Alexandar L Hansen

List of Publications by Year
in descending order

41 papers	1,429 citations	394421 19 h-index	330143 37 g-index
42 all docs	42 docs citations	42 times ranked	1494 citing authors

#	Article	IF	Citations
1	Fundamental and practical aspects of machine learning for the peak picking of biomolecular NMR spectra. Journal of Biomolecular NMR, 2022, 76, 49-57.	2.8	5
2	2D NMR-Based Metabolomics with HSQC/TOCSY NOAH Supersequences. Analytical Chemistry, 2021, 93, 6112-6119.	6.5	28
3	From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. Angewandte Chemie - International Edition, 2021, 60, 19942-19948.	13.8	18
4	Increasing sensitivity and versatility in NMR supersequences with new HSQC-based modules. Journal of Magnetic Resonance, 2021, 329, 107027.	2.1	12
5	Observation of Sub-Microsecond Protein Methyl-Side Chain Dynamics by Nanoparticle-Assisted NMR Spin Relaxation. Journal of the American Chemical Society, 2021, 143, 13593-13604.	13.7	10
6	DEEP picker is a deep neural network for accurate deconvolution of complex two-dimensional NMR spectra. Nature Communications, 2021, 12, 5229.	12.8	55
7	4,15-Dimethyl-7,12-diazoniatricyclo[10.4.0.0^{2,7}]hexadeca-1(12),2,4,6,13,15-hexaene dibromide monohydrate. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 1467-1471.	0.5	0
8	Functional protein dynamics on uncharted time scales detected by nanoparticle-assisted NMR spin relaxation. Science Advances, 2019, 5, eaax5560.	10.3	32
9	Extreme Nonuniform Sampling for Protein NMR Dynamics Studies in Minimal Time. Journal of the American Chemical Society, 2019, 141, 16829-16838.	13.7	12
10	Real-Time Pure Shift HSQC NMR for Untargeted Metabolomics. Analytical Chemistry, 2019, 91, 2304-2311.	6.5	25
11	Resonance assignments of wild-type and two cysteine-free variants of the four-helix bundle protein, Rop. Biomolecular NMR Assignments, 2018, 12, 345-350.	0.8	1
12	Quantitative Binding Behavior of Intrinsically Disordered Proteins to Nanoparticle Surfaces at Individual Residue Level. Chemistry - A European Journal, 2018, 24, 16997-17001.	3.3	21
13	Nonâ€Uniform and Absolute Minimal Sampling for Highâ€Throughput Multidimensional NMR Applications. Chemistry - A European Journal, 2018, 24, 11535-11544.	3.3	14
14	Differential Conformational Dynamics Encoded by the Linker between Quasi RNA Recognition Motifs of Heterogeneous Nuclear Ribonucleoprotein H. Journal of the American Chemical Society, 2018, 140, 11661-11673.	13.7	11
15	1H, 13C, 15N resonance assignment of recombinant Euplotes raikovi protein Er-23. Biomolecular NMR Assignments, 2018, 12, 291-295.	0.8	0
16	Absolute Minimal Sampling of Homonuclear 2D NMR TOCSY Spectra for Highâ€Throughput Applications of Complex Mixtures. Angewandte Chemie - International Edition, 2017, 56, 8149-8152.	13.8	16
17	The Michaelis Complex of Arginine Kinase Samples the Transition State at a Frequency That Matches the Catalytic Rate. Journal of the American Chemical Society, 2017, 139, 4846-4853.	13.7	14
18	Absolute Minimal Sampling of Homonuclear 2D NMR TOCSY Spectra for Highâ€Throughput Applications of Complex Mixtures. Angewandte Chemie, 2017, 129, 8261-8264.	2.0	8

