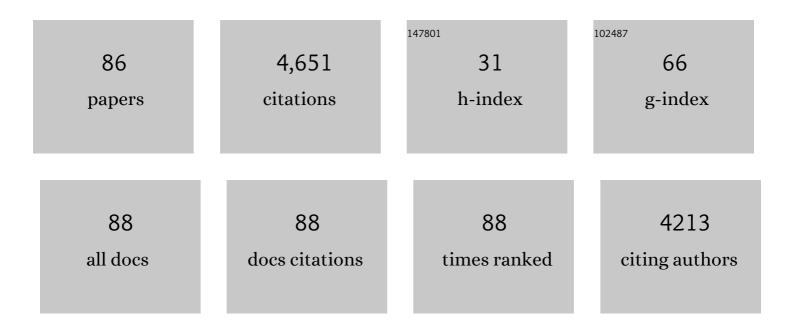
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Theory, Practice, and Applications of Paramagnetic Relaxation Enhancement for the Characterization of Transient Low-Population States of Biological Macromolecules and Their Complexes. Chemical Reviews, 2009, 109, 4108-4139.	47.7	692
2	Visualization of transient encounter complexes in protein–protein association. Nature, 2006, 444, 383-386.	27.8	397
3	Detecting transient intermediates in macromolecular binding by paramagnetic NMR. Nature, 2006, 440, 1227-1230.	27.8	349
4	Ensemble Approach for NMR Structure Refinement against1H Paramagnetic Relaxation Enhancement Data Arising from a Flexible Paramagnetic Group Attached to a Macromolecule. Journal of the American Chemical Society, 2004, 126, 5879-5896.	13.7	317
5	Practical aspects of 1H transverse paramagnetic relaxation enhancement measurements on macromolecules. Journal of Magnetic Resonance, 2007, 184, 185-195.	2.1	239
6	Elucidating transient macromolecular interactions using paramagnetic relaxation enhancement. Current Opinion in Structural Biology, 2007, 17, 603-616.	5.7	201
7	NMR structural and kinetic characterization of a homeodomain diffusing and hopping on nonspecific DNA. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15062-15067.	7.1	172
8	KUJIRA, a package of integrated modules for systematic and interactive analysis of NMR data directed to high-throughput NMR structure studies. Journal of Biomolecular NMR, 2007, 39, 31-52.	2.8	153
9	Heteronuclear NMR Spectroscopy for Lysine NH3 Groups in Proteins:  Unique Effect of Water Exchange on 15N Transverse Relaxation. Journal of the American Chemical Society, 2007, 129, 2971-2980.	13.7	97
10	Asymmetrical roles of zinc fingers in dynamic DNA-scanning process by the inducible transcription factor Egr-1. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1724-E1732.	7.1	90
11	Balancing between affinity and speed in target DNA search by zinc-finger proteins via modulation of dynamic conformational ensemble. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5142-9.	7.1	90
12	Direct Observation of Enhanced Translocation of a Homeodomain between DNA Cognate Sites by NMR Exchange Spectroscopy. Journal of the American Chemical Society, 2006, 128, 404-405.	13.7	89
13	Characterization of Nonspecific Proteinâ	13.7	76
14	EDTA-Derivatized Deoxythymidine as a Tool for Rapid Determination of Protein Binding Polarity to DNA by Intermolecular Paramagnetic Relaxation Enhancement. Journal of the American Chemical Society, 2003, 125, 6634-6635.	13.7	72
15	Dynamics of Lysine Side-Chain Amino Groups in a Protein Studied by Heteronuclear ¹ Hâ^' ¹⁵ N NMR Spectroscopy. Journal of the American Chemical Society, 2011, 133, 909-919.	13.7	71
16	Real-time Kinetics of High-mobility Group Box 1 (HMGB1) Oxidation in Extracellular Fluids Studied by in Situ Protein NMR Spectroscopy. Journal of Biological Chemistry, 2013, 288, 11621-11627.	3.4	70
17	Positive and negative impacts of nonspecific sites during target location by a sequence-specific DNA-binding protein: origin of the optimal search at physiological ionic strength. Nucleic Acids Research, 2014, 42, 7039-7046.	14.5	65
18	Improved NMR spectra of a protein-DNA complex through rational mutagenesis and the application of a sensitivity optimized isotope-filtered NOESY experiment. Journal of Biomolecular NMR, 2001, 19, 231-241.	2.8	60

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19	The structure of the Dead ringer-DNA complex reveals how AT-rich interaction domains (ARIDs) recognize DNA. EMBO Journal, 2002, 21, 1197-1209.	7.8	59
20	Direct Observation of the Ion-Pair Dynamics at a Protein–DNA Interface by NMR Spectroscopy. Journal of the American Chemical Society, 2013, 135, 3613-3619.	13.7	57
