

Samuel F Cousin

List of Publications by Year in descending order

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26
papers

586
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759233

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#	ARTICLE	IF	CITATIONS
1	Simple and cost-effective cross-polarization experiments under dissolution-dynamic nuclear polarization conditions with a 3D-printed ^1H - ^{13}C background-free radiofrequency coil. <i>Journal of Magnetic Resonance Open</i> , 2022, 10-11, 100033.	1.1	3
2	Inversion of Hyperpolarized ^{13}C NMR Signals through Cross-Correlated Cross-Relaxation in Dissolution DNP Experiments. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4599-4610.	2.6	4
3	Pulse sequence and sample formulation optimization for dipolar order mediated ^1H - ^{13}C cross-polarization. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9457-9465.	2.8	6
4	Direct observation of hyperpolarization breaking through the spin diffusion barrier. <i>Science Advances</i> , 2021, 7, .	10.3	26
5	Simultaneous multi-banding and multi-echo phase encoding for the accelerated acquisition of high-resolution volumetric diffusivity maps by spatiotemporally encoded MRI. <i>Magnetic Resonance Imaging</i> , 2021, 79, 130-139.	1.8	5
6	Boosting dissolution-dynamic nuclear polarization by multiple-step dipolar order mediated ^1H - ^{13}C cross-polarization. <i>Journal of Magnetic Resonance Open</i> , 2021, 8-9, 100018.	1.1	3
7	Porous functionalized polymers enable generating and transporting hyperpolarized mixtures of metabolites. <i>Nature Communications</i> , 2021, 12, 4695.	12.8	23
8	Practical dissolution dynamic nuclear polarization. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 126-127, 59-100.	7.5	30
9	An automated system for fast transfer and injection of hyperpolarized solutions. <i>Journal of Magnetic Resonance Open</i> , 2021, 8-9, 100017.	1.1	14
10	Hyperpolarized NMR Metabolomics at Natural ^{13}C Abundance. <i>Analytical Chemistry</i> , 2020, 92, 14867-14871.	6.5	44
11	Theoretical and computational framework for the analysis of the relaxation properties of arbitrary spin systems. Application to high-resolution relaxometry. <i>Journal of Magnetic Resonance</i> , 2020, 313, 106718.	2.1	18
12	Dipolar order mediated ^1H - ^{13}C cross-polarization for dissolution-dynamic nuclear polarization. <i>Magnetic Resonance</i> , 2020, 1, 89-96.	1.9	9
13	Understanding the methyl-TROSY effect over a wide range of magnetic fields. <i>Journal of Chemical Physics</i> , 2019, 150, 224202.	3.0	5
14	Protein Dynamics from Accurate Low-Field Site-Specific Longitudinal and Transverse Nuclear Spin Relaxation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5917-5922.	4.6	11
15	A regularized reconstruction pipeline for high-definition diffusion MRI in challenging regions incorporating a per-shot image correction. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1322-1330.	3.0	21
16	Time-Resolved Protein Side-Chain Motions Unraveled by High-Resolution Relaxometry and Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2018, 140, 13456-13465.	13.7	40
17	Hyperpolarized NMR Spectroscopy: <i>d</i> -DNP, PHIP, and SABRE Techniques. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1857-1871.	3.3	180
18	Looped-PROjected Spectroscopy (L-PROSY): A simple approach to enhance backbone/sidechain cross-peaks in ^1H NMR. <i>Journal of Magnetic Resonance</i> , 2018, 294, 169-180.	2.1	19

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19	Determination of Protein ps-ns Motions by High-Resolution Relaxometry. <i>Methods in Molecular Biology</i> , 2018, 1688, 169-203.	0.9	7
20	Full Correlations across Broad NMR Spectra by Two-Field Total Correlation Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 2772-2776.	2.1	5
21	Convergent synthesis of ¹³ N-labelled Peptidic structures using aqueous [¹³ N]NH ₃ . <i>EJNMMI Radiopharmacy and Chemistry</i> , 2017, 2, 16.	3.9	5
22	Dissolution dynamic nuclear polarization of deuterated molecules enhanced by cross-polarization. <i>Journal of Chemical Physics</i> , 2016, 145, 194203.	3.0	12
23	Protein dynamics from nuclear magnetic relaxation. <i>Chemical Society Reviews</i> , 2016, 45, 2410-2422.	38.1	44
24	Recovering Invisible Signals by Two-Field NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016, 128, 10040-10043.	2.0	3
25	Recovering Invisible Signals by Two-Field NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9886-9889.	13.8	23
26	High-resolution two-field nuclear magnetic resonance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33187-33194.	2.8	26