

Gabriel Cornilescu

List of Publications by Year in descending order

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70
papers

8,703
citations

159358

30
h-index

85405

71
g-index

74
all docs

74
docs citations

74
times ranked

9346
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein backbone angle restraints from searching a database for chemical shift and sequence homology. <i>Journal of Biomolecular NMR</i> , 1999, 13, 289-302.	1.6	2,825
2	TALOS+: a hybrid method for predicting protein backbone torsion angles from NMR chemical shifts. <i>Journal of Biomolecular NMR</i> , 2009, 44, 213-223.	1.6	2,305
3	Validation of Protein Structure from Anisotropic Carbonyl Chemical Shifts in a Dilute Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 1998, 120, 6836-6837.	6.6	880
4	Identification of the Hydrogen Bonding Network in a Protein by Scalar Couplings. <i>Journal of the American Chemical Society</i> , 1999, 121, 2949-2950.	6.6	234
5	Measurement of Proton, Nitrogen, and Carbonyl Chemical Shielding Anisotropies in a Protein Dissolved in a Dilute Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 2000, 122, 10143-10154.	6.6	208
6	Correlation between $^3\text{HJNC}$ and Hydrogen Bond Length in Proteins. <i>Journal of the American Chemical Society</i> , 1999, 121, 6275-6279.	6.6	165
7	Structural Basis for SRY-dependent 46-X,Y Sex Reversal: Modulation of DNA Bending by a Naturally Occurring Point Mutation. <i>Journal of Molecular Biology</i> , 2001, 312, 481-499.	2.0	132
8	U2 α -U6 RNA folding reveals a group II intron-like domain and a four-helix junction. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1237-1242.	3.6	123
9	Structural basis for the photoconversion of a phytochrome to the activated Pfr form. <i>Nature</i> , 2010, 463, 250-254.	13.7	118
10	Solution structure of a late embryogenesis abundant protein (LEA14) from <i>Arabidopsis thaliana</i> , a cellular stress-related protein. <i>Protein Science</i> , 2005, 14, 2601-2609.	3.1	104
11	Site-Specific Backbone Amide ^{15}N Chemical Shift Anisotropy Tensors in a Small Protein from Liquid Crystal and Cross-Correlated Relaxation Measurements. <i>Journal of the American Chemical Society</i> , 2010, 132, 4295-4309.	6.6	79
12	Cyanochromes Are Blue/Green Light Photoreversible Photoreceptors Defined by a Stable Double Cysteine Linkage to a Phycoviolobin-type Chromophore. <i>Journal of Biological Chemistry</i> , 2009, 284, 29757-29772.	1.6	75
13	The Impact of Hydrogen Bonding on Amide ^1H Chemical Shift Anisotropy Studied by Cross-Correlated Relaxation and Liquid Crystal NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 10866-10875.	6.6	64
14	Solution Structure of the Phosphoryl Transfer Complex between the Cytoplasmic A Domain of the Mannitol Transporter IIMannitol and HPr of the <i>Escherichia coli</i> Phosphotransferase System. <i>Journal of Biological Chemistry</i> , 2002, 277, 42289-42298.	1.6	61
15	Highly Stable, Amide-Bridged Autoinducing Peptide Analogues that Strongly Inhibit the AgrC Quorum Sensing Receptor in <i>Staphylococcus aureus</i> . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8913-8917.	7.2	59
16	Structural analysis of the N-terminal domain of the human T-cell leukemia virus capsid protein. <i>Journal of Molecular Biology</i> , 2001, 306, 783-797.	2.0	58
17	Comparison of cell-based and cell-free protocols for producing target proteins from the <i>Arabidopsis thaliana</i> genome for structural studies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 59, 633-643.	1.5	56
18	Dynamic Structural Changes Underpin Photoconversion of a Blue/Green Cyanobacteriochrome between Its Dark and Photoactivated States. <i>Journal of Biological Chemistry</i> , 2014, 289, 3055-3065.	1.6	55

