

Gregory Lars Olsen

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

809
citations

623734

14
h-index

552781

26
g-index

28
all docs

28
docs citations

28
times ranked

1002
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous frameworks exhibiting multiple stimuli responsiveness. <i>Nature Communications</i> , 2014, 5, 3588.	12.8	146
2	Toward single-shot pure-shift solution ¹ H NMR by trains of BIRD-based homonuclear decoupling. <i>Journal of Magnetic Resonance</i> , 2012, 218, 141-146.	2.1	128
3	Monitoring tat peptide binding to TAR RNA by solid-state ³¹ P- ¹⁹ F REDOR NMR. <i>Nucleic Acids Research</i> , 2005, 33, 3447-3454.	14.5	63
4	Monitoring Mechanistic Details in the Synthesis of Pyrimidines via Real-Time, Ultrafast Multidimensional NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2012, 134, 2706-2715.	13.7	56
5	Solid-State Deuterium NMR Studies Reveal $\hat{1}/4$ s-ns Motions in the HIV-1 Transactivation Response RNA Recognition Site. <i>Journal of the American Chemical Society</i> , 2008, 130, 2896-2897.	13.7	47
6	Optimizing water hyperpolarization and dissolution for sensitivity-enhanced 2D biomolecular NMR. <i>Journal of Magnetic Resonance</i> , 2016, 264, 49-58.	2.1	44
7	Determination of DNA minor groove width in distamycin-DNA complexes by solid-state NMR. <i>Nucleic Acids Research</i> , 2003, 31, 5084-5089.	14.5	38
8	Intermediate Rate Atomic Trajectories of RNA by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 303-308.	13.7	38
9	High-Resolution 2D NMR of Disordered Proteins Enhanced by Hyperpolarized Water. <i>Analytical Chemistry</i> , 2018, 90, 6169-6177.	6.5	36
10	Hydration dependent dynamics in RNA. <i>Journal of Biomolecular NMR</i> , 2009, 45, 133-142.	2.8	35
11	A 300-fold enhancement of imino nucleic acid resonances by hyperpolarized water provides a new window for probing RNA refolding by 1D and 2D NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2449-2455.	7.1	29
12	On The Potential of Dynamic Nuclear Polarization Enhanced Diamonds in Solid-State and Dissolution ¹³ C NMR Spectroscopy. <i>ChemPhysChem</i> , 2016, 17, 2691-2701.	2.1	21
13	Sensitivity-enhanced three-dimensional and carbon-detected two-dimensional NMR of proteins using hyperpolarized water. <i>Journal of Biomolecular NMR</i> , 2020, 74, 161-171.	2.8	17
14	Assessing Site-Specific Enhancements Imparted by Hyperpolarized Water in Folded and Unfolded Proteins by 2D HMQC NMR. <i>Journal of the American Chemical Society</i> , 2020, 142, 9267-9284.	13.7	17
15	A REDOR study of diammonium hydrogen phosphate: A model for distance measurements from adsorbed molecules to surfaces. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 242-250.	2.3	13
16	Slow Exchange Model of Nonrigid Rotational Motion in RNA for Combined Solid-State and Solution NMR Studies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15991-16002.	2.6	11
17	Theory of Nonrigid Rotational Motion Applied to NMR Relaxation in RNA. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12055-12069.	2.5	10
18	Heteronuclear 1D and 2D NMR Resonances Detected by Chemical Exchange Saturation Transfer to Water. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3521-3525.	13.8	10

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19	Natural Abundance, Single-Scan ^{13}C -Based Structural Elucidations by Dissolution DNP NMR. <i>Journal of the American Chemical Society</i> , 2019, 141, 1857-1861.	13.7	10
20	Sensitivity-enhanced detection of non-labile proton and carbon NMR spectra on water resonances. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 56-62.	2.8	9
21	A novel sample handling system for dissolution dynamic nuclear polarization experiments. <i>Magnetic Resonance</i> , 2021, 2, 387-394.	1.9	9
22	Deuterium Magic Angle Spinning NMR Used To Study the Dynamics of Peptides Adsorbed onto Polystyrene and Functionalized Polystyrene Surfaces. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9452-9460.	2.6	8
23	Acquiring and processing ultrafast biomolecular 2D NMR experiments using a referenced-based correction. <i>Journal of Biomolecular NMR</i> , 2016, 66, 141-157.	2.8	6
24	Identification and Rationalization of Kinetic Folding Intermediates for a Low-Density Lipoprotein Receptor Ligand-Binding Module. <i>Biochemistry</i> , 2018, 57, 4776-4787.	2.5	4
25	Homonuclear Decoupling of ^1H Dipolar Interactions in Solids by means of Heteronuclear Recoupling. <i>Israel Journal of Chemistry</i> , 2014, 54, 154-162.	2.3	2
26	Heteronuclear 1D and 2D NMR Resonances Detected by Chemical Exchange Saturation Transfer to Water. <i>Angewandte Chemie</i> , 2017, 129, 3575-3579.	2.0	0