

Sean Bowen

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

817
citations

623734

14
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

732
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid sample injection for hyperpolarized NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5766.	2.8	118
2	Time-Resolved Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5235-5237.	13.8	111
3	Recycling and Imaging of Nuclear Singlet Hyperpolarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 5084-5088.	13.7	94
4	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
5	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
6	Sequentially acquired two-dimensional NMR spectra from hyperpolarized sample. <i>Journal of Magnetic Resonance</i> , 2009, 199, 159-165.	2.1	49
7	Spontaneous emission of NMR signals in hyperpolarized proton spin systems. <i>Journal of Magnetic Resonance</i> , 2011, 208, 204-209.	2.1	47
8	Large dose hyperpolarized water with dissolution-DNP at high magnetic field. <i>Journal of Magnetic Resonance</i> , 2017, 274, 65-72.	2.1	29
9	Chemical Shift Correlations from Hyperpolarized NMR by Off-Resonance Decoupling. <i>Analytical Chemistry</i> , 2008, 80, 5794-5798.	6.5	27
10	Temporal Chemical Shift Correlations in Reactions Studied by Hyperpolarized Nuclear Magnetic Resonance. <i>Analytical Chemistry</i> , 2009, 81, 4543-4547.	6.5	27
11	Hyperpolarized H ₂ O MR angiography. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 50-56.	3.0	26
12	Applications of dynamic nuclear polarization to the study of reactions and reagents in organic and biomolecular chemistry. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3361.	2.8	21
13	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
14	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
15	Rapid determination of biosynthetic pathways using fractional isotope enrichment and high-resolution dynamic nuclear polarization enhanced NMR. <i>NMR in Biomedicine</i> , 2011, 24, 1016-1022.	2.8	13
16	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. <i>NMR in Biomedicine</i> , 2017, 30, e3803.	2.8	13
17	An NMR Experiment Based on Off-the-Shelf Digital Data-Acquisition Equipment. <i>Journal of Chemical Education</i> , 2010, 87, 747-749.	2.3	10
18	Enhanced performance large volume dissolution-DNP. <i>Journal of Magnetic Resonance</i> , 2014, 240, 90-94.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Storage of magnetization as singlet order by optimal control designed pulses. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 921-926.	3.0	9
20	Waveguide transition with vacuum window for multiband dynamic nuclear polarization systems. <i>Review of Scientific Instruments</i> , 2016, 87, 054705.	1.3	5
21	Modeling of Schottky barrier diode millimeter-wave multipliers at cryogenic temperatures. , 2015, , .		4
22	Detection of lentiviral suicide gene therapy in C6 rat glioma using hyperpolarised [^{13}C]pyruvate. <i>NMR in Biomedicine</i> , 2020, 33, e4250.	2.8	3
23	Tunable $^{13}\text{C}/^1\text{H}$ dual channel matching circuit for dynamic nuclear polarization system with cross-polarization. , 2016, , .		2