

Loren B Andreas

List of Publications by Year in descending order

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81
papers

3,240
citations

117625

34
h-index

161849

54
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88
all docs

88
docs citations

88
times ranked

2330
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2014, 136, 12489-12497.	13.7	254
2	Structure of fully protonated proteins by proton-detected magic-angle spinning NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9187-9192.	7.1	224
3	Magic Angle Spinning NMR of Proteins: High-Frequency Dynamic Nuclear Polarization and ¹ H Detection. <i>Annual Review of Biochemistry</i> , 2015, 84, 465-497.	11.1	128
4	High-resolution proton-detected NMR of proteins at very fast MAS. <i>Journal of Magnetic Resonance</i> , 2015, 253, 36-49.	2.1	122
5	NMR Spectroscopic Assignment of Backbone and Side-Chain Protons in Fully Protonated Proteins: Microcrystals, Sedimented Assemblies, and Amyloid Fibrils. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15504-15509.	13.8	116
6	Paramagnet induced signal quenching in MAS-DNP experiments in frozen homogeneous solutions. <i>Journal of Magnetic Resonance</i> , 2014, 240, 113-123.	2.1	106
7	Structure and Mechanism of the Influenza A M2 ¹⁸ Dimer of Dimers. <i>Journal of the American Chemical Society</i> , 2015, 137, 14877-14886.	13.7	103
8	Structure of outer membrane protein G in lipid bilayers. <i>Nature Communications</i> , 2017, 8, 2073.	12.8	91
9	Expanding the horizons for structural analysis of fully protonated protein assemblies by NMR spectroscopy at MAS frequencies above 100 kHz. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 117-125.	2.3	88
10	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5861.	2.8	87
11	Magic Angle Spinning NMR Investigation of Influenza A M2 ¹⁸ : Support for an Allosteric Mechanism of Inhibition. <i>Journal of the American Chemical Society</i> , 2010, 132, 10958-10960.	13.7	82
12	Dynamic Nuclear Polarization Study of Inhibitor Binding to the M2 ¹⁸ Proton Transporter from Influenza A. <i>Biochemistry</i> , 2013, 52, 2774-2782.	2.5	66
13	¹ H magic-angle spinning NMR evolves as a powerful new tool for membrane proteins. <i>Journal of Magnetic Resonance</i> , 2018, 287, 140-152.	2.1	65
14	Combining DNP NMR with segmental and specific labeling to study a yeast prion protein strain that is not parallel in-register. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3642-3647.	7.1	63
15	Solid-State NMR Structure Determination from Diagonal-Compensated, Sparsely Nonuniform-Sampled 4D Proton-Proton Restraints. <i>Journal of the American Chemical Society</i> , 2014, 136, 11002-11010.	13.7	61
16	² H-DNP-enhanced ² H- ¹³ C solid-state NMR correlation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5872.	2.8	55
17	Magic-Angle-Spinning NMR of the Drug Resistant S31N M2 Proton Transporter from Influenza A. <i>Journal of the American Chemical Society</i> , 2012, 134, 7215-7218.	13.7	55
18	Selective ¹ H- ¹ H Distance Restraints in Fully Protonated Proteins by Very Fast Magic-Angle Spinning Solid-State NMR. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2399-2405.	4.6	54

