JÃ³zef R Lewandowski

List of Publications by Year
in descending order

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55 papers	3,287 citations	147801 31 h-index	155660 55 g-index
59 all docs	59 docs citations	59 times ranked	3051 citing authors

#	Article	IF	Citations
1	Dynamic Nuclear Polarization of Amyloidogenic Peptide Nanocrystals:Â GNNQQNY, a Core Segment of the Yeast Prion Protein Sup35p. Journal of the American Chemical Society, 2006, 128, 10840-10846.	13.7	255
2	Direct observation of hierarchical protein dynamics. Science, 2015, 348, 578-581.	12.6	222
3	The SARS-COV-2 Spike Protein Binds Sialic Acids and Enables Rapid Detection in a Lateral Flow Point of Care Diagnostic Device. ACS Central Science, 2020, 6, 2046-2052.	11.3	222
4	Proton assisted recoupling and protein structure determination. Journal of Chemical Physics, 2008, 129, 245101.	3.0	183
5	Solid-State NMR Study of Amyloid Nanocrystals and Fibrils Formed by the Peptide GNNQQNY from Yeast Prion Protein Sup35p. Journal of the American Chemical Society, 2007, 129, 5117-5130.	13.7	177
6	Proton Assisted Insensitive Nuclei Cross Polarization. Journal of the American Chemical Society, 2007, 129, 728-729.	13.7	163
7	Huntingtin exon 1 fibrils feature an interdigitated Î²-hairpinâ€“based polyglutamine core. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1546-1551.	7.1	143
8	Enhanced Resolution and Coherence Lifetimes in the Solid-State NMR Spectroscopy of Perdeuterated Proteins under Ultrafast Magic-Angle Spinning. Journal of Physical Chemistry Letters, 2011, 2, 2205-2211.	4.6	123
9	High-Resolution Solid-State NMR Structure of a 17.6 kDa Protein. Journal of the American Chemical Society, 2010, 132, 1032-1040.	13.7	117
10	Site-Specific Measurement of Slow Motions in Proteins. Journal of the American Chemical Society, 2011, 133, 16762-16765.	13.7	105
11	Structural Complexity of a Composite Amyloid Fibril. Journal of the American Chemical Society, 2011, 133, 14686-14698.	13.7	88
12	Advances in Solid-State Relaxation Methodology for Probing Site-Specific Protein Dynamics. Accounts of Chemical Research, 2013, 46, 2018-2027.	15.6	88
13	Measurement of Site-Specific ¹³C Spinâ^'Lattice Relaxation in a Crystalline Protein. Journal of the American Chemical Society, 2010, 132, 8252-8254.	13.7	80
14	1H line width dependence on MAS speed in solid state NMR â€“ Comparison of experiment and simulation. Journal of Magnetic Resonance, 2018, 291, 32-39.	2.1	80
15	Conformational Dynamics of a Seven Transmembrane Helical Protein Anabaena Sensory Rhodopsin Probed by Solid-State NMR. Journal of the American Chemical Society, 2014, 136, 2833-2842.	13.7	78
16	Solid-State NMR of a Protein in a Precipitated Complex with a Full-Length Antibody. Journal of the American Chemical Society, 2014, 136, 16800-16806.	13.7	73
17	Structural Characterization of GNNQQNY Amyloid Fibrils by Magic Angle Spinning NMR. Biochemistry, 2010, 49, 9457-9469.	2.5	66
18	Proton Assisted Recoupling at High Spinning Frequencies. Journal of Physical Chemistry B, 2009, 113, 9062-9069.	2.6	63