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19	Solution Structure of a Cyanobacterial Phytochrome GAF Domain in the Red-Light-Absorbing Ground State. <i>Journal of Molecular Biology</i> , 2008, 383, 403-413.	2.0	53
20	Characterization of Two Thermostable Cyanobacterial Phytochromes Reveals Global Movements in the Chromophore-binding Domain during Photoconversion. <i>Journal of Biological Chemistry</i> , 2008, 283, 21251-21266.	1.6	51
21	Structural Characterization of Native Autoinducing Peptides and Abiotic Analogues Reveals Key Features Essential for Activation and Inhibition of an AgrC Quorum Sensing Receptor in <i>Staphylococcus aureus</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 18436-18444.	6.6	49
22	Structural Basis for a Novel Interaction between the NS1 Protein Derived from the 1918 Influenza Virus and RIG-I. <i>Structure</i> , 2015, 23, 2001-2010.	1.6	47
23	Integrative NMR for biomolecular research. <i>Journal of Biomolecular NMR</i> , 2016, 64, 307-332.	1.6	47
24	Structural Analysis of Multi-Helical RNAs by NMR-SAXS/WAXS: Application to the U4/U6 di-snRNA. <i>Journal of Molecular Biology</i> , 2016, 428, 777-789.	2.0	45
25	Characterization of structural elements in native autoinducing peptides and non-native analogues that permit the differential modulation of AgrC-type quorum sensing receptors in <i>Staphylococcus aureus</i> . <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 113-121.	1.5	43
26	Solution Structure of the Iron-Sulfur Cluster Cochaperone HscB and Its Binding Surface for the Iron-Sulfur Assembly Scaffold Protein IscU. <i>Biochemistry</i> , 2008, 47, 9394-9404.	1.2	42
27	Simplified AIP Peptidomimetics Are Potent Inhibitors of <i>Staphylococcus aureus</i> AgrC Quorum Sensing Receptors. <i>ChemBioChem</i> , 2017, 18, 413-423.	1.3	42
28	Structure and thermodynamics of a conserved U2 snRNA domain from yeast and human. <i>Rna</i> , 2007, 13, 328-338.	1.6	40
29	Activation of Nanoscale Allosteric Protein Domain Motion Revealed by Neutron Spin Echo Spectroscopy. <i>Biophysical Journal</i> , 2010, 99, 3473-3482.	0.2	40
30	The AUDANA algorithm for automated protein 3D structure determination from NMR NOE data. <i>Journal of Biomolecular NMR</i> , 2016, 65, 51-57.	1.6	36
31	Designing cyclic competence-stimulating peptide (CSP) analogs with pan-group quorum-sensing inhibition activity in <i>Streptococcus pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1689-1699.	3.3	31
32	Broadening the functionality of a J-protein/Hsp70 molecular chaperone system. <i>PLoS Genetics</i> , 2017, 13, e1007084.	1.5	30
33	Large Variations in One-Bond ^{13}C J Couplings in Polypeptides Correlate with Backbone Conformation. <i>Journal of the American Chemical Society</i> , 2000, 122, 2168-2171.	6.6	26
34	Mechanism of Histone H3K4me3 Recognition by the Plant Homeodomain of Inhibitor of Growth 3. <i>Journal of Biological Chemistry</i> , 2016, 291, 18326-18341.	1.6	26
35	Impact of Strand Number on Parallel β -Sheet Stability. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14336-14339.	7.2	25
36	Global shape mimicry of tRNA within a viral internal ribosome entry site mediates translational reading frame selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6446-55.	3.3	24