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19	Conformational dynamics in crystals reveal the molecular bases for D76N beta-2 microglobulin aggregation propensity. <i>Nature Communications</i> , 2018, 9, 1658.	12.8	53
20	A β -barrel for oil transport through lipid membranes: Dynamic NMR structures of AlkL. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21014-21021.	7.1	52
21	¹ H-Detected Biomolecular NMR under Fast Magic-Angle Spinning. <i>Chemical Reviews</i> , 2022, 122, 9943-10018.	47.7	51
22	Structure Selectivity of Alkaline Periodate Oxidation on Lignocellulose for Facile Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3218-3225.	13.8	50
23	Proton Association Constants of His 37 in the Influenza-A M2 ₁₈₋₆₀ Dimer-of-Dimers. <i>Biochemistry</i> , 2014, 53, 5987-5994.	2.5	48
24	Proton-Based Structural Analysis of a Heptahelical Transmembrane Protein in Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2017, 139, 13006-13012.	13.7	47
25	Crucial role for oxygen functional groups in the oxygen reduction reaction electrocatalytic activity of nitrogen-doped carbons. <i>Electrochimica Acta</i> , 2018, 292, 942-950.	5.2	46
26	Structure of AP205 Coat Protein Reveals Circular Permutation in ssRNA Bacteriophages. <i>Journal of Molecular Biology</i> , 2016, 428, 4267-4279.	4.2	45
27	Co-factor-free aggregation of tau into seeding-competent RNA-sequestering amyloid fibrils. <i>Nature Communications</i> , 2021, 12, 4231.	12.8	45
28	Is protein deuteration beneficial for proton detected solid-state NMR at and above 100 kHz magic-angle spinning?. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 126-136.	2.3	45
29	Protein residue linking in a single spectrum for magic-angle spinning NMR assignment. <i>Journal of Biomolecular NMR</i> , 2015, 62, 253-261.	2.8	44
30	Proton Detected Solid-State NMR of Membrane Proteins at 28 Tesla (1.2 GHz) and 100 kHz Magic-Angle Spinning. <i>Biomolecules</i> , 2021, 11, 752.	4.0	43
31	Insights into the molecular mechanism of amyloid filament formation: Segmental folding of β -synuclein on lipid membranes. <i>Science Advances</i> , 2021, 7, .	10.3	43
32	Local and Global Dynamics in <i>Klebsiella pneumoniae</i> Outer Membrane Protein a in Lipid Bilayers Probed at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1590-1597.	13.7	41
33	Automated Backbone NMR Resonance Assignment of Large Proteins Using Redundant Linking from a Single Simultaneous Acquisition. <i>Journal of the American Chemical Society</i> , 2020, 142, 5793-5799.	13.7	41
34	Secondary Structure in the Core of Amyloid Fibrils Formed from Human β 2m and its Truncated Variant β N6. <i>Journal of the American Chemical Society</i> , 2014, 136, 6313-6325.	13.7	40
35	Lipid bilayer-bound conformation of an integral membrane beta barrel protein by multidimensional MAS NMR. <i>Journal of Biomolecular NMR</i> , 2015, 61, 299-310.	2.8	38
36	Magic Angle Spinning Nuclear Magnetic Resonance Characterization of Voltage-Dependent Anion Channel Gating in Two-Dimensional Lipid Crystalline Bilayers. <i>Biochemistry</i> , 2015, 54, 994-1005.	2.5	34

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37	Structural and molecular basis of cross-seeding barriers in amyloids. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	34
38	Efficient resonance assignment of proteins in MAS NMR by simultaneous intra- and inter-residue 3D correlation spectroscopy. Journal of Biomolecular NMR, 2013, 55, 257-265.	2.8	32
39	Imidazoleâ€“Imidazole Hydrogen Bonding in the pH-Sensing Histidine Side Chains of Influenza A M2. Journal of the American Chemical Society, 2020, 142, 2704-2708.	13.7	32
40	Structure and reactivity of [(L ⁺ Pd) n ⁻ (1,5-cyclooctadiene)] (n = 1â€“2) complexes bearing biaryl phosphine ligands. Inorganica Chimica Acta, 2014, 422, 188-192.	2.4	30
41	Dynamic Nuclear Polarization of ¹³ C Nuclei in the Liquid State over a 10â€“Tesla Field Range. Angewandte Chemie - International Edition, 2019, 58, 1402-1406.	13.8	30
42	Amantadine inhibits known and novel ion channels encoded by SARS-CoV-2 in vitro. Communications Biology, 2021, 4, 1347.	4.4	29
43	Structure, gating and interactions of the voltage-dependent anion channel. European Biophysics Journal, 2021, 50, 159-172.	2.2	28
44	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 12571-12575.	13.8	25
45	Probing Membrane Protein Insertion into Lipid Bilayers by Solidâ€“State NMR. ChemPhysChem, 2019, 20, 302-310.	2.1	24
46	Determination of Global Structure from Distance and Orientation Constraints in Biological Solids Using Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 15233-15239.	13.7	23
47	Correcting for magnetic field drift in magic-angle spinning NMR datasets. Journal of Magnetic Resonance, 2019, 305, 1-4.	2.1	22
48	The Molecular Basis of the Interaction of Cyclophilinâ€“A with Î±â€“Synuclein. Angewandte Chemie - International Edition, 2020, 59, 5643-5646.	13.8	20
49	Atomic resolution dynamics of cohesive interactions in phase-separated Nup98 FG domains. Nature Communications, 2022, 13, 1494.	12.8	20
50	Alpha protons as NMR probes in deuterated proteins. Journal of Biomolecular NMR, 2019, 73, 81-91.	2.8	19
51	Zuordnung der R ¹ / ₂ â€“ und Seitenkettenâ€“Protonen in vollst ¹ endig protonierten Proteinen durch Festk ¹ orperâ€“NMRâ€“Spektroskopie: Mikrokristalle, Sedimente und Amyloidfibrillen. Angewandte Chemie, 2016, 128, 15730-15735.	2.0	18
52	Catalysis of proline isomerization and molecular chaperone activity in a tug-of-war. Nature Communications, 2020, 11, 6046.	12.8	18
53	Recyclable Ruthenium Catalyst for Distal <i>meta</i> -Câ€“H Activation. Chemistry - A European Journal, 2020, 26, 15290-15297.	3.3	18
54	Helical Fibers via Evaporationâ€“Driven Selfâ€“Assembly of Surfaceâ€“Acylated Cellulose Nanowhiskers. Angewandte Chemie - International Edition, 2018, 57, 16323-16328.	13.8	17