21	Direct Evidence for Deprotonation of a Lysine Side Chain Buried in the Hydrophobic Core of a Protein. Journal of the American Chemical Society, 2008, 130, 6714-6715.	13.7	52
22	Changes in conformational dynamics of basic side chains upon protein–DNA association. Nucleic Acids Research, 2016, 44, 6961-6970.	14.5	51
23	Stopped-Flow Fluorescence Kinetic Study of Protein Sliding and Intersegment Transfer in the Target DNA Search Process. Journal of Molecular Biology, 2014, 426, 230-244.	4.2	49
24	Regulation of Directionality in Bacteriophage λ Site-specific Recombination: Structure of the Xis Protein. Journal of Molecular Biology, 2002, 324, 791-805.	4.2	46
25	Entropic Enhancement of Protein-DNA Affinity by Oxygen-to-Sulfur Substitution in DNA Phosphate. Biophysical Journal, 2015, 109, 1026-1037.	0.5	46
26	TROSY-Based <i>z</i> -Exchange Spectroscopy:  Application to the Determination of the Activation Energy for Intermolecular Protein Translocation between Specific Sites on Different DNA Molecules. Journal of the American Chemical Society, 2007, 129, 13232-13237.	13.7	43
27	Signature of Mobile Hydrogen Bonding of Lysine Side Chains from Long-Range ¹⁵ N– ¹³ C Scalar <i>J</i> -Couplings and Computation. Journal of the American Chemical Society, 2011, 133, 9192-9195.	13.7	40
28	Structure-Independent Analysis of the Breadth of the Positional Distribution of Disordered Groups in Macromolecules from Order Parameters for Long, Variable-Length Vectors Using NMR Paramagnetic Relaxation Enhancement. Journal of the American Chemical Society, 2010, 132, 13346-13356.	13.7	39
29	Structural impact of complete CpG methylation within target DNA on specific complex formation of the inducible transcription factor Egrâ€1. FEBS Letters, 2015, 589, 1748-1753.	2.8	39
30	Dynamic Equilibria of Short-Range Electrostatic Interactions at Molecular Interfaces of Protein–DNA Complexes. Journal of Physical Chemistry Letters, 2015, 6, 2733-2737.	4.6	39
31	Redox properties of the Aâ€domain of the HMGB1 protein. FEBS Letters, 2008, 582, 3973-3978.	2.8	37
32	Dynamics of Ionic Interactions at Protein–Nucleic Acid Interfaces. Accounts of Chemical Research, 2020, 53, 1802-1810.	15.6	36
33	NMR Studies of Translocation of the Zif268 Protein between Its Target DNA Sites. Biochemistry, 2010, 49, 7998-8005.	2.5	31
34	Physicochemical Properties of Ion Pairs of Biological Macromolecules. Biomolecules, 2015, 5, 2435-2463.	4.0	30
35	Solution structure of the Eps15 homology domain of a human POB1 (partner of RalBP1). FEBS Letters, 1999, 442, 138-142.	2.8	29
36	NMR Studies on the Dynamics of Hydrogen Bonds and Ion Pairs Involving Lysine Side Chains of Proteins. Advances in Protein Chemistry and Structural Biology, 2013, 93, 37-80.	2.3	29

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37	Regulation of transcription factors via natural decoys in genomic DNA. Transcription, 2016, 7, 115-120.	3.1	28
38	De novo determination of near-surface electrostatic potentials by NMR. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	26
39	Temperature Dependence of Internal Motions of Protein Side-Chain NH ₃ ⁺ Groups: Insight into Energy Barriers for Transient Breakage of Hydrogen Bonds. Biochemistry, 2015, 54, 538-545.	2.5	23
40	Intramolecular domain-domain association/dissociation and phosphoryl transfer in the mannitol transporter of Escherichia coli are not coupled. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3153-3158.	7.1	22
41	Speed-stability paradox in DNA-scanning by zinc-finger proteins. Transcription, 2013, 4, 58-61.	3.1	22
42	Influence of Quasi-Specific Sites on Kinetics of Target DNA Search by a Sequence-Specific DNA-Binding Protein. Biochemistry, 2015, 54, 6684-6691.	2.5	22
