
33	Quantitative dynamic nuclear polarization-NMR on blood plasma for assays of drug metabolism. <i>NMR in Biomedicine</i> , 2011, 24, 96-103.	2.8	37
34	Study of molecular interactions with <sup>13</sup> C DNP-NMR. <i>Journal of Magnetic Resonance</i> , 2010, 203, 52-56.	2.1	59
35	Imaging of branched chain amino acid metabolism in tumors with hyperpolarized <sup>13</sup> C ketoisocaproate. <i>International Journal of Cancer</i> , 2010, 127, 729-736.	5.1	63
36	Production of hyperpolarized [1,4- <sup>13</sup> C <sub>2</sub> ]malate from [1,4- <sup>13</sup> C <sub>2</sub> ]fumarate is a marker of cell necrosis and treatment response in tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19801-19806.	7.1	328

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37	Hyperpolarized Amino Acids for In Vivo Assays of Transaminase Activity. Chemistry - A European Journal, 2009, 15, 10010-10012.	3.3	50
38	Detection of low-populated reaction intermediates with hyperpolarized NMR. Chemical Communications, 2009, , 5168.	4.1	44
39	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
40	Magnetic resonance imaging of pH in vivo using hyperpolarized <sup>13</sup> C-labelled bicarbonate. Nature, 2008, 453, 940-943.	27.8	796
41	Sequence-Structure and Structure-Function Analysis in Cysteine-rich Domains Forming the Ultrastable Nematocyst Wall. Journal of Molecular Biology, 2007, 368, 718-728.	4.2	27
42	Continuous Molecular Evolution of Protein-Domain Structures by Single Amino Acid Changes. Current Biology, 2007, 17, 173-178.	3.9	56
43	Nuclear magnetic resonance as a quantitative tool to study interactions in biomacromolecules. Pure and Applied Chemistry, 2005, 77, 1409-1424.	1.9	3
44	Improvement of hydrogen bond geometry in protein NMR structures by residual dipolar couplings - an assessment of the interrelation of NMR restraints. Journal of Biomolecular NMR, 2004, 28, 31-41.	2.8	3
45	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
46	High-Accuracy Residual <sup>1</sup> H- <sup>13</sup> C and <sup>1</sup> H- <sup>1</sup> H Dipolar Couplings in Perdeuterated Proteins. Journal of the American Chemical Society, 2003, 125, 44-45.	13.7	36
47	Synthesis and Structural Properties of 5,17-Bis(N-methyl-N-arylamino-carbonyl)calix[4]arenes. Directing the Substituents toward the Cavity by Use of the Cis-Generating Property of the N-Methylamino-carbonyl Linker. Journal of Organic Chemistry, 1998, 63, 9872-9879.	3.2	20