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19	Synthesis of 6-phosphofructose aspartic acid and some related Amadori compounds. Carbohydrate Research, 2016, 431, 1-5.	2.3	16
20	Residue-Specific Interactions of an Intrinsically Disordered Protein with Silica Nanoparticles and Their Quantitative Prediction. Journal of Physical Chemistry C, 2016, 120, 24463-24468.	3.1	28
21	Absolute Minimal Sampling in Highâ€Dimensional NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 14169-14172.	13.8	19
22	Absolut minimales Sampling in der hochdimensionalen NMRâ€Spektroskopie. Angewandte Chemie, 2016, 128, 14376-14379.	2.0	5
23	Rapid Determination of Fast Protein Dynamics from NMR Chemical Exchange Saturation Transfer Data. Angewandte Chemie, 2016, 128, 3169-3171.	2.0	1
24	Rapid Determination of Fast Protein Dynamics from NMR Chemical Exchange Saturation Transfer Data. Angewandte Chemie - International Edition, 2016, 55, 3117-3119.	13.8	15
25	Kinetic Cooperativity in Human Pancreatic Glucokinase Originates from Millisecond Dynamics of the Small Domain. Angewandte Chemie, 2015, 127, 8247-8250.	2.0	7
26	Kinetic Cooperativity in Human Pancreatic Glucokinase Originates from Millisecond Dynamics of the Small Domain. Angewandte Chemie - International Edition, 2015, 54, 8129-8132.	13.8	29
27	Characterizing Slow Chemical Exchange in Nucleic Acids by Carbon CEST and Low Spin-Lock Field R_{1Ï} NMR Spectroscopy. Journal of the American Chemical Society, 2014, 136, 20-23.	13.7	82
28	Measurement of histidine pK _a values and tautomer populations in invisible protein states. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1705-12.	7.1	111
29	Probing slowly exchanging protein systems via 13CÎ±-CEST: monitoring folding of the Im7 protein. Journal of Biomolecular NMR, 2013, 55, 279-289.	2.8	24
30	The Role of Ligands on the Equilibria Between Functional States of a G Protein-Coupled Receptor. Journal of the American Chemical Society, 2013, 135, 9465-9474.	13.7	156
31	Quantifying Millisecond Exchange Dynamics in Proteins by CPMG Relaxation Dispersion NMR Using Side-Chain ¹H Probes. Journal of the American Chemical Society, 2012, 134, 3178-3189.	13.7	55
32	Nonnative Interactions in the FF Domain Folding Pathway from an Atomic Resolution Structure of a Sparsely Populated Intermediate: An NMR Relaxation Dispersion Study. Journal of the American Chemical Society, 2011, 133, 10974-10982.	13.7	37
33	Characterizing RNA dynamics at atomic resolution using solution-state NMR spectroscopy. Nature Methods, 2011, 8, 919-931.	19.0	131
34	Quantifying millisecond time-scale exchange in proteins by CPMG relaxation dispersion NMR spectroscopy of side-chain carbonyl groups. Journal of Biomolecular NMR, 2011, 50, 347-355.	2.8	28
35	Variable helix elongation as a tool to modulate RNA alignment and motional couplings. Journal of Magnetic Resonance, 2010, 202, 117-121.	2.1	19
36	Extending the Range of Microsecond-to-Millisecond Chemical Exchange Detected in Labeled and Unlabeled Nucleic Acids by Selective Carbon R_{1Ï} NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 3818-3819.	13.7	109

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37	Characterizing Complex Dynamics in the Transactivation Response Element Apical Loop and Motional Correlations with the Bulge by NMR, Molecular Dynamics, and Mutagenesis. Biophysical Journal, 2008, 95, 3906-3915.	0.5	65
38	Dynamics of Large Elongated RNA by NMR Carbon Relaxation. Journal of the American Chemical Society, 2007, 129, 16072-16082.	13.7	85
39	Characterizing the relative orientation and dynamics of RNA A-form helices using NMR residual dipolar couplings. Nature Protocols, 2007, 2, 1536-1546.	12.0	56
40	Insight into the CSA tensors of nucleobase carbons in RNA polynucleotides from solution measurements of residual CSA: Towards new long-range orientational constraints. Journal of Magnetic Resonance, 2006, 179, 299-307.	2.1	56
41	Pulsed field gradient NMR investigation of solubilization equilibria in amino acid and dipeptide terminated micellar and polymeric surfactant solutions. Magnetic Resonance in Chemistry, 2002, 40, 755-761.	1.9	13