43	Effective strategy to assign 1H-15N heteronuclear correlation NMR signals from lysine side-chain NH3 + groups of proteins at low temperature. Journal of Biomolecular NMR, 2014, 60, 23-27.	2.8	19
44	Internal Motions of Basic Side Chains of the Antennapedia Homeodomain in the Free and DNA-Bound States. Biochemistry, 2017, 56, 5866-5869.	2.5	19
45	Negatively Charged Disordered Regions are Prevalent and Functionally Important Across Proteomes. Journal of Molecular Biology, 2022, 434, 167660.	4.2	19
46	Lysines and Arginines play non-redundant roles in mediating chemokine-glycosaminoglycan interactions. Scientific Reports, 2018, 8, 12289.	3.3	18
47	Dynamic Autoinhibition of the HMGB1 Protein via Electrostatic Fuzzy Interactions of Intrinsically Disordered Regions. Journal of Molecular Biology, 2021, 433, 167122.	4.2	18
48	Quantifying and visualizing weak interactions between anions and proteins. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
49	The Mu repressor-DNA complex contains an immobilized 'wing' within the minor groove. Nature Structural Biology, 2001, 8, 84-90.	9.7	17
50	Solution structure determination of the two DNA-binding domains in the Schizosaccharomyces pombe Abp1 protein by a combination of dipolar coupling and diffusion anisotropy restraints. Journal of Biomolecular NMR, 2002, 22, 333-347.	2.8	17
51	Potential role of DNA methylation as a facilitator of target search processes for transcription factors through interplay with methyl-CpG-binding proteins. Nucleic Acids Research, 2017, 45, 7751-7759.	14.5	16
52	NMR Observation of Intermolecular Hydrogen Bonds between Protein Tyrosine Side-Chain OH and DNA Phosphate Groups. Journal of Physical Chemistry B, 2020, 124, 1065-1070.	2.6	16
53	A chemical approach for site-specific identification of NMR signals from protein side-chain NH3 + groups forming intermolecular ion pairs in protein–nucleic acid complexes. Journal of Biomolecular NMR, 2015, 62, 1-5.	2.8	15
54	Stereospecific Effects of Oxygenâ€ŧo‣ulfur Substitution in DNA Phosphate on Ion Pair Dynamics and Protein–DNA Affinity. ChemBioChem, 2016, 17, 1636-1642.	2.6	15

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55	Protein Electrostatics Investigated through Paramagnetic NMR for Nonpolar Groups. Journal of Physical Chemistry B, 2022, 126, 2196-2202.	2.6	15
56	Sensitivity improvement for correlations involving arginine side-chain Nε/Hε resonances in multi-dimensional NMR experiments using broadband 15N 180° pulses. Journal of Biomolecular NMR, 2006, 36, 251-257.	2.8	14
57	Detecting Counterion Dynamics in DNA–Protein Association. Angewandte Chemie - International Edition, 2020, 59, 1465-1468.	13.8	14
58	Discrete-state stochastic kinetic models for target DNA search by proteins: Theory and experimental applications. Biophysical Chemistry, 2021, 269, 106521.	2.8	14
59	Assignment of the 1H, 13C and 15N signals of Sortase. Journal of Biomolecular NMR, 2001, 19, 379-380.	2.8	13
60	Residence Times of Molecular Complexes in Solution from NMR Data of Intermolecular Hydrogen-Bond Scalar Coupling. Journal of Physical Chemistry Letters, 2016, 7, 820-824.	4.6	13
61	NMR Methods for Characterizing the Basic Side Chains of Proteins: Electrostatic Interactions, Hydrogen Bonds, and Conformational Dynamics. Methods in Enzymology, 2019, 615, 285-332.	1.0	13
62	Accurate Determination of Leucine and Valine Side-chain Conformations using U-[15N/13C/2H]/[1H-(methine/methyl)-Leu/Val] Isotope Labeling, NOE Pattern Recognition, and Methine Cγ–Hγ/Cβ–Hβ Residual Dipolar Couplings: Application to the 34-kDa Enzyme IIAChitobiose. Journal of Biomolecular NMR, 2005, 33, 105-121.	2.8	12
63	NMR Scalar Couplings across Intermolecular Hydrogen Bonds between Zinc-Finger Histidine Side Chains and DNA Phosphate Groups. Journal of Physical Chemistry B, 2016, 120, 10679-10685.	2.6	12
