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	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
2	Characterizing RNA dynamics at atomic resolution using solution-state NMR spectroscopy. Nature Methods, 2011, 8, 919-931.	19.0	131
3	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
4	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
5	Dynamics of Large Elongated RNA by NMR Carbon Relaxation. Journal of the American Chemical Society, 2007, 129, 16072-16082.	13.7	85
6	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
7	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
8	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
9	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
10	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
11	DEEP picker is a deep neural network for accurate deconvolution of complex two-dimensional NMR spectra. Nature Communications, 2021, 12, 5229.	12.8	55
12	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
13	Functional protein dynamics on uncharted time scales detected by nanoparticle-assisted NMR spin relaxation. Science Advances, 2019, 5, eaax5560.	10.3	32
14	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
15	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
16	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
17	2D NMR-Based Metabolomics with HSQC/TOCSY NOAH Supersequences. Analytical Chemistry, 2021, 93, 6112-6119.	6.5	28
18	Real-Time Pure Shift HSQC NMR for Untargeted Metabolomics. Analytical Chemistry, 2019, 91, 2304-2311.	6.5	25

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19	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
20	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
21	Variable helix elongation as a tool to modulate RNA alignment and motional couplings. Journal of Magnetic Resonance, 2010, 202, 117-121.	2.1	19
22	Absolute Minimal Sampling in Highâ€Dimensional NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 14169-14172.	13.8	19
23	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
24	Synthesis of 6-phosphofructose aspartic acid and some related Amadori compounds. Carbohydrate Research, 2016, 431, 1-5.	2.3	16
25	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
26	Rapid Determination of Fast Protein Dynamics from NMR Chemical Exchange Saturation Transfer Data. Angewandte Chemie - International Edition, 2016, 55, 3117-3119.	13.8	15
27	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
28	Nonâ€Uniform and Absolute Minimal Sampling for Highâ€Throughput Multidimensional NMR Applications. Chemistry - A European Journal, 2018, 24, 11535-11544.	3.3	14
29	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
30	Extreme Nonuniform Sampling for Protein NMR Dynamics Studies in Minimal Time. Journal of the American Chemical Society, 2019, 141, 16829-16838.	13.7	12
31	Increasing sensitivity and versatility in NMR supersequences with new HSQC-based modules. Journal of Magnetic Resonance, 2021, 329, 107027.	2.1	12
32	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
33	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
34	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
35	Kinetic Cooperativity in Human Pancreatic Glucokinase Originates from Millisecond Dynamics of the Small Domain. Angewandte Chemie, 2015, 127, 8247-8250.	2.0	7
36	Absolut minimales Sampling in der hochdimensionalen NMRâ€Spektroskopie. Angewandte Chemie, 2016, 128, 14376-14379.	2.0	5

#	Article	IF	Citations
37	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
38	Rapid Determination of Fast Protein Dynamics from NMR Chemical Exchange Saturation Transfer Data. Angewandte Chemie, 2016, 128, 3169-3171.	2.0	1
39	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
40	1H, 13C, 15N resonance assignment of recombinant Euplotes raikovi protein Er-23. Biomolecular NMR Assignments, 2018, 12, 291-295.	0.8	0
41	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