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55	Solid-state NMR investigation of the involvement of the P2 region in tau amyloid fibrils. <i>Scientific Reports</i> , 2020, 10, 21210.	3.3	16
56	Structure and Gating Behavior of the Human Integral Membrane Protein VDAC1 in a Lipid Bilayer. <i>Journal of the American Chemical Society</i> , 2022, 144, 2953-2967.	13.7	14
57	Spontaneous Enhancement of Magnetic Resonance Signals Using a RASER. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20984-20990.	13.8	13
58	Towards a native environment: structure and function of membrane proteins in lipid bilayers by NMR. <i>Chemical Science</i> , 2021, 12, 14332-14342.	7.4	12
59	Pore-Bound Water at the Key Residue Histidine...37 in Influenza...M2. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24075-24079.	13.8	12
60	High-resolution solid-state NMR structure of Alanyl-Prolyl-Glycine. <i>Journal of Magnetic Resonance</i> , 2009, 200, 95-100.	2.1	11
61	Macroscale Helices Co-Assembled from Chirality-Transferring Temperature-Responsive Carbohydrate-Based Bolaamphiphiles and 1,4-Benzenediboronic Acid. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9712-9718.	13.8	10
62	Resonance assignment of the outer membrane protein AlkL in lipid bilayers by proton-detected solid-state NMR. <i>Biomolecular NMR Assignments</i> , 2020, 14, 295-300.	0.8	9
63	Transferred-Rotational-Echo Double Resonance. <i>Journal of Physical Chemistry A</i> , 2021, 125, 754-769.	2.5	9
64	Modest Offset Difference Internuclear Selective Transfer via Homonuclear Dipolar Coupling. <i>Journal of Physical Chemistry Letters</i> , 2022, , 1540-1546.	4.6	9
65	Direct nitrogen interception from chitin/chitosan for imidazo[1,5- <i>i></i> a</i>]pyridines. <i>Chemical Communications</i> , 2022, 58, 6068-6071.	4.1	8
66	Direct Detection of Bound Ammonium Ions in the Selectivity Filter of Ion Channels by Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2022, 144, 4147-4157.	13.7	7
67	Spontaneous Enhancement of Magnetic Resonance Signals Using a RASER. <i>Angewandte Chemie</i> , 2021, 133, 21152-21158.	2.0	5
68	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 12745-12749.	2.0	4
69	Centerband-Only Detection of Exchange NMR with Natural Abundance Correction Reveals an Expanded Unit Cell in Phenylalanine Crystals. <i>ChemPhysChem</i> , 2020, 21, 1622-1626.	2.1	4
70	Dynamic Nuclear Polarization of ¹³ C Nuclei in the Liquid State over a 10...Tesla Field Range. <i>Angewandte Chemie</i> , 2019, 131, 1416-1420.	2.0	3
71	Heteronuclear and homonuclear radio-frequency-driven recoupling. <i>Magnetic Resonance</i> , 2021, 2, 343-353.	1.9	3
72	Membrane-embedded TSPO: an NMR view. <i>European Biophysics Journal</i> , 2021, 50, 173-180.	2.2	3

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73	Frontispiece: NMR Spectroscopic Assignment of Backbone and Side-Chain Protons in Fully Protonated Proteins: Microcrystals, Sedimented Assemblies, and Amyloid Fibrils. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	13.8	2
74	The Small Molecule anle138b Shows Interaction with α -Synuclein Oligomers in Phospholipid Membranes. <i>Biophysical Journal</i> , 2018, 114, 560a.	0.5	2
75	Protein-Drug Interactions in the Membrane: The Small Molecule Anle138b and its Binding to α -Synuclein Oligomers. <i>Biophysical Journal</i> , 2019, 116, 352a.	0.5	2
76	Backbone Torsion Angle Determination Using Proton Detected Magic-Angle Spinning Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 18-24.	4.6	2
77	Orphan spin operator diagonal suppression. <i>Journal of Magnetic Resonance Open</i> , 2022, 10-11, 100025.	1.1	1
78	Investigating VDAC Gating via Magic Angle Spinning NMR and Electrophysiological Measurements Under Extreme pH Conditions: Implications for the Voltage-Gating Mechanism. <i>Biophysical Journal</i> , 2011, 100, 8a-9a.	0.5	0
79	The Molecular Basis of the Interaction of CyclophilinA with α -Synuclein. <i>Angewandte Chemie</i> , 2020, 132, 5692-5695.	2.0	0
80	Centerband-Only Detection of Exchange NMR with Natural Abundance Correction Reveals an Expanded Unit Cell in Phenylalanine Crystals. <i>ChemPhysChem</i> , 2020, 21, 1621-1621.	2.1	0
81	Pore bound water at the key residue histidine37 in Influenza A M2. <i>Angewandte Chemie</i> , 2021, 133, 24277.	2.0	0