64	NMR-based investigations into target DNA search processes of proteins. Methods, 2018, 148, 57-66.	3.8	12
65	Experimental approaches for investigating ion atmospheres around nucleic acids and proteins. Computational and Structural Biotechnology Journal, 2021, 19, 2279-2285.	4.1	12
66	Observing in-phase single-quantum 15N multiplets for groups with two-dimensional heteronuclear correlation spectroscopy. Journal of Magnetic Resonance, 2008, 194, 313-316.	2.1	11
67	Direct detection of lysine side chain NH ₃ ⁺ in protein–heparin complexes using NMR spectroscopy. Analyst, The, 2018, 143, 635-638.	3.5	10
68	Thermodynamic Additivity for Impacts of Base-Pair Substitutions on Association of the Egr-1 Zinc-Finger Protein with DNA. Biochemistry, 2016, 55, 6467-6474.	2.5	9
69	Experimental Evidence of Solvent-Separated Ion Pairs as Metastable States in Electrostatic Interactions of Biological Macromolecules. Journal of Physical Chemistry Letters, 2019, 10, 7937-7941.	4.6	9
70	Assessment of the Components of the Electrostatic Potential of Proteins in Solution: Comparing Experiment and Theory. Journal of Physical Chemistry B, 2022, 126, 4543-4554.	2.6	8
71	Compensating increases in protein backbone flexibility occur when the Dead ringer AT-rich interaction domain (ARID) binds DNA: A nitrogen-15 relaxation study. Protein Science, 2005, 14, 1140-1150.	7.6	7
72	Mobility of Histidine Side Chains Analyzed with ¹⁵ N NMR Relaxation and Cross-Correlation Data: Insight into Zinc-Finger–DNA Interactions. Journal of Physical Chemistry B, 2019, 123, 3706-3710.	2.6	6

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73	Discrete-State Kinetics Model for NMR-Based Analysis of Protein Translocation on DNA at Equilibrium. Journal of Physical Chemistry B, 2017, 121, 9548-9556.	2.6	5
74	A Unique and Simple Approach to Improve Sensitivity in 15N-NMR Relaxation Measurements for NH3+ Groups: Application to a Protein-DNA Complex. Molecules, 2017, 22, 1355.	3.8	5
75	Impact of two-bond 15N–15N scalar couplings on 15N transverse relaxation measurements for arginine side chains of proteins. Journal of Biomolecular NMR, 2018, 71, 45-51.	2.8	5
76	Dynamics of Cations around DNA and Protein as Revealed by ²³ Na Diffusion NMR Spectroscopy. Analytical Chemistry, 2022, 94, 2444-2452.	6.5	5
77	An Efficient NMR Experiment for Analyzing Sugar-Puckering in Unlabeled DNA: Application to the 26-kDa Dead Ringer–DNA Complex. Journal of Magnetic Resonance, 2001, 153, 262-266.	2.1	4
78	Diffusion NMR-based comparison of electrostatic influences of DNA on various monovalent cations. Biophysical Journal, 2022, 121, 3562-3570.	0.5	4
79	Gaussian Spectral-Density Function for Protein Internal Motions. Journal of Magnetic Resonance Series B, 1996, 111, 281-284.	1.6	3
80	Letter to the Editor: 1H, 13C and 15N resonance assignments of the AT-rich interaction domain from the Dead Ringer protein. , 1999, 15, 85-86.		3
81	Hydrogen-exchange kinetics studied through analysis of self-decoupling of nuclear magnetic resonance. Journal of Magnetic Resonance, 2020, 312, 106687.	2.1	3
82	Slow Rotational Dynamics of Cytosine NH ₂ Groups in Double-Stranded DNA. Biochemistry, 2022, 61, 1415-1418.	2.5	3
83	Racemic phosphorothioate as a tool for NMR investigations of protein-DNA complexes. Journal of Biomolecular NMR, 2020, 74, 421-429.	2.8	2
84	Detecting Counterion Dynamics in DNA–Protein Association. Angewandte Chemie, 2020, 132, 1481-1484.	2.0	1
85	Investigations of Intermediates in Macromolecular Binding Process Using NMR-PRE Method. Seibutsu Butsuri, 2008, 48, 018-022.	0.1	1
86	Hindered Rotations of Protein Asparagine/Glutamine Side-Chain NH2 Groups: Impact of Hydrogen Bonding with DNA. Journal of Physical Chemistry Letters, 2021, 12, 11378-11382.	4.6	1