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19	Broadband Homonuclear Correlation Spectroscopy at High Magnetic Fields and MAS Frequencies. Journal of the American Chemical Society, 2006, 128, 1776-1777.	13.7	59
20	¹⁵Nâ^'¹⁵N Proton Assisted Recoupling in Magic Angle Spinning NMR. Journal of the American Chemical Society, 2009, 131, 5769-5776.	13.7	56
21	Spin dynamics in the modulation frame: Application to homonuclear recoupling in magic angle spinning solid-state NMR. Journal of Chemical Physics, 2008, 128, 124503.	3.0	50
22	Intermolecular Interactions and Protein Dynamics by Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 15374-15378.	13.8	50
23	Heteronuclear proton assisted recoupling. Journal of Chemical Physics, 2011, 134, 095101.	3.0	48
24	Atomic-Resolution Structural Dynamics in Crystalline Proteins from NMR and Molecular Simulation. Journal of Physical Chemistry Letters, 2012, 3, 3657-3662.	4.6	47
25	Anisotropic Collective Motion Contributes to Nuclear Spin Relaxation in Crystalline Proteins. Journal of the American Chemical Society, 2010, 132, 1246-1248.	13.7	43
26	Binding of Distinct Substrate Conformations Enables Hydroxylation of Remote Sites in Thaxtomin D by Cytochrome P450 TxtC. Journal of the American Chemical Society, 2019, 141, 216-222.	13.7	42
27	Structural basis for chain release from the enacyloxin polyketide synthase. Nature Chemistry, 2019, 11, 913-923.	13.6	39
28	High-resolution and sensitivity through-bond correlations in ultra-fast magic angle spinning (MAS) solid-state NMR. Chemical Science, 2011, 2, 345-348.	7.4	38
29	Unraveling the complexity of protein backbone dynamics with combined 13C and 15N solid-state NMR relaxation measurements. Physical Chemistry Chemical Physics, 2015, 17, 21997-22008.	2.8	37
30	Characterization of Proteinâ€“Protein Interfaces in Large Complexes by Solid-State NMR Solvent Paramagnetic Relaxation Enhancements. Journal of the American Chemical Society, 2017, 139, 12165-12174.	13.7	35
31	Fibrillar vs Crystalline Full-Length Î²-2-Microglobulin Studied by High-Resolution Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 5556-5557.	13.7	32
32	Multipole-multimode Floquet theory of rotational resonance width experiments: C13â€“C13 distance measurements in uniformly labeled solids. Journal of Chemical Physics, 2006, 124, 214107.	3.0	31
33	Mechanism of intersubunit ketosynthaseâ€“dehydratase interaction in polyketide synthases. Nature Chemical Biology, 2018, 14, 270-275.	8.0	31
34	Proteinâ€“protein interactions in trans-AT polyketide synthases. Natural Product Reports, 2018, 35, 1097-1109.	10.3	29
35	Solid-State NMR Provides Evidence for Small-Amplitude Slow Domain Motions in a Multispanning Transmembrane Îą-Helical Protein. Journal of the American Chemical Society, 2017, 139, 9246-9258.	13.7	27
36	Structural studies suggest aggregation as one of the modes of action for teixobactin. Chemical Science, 2018, 9, 8850-8859.	7.4	24

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37	Benchmark calculations of the shielding constants in the water dimer. Chemical Physics Letters, 2001, 333, 139-145.	2.6	23
38	Quantifying Microsecond Exchange in Large Protein Complexes with Accelerated Relaxation Dispersion Experiments in the Solid State. Scientific Reports, 2019, 9, 11082.	3.3	23
39	Revealing Intermolecular Hydrogen Bonding Structure and Dynamics in a Deep Eutectic Pharmaceutical by Magic-Angle Spinning NMR Spectroscopy. Molecular Pharmaceutics, 2020, 17, 622-631.	4.6	22
40	A suite of solid-state NMR experiments to utilize orphaned magnetization for assignment of proteins using parallel high and low gamma detection. Journal of Magnetic Resonance, 2019, 305, 219-231.	2.1	18
41	MAS NMR Investigation of Molecular Order in an Ionic Liquid Crystal. Journal of Physical Chemistry B, 2020, 124, 4975-4988.	2.6	17
42	Docking domain-mediated subunit interactions in natural product megasynth(et)ases. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	3.0	17
43	Simultaneous acquisition of homonuclear and heteronuclear long-distance contacts with time-shared third spin assisted recoupling. Journal of Magnetic Resonance, 2012, 218, 30-34.	2.1	16
44	Compensated second-order recoupling: application to third spin assisted recoupling. Physical Chemistry Chemical Physics, 2012, 14, 7246.	2.8	15
45	Intermolecular Interactions and Protein Dynamics by Solidâ€State NMR Spectroscopy. Angewandte Chemie, 2015, 127, 15594-15598.	2.0	15
46	Probing Protein Dynamics Using Multifield Variable Temperature NMR Relaxation and Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2018, 122, 9697-9702.	2.6	15
47	Communication Breakdown: Dissecting the COM Interfaces between the Subunits of Nonribosomal Peptide Synthetases. ACS Catalysis, 2021, 11, 10802-10813.	11.2	14
48	Modulation of Transmembrane Domain Interactions in Neu Receptor Tyrosine Kinase by Membrane Fluidity and Cholesterol. Journal of Membrane Biology, 2019, 252, 357-369.	2.1	10
49	Isolation and structural characterisation of rhodium(<scp>iii</scp>) Î·²-fluoroarene complexes: experimental verification of predicted regioselectivity. Dalton Transactions, 2020, 49, 5791-5793.	3.3	7
50	Taming the dynamics in a pharmaceutical by cocrystallization: investigating the impact of the coformer by solid-state NMR. CrystEngComm, 2021, 23, 6859-6870.	2.6	7
51	Accelerating 15N and 13C R1 and R1Ï•relaxation measurements by multiple pathway solid-state NMR experiments. Journal of Magnetic Resonance, 2021, 331, 107049.	2.1	5
52	Molecular basis for acyl carrier proteinâ€“ketoreductase interaction in trans-acyltransferase polyketide synthases. Chemical Science, 2021, 12, 13676-13685.	7.4	3
53	Simultaneous MQMAS NMR Experiments for Two Half-Integer Quadrupolar Nuclei. Journal of Magnetic Resonance, 2020, 320, 106831.	2.1	2
54	Dipolar Order Parameters in Large Systems With Fast Spinning. Frontiers in Molecular Biosciences, 2021, 8, 791026.	3.5	2

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55	Solid State NMR Studies Of Structural And Motional Complexity In Amyloid-Like Fibrils Of The Peptide GNNQQNY. Biophysical Journal, 2009, 96, 219a.	0.5	0