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37	Progressive Stereo Locking (PSL): A Residual Dipolar Coupling Based Force Field Method for Determining the Relative Configuration of Natural Products and Other Small Molecules. <i>ACS Chemical Biology</i> , 2017, 12, 2157-2163.	1.6	24
38	Chemical Genomics, Structure Elucidation, and <i>in Vivo</i> Studies of the Marine-Derived Anticlostridial Ecteinamycin. <i>ACS Chemical Biology</i> , 2017, 12, 2287-2295.	1.6	24
39	NMR structure of the mengovirus Leader protein zinc-finger domain. <i>FEBS Letters</i> , 2008, 582, 896-900.	1.3	23
40	Solution structure of a small protein containing a fluorinated side chain in the core. <i>Protein Science</i> , 2006, 16, 14-19.	3.1	20
41	Brazzein, a Small, Sweet Protein: Effects of Mutations on its Structure, Dynamics and Functional Properties. <i>Chemical Senses</i> , 2005, 30, i90-i91.	1.1	19
42	Structure and Function of the PriC DNA Replication Restart Protein. <i>Journal of Biological Chemistry</i> , 2016, 291, 18384-18396.	1.6	17
43	Structural Characterization of Competence-Stimulating Peptide Analogues Reveals Key Features for ComD1 and ComD2 Receptor Binding in <i>Streptococcus pneumoniae</i> . <i>Biochemistry</i> , 2018, 57, 5359-5369.	1.2	17
44	The BRPF1 bromodomain is a molecular reader of di-acetyllsine. <i>Current Research in Structural Biology</i> , 2020, 2, 104-115.	1.1	16
45	Temperature-dependent conformational change affecting Tyr11 and sweetness loops of brazzein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 919-925.	1.5	15
46	Structural Insights into the Recognition of Mono- and Diacetylated Histones by the ATAD2B Bromodomain. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 12799-12813.	2.9	15
47	Highly Stable, Amide-Bridged Autoinducing Peptide Analogues that Strongly Inhibit the AgrC Quorum Sensing Receptor in <i>Staphylococcus aureus</i> . <i>Angewandte Chemie</i> , 2016, 128, 9059-9063.	1.6	14
48	Insights into the Cross Talk between Effector and Allosteric Lobes of KRAS from Methyl Conformational Dynamics. <i>Journal of the American Chemical Society</i> , 2022, 144, 4196-4205.	6.6	14
49	Letter to the Editor: Solution Structure of a Homodimeric Hypothetical Protein, At5g22580, a Structural Genomics Target from <i>Arabidopsis thaliana</i> . <i>Journal of Biomolecular NMR</i> , 2004, 29, 387-390.	1.6	13
50	HIFI-C: a robust and fast method for determining NMR couplings from adaptive 3D to 2D projections. <i>Journal of Biomolecular NMR</i> , 2007, 38, 341-351.	1.6	13
51	Structural and Dynamics Studies of the D54A Mutant of Human T Cell Leukemia Virus-1 Capsid Protein. <i>Journal of Biological Chemistry</i> , 2005, 280, 6792-6801.	1.6	12
52	Solution structures of Mengovirus Leader protein, its phosphorylated derivatives, and in complex with nuclear transport regulatory protein, RanGTPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15792-15797.	3.3	12
53	Probabilistic validation of protein NMR chemical shift assignments. <i>Journal of Biomolecular NMR</i> , 2016, 64, 17-25.	1.6	11
54	Function and solution structure of the <i>Arabidopsis thaliana</i> RALF8 peptide. <i>Protein Science</i> , 2019, 28, 1115-1126.	3.1	10

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55	Conformational Switch to a β -Turn in a Staphylococcal Quorum Sensing Signal Peptide Causes a Dramatic Increase in Potency. <i>Journal of the American Chemical Society</i> , 2020, 142, 750-761.	6.6	10
56	X-ray structure of Arabidopsis At1g77680, 12-oxophytodienoate reductase isoform 1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 206-208.	1.5	9
57	Solution structure of a single-domain thiosulfate sulfurtransferase from Arabidopsis thaliana. <i>Protein Science</i> , 2006, 15, 2836-2841.	3.1	9
58	One-Sample Approach to Determine the Relative Orientations of Proteins in Ternary and Binary Complexes from Residual Dipolar Coupling Measurements. <i>Journal of the American Chemical Society</i> , 2009, 131, 14138-14139.	6.6	9
59	Conformational flexibility in the enterovirus RNA replication platform. <i>Rna</i> , 2019, 25, 376-387.	1.6	9
60	Coordination of Di-Acetylated Histone Ligands by the ATAD2 Bromodomain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9128.	1.8	9
61	Structure and evolution of the 4-helix bundle domain of Zuotin, a J-domain protein co-chaperone of Hsp70. <i>PLoS ONE</i> , 2019, 14, e0217098.	1.1	8
62	Backbone ^{15}N relaxation analysis of the N-terminal domain of the HTLV-I capsid protein and comparison with the capsid protein of HIV-1. <i>Protein Science</i> , 2003, 12, 973-981.	3.1	7
63	Structural dependencies of protein backbone ^{13}C couplings. <i>Protein Science</i> , 2008, 17, 768-776.	3.1	7
64	Structure of RNA Stem Loop B from the Picornavirus Replication Platform. <i>Biochemistry</i> , 2017, 56, 2549-2557.	1.2	7
65	Resonance assignments for the two N-terminal RNA recognition motifs (RRM) of the <i>S. cerevisiae</i> Pre-mRNA Processing Protein Prp24. <i>Journal of Biomolecular NMR</i> , 2006, 36, 58-58.	1.6	5
66	How Sweet It Is: Detailed Molecular and Functional Studies of Brazzein, a Sweet Protein and Its Analogs. <i>ACS Symposium Series</i> , 2008, , 560-572.	0.5	5
67	NMRFAM-SDF: a protein structure determination framework. <i>Journal of Biomolecular NMR</i> , 2015, 62, 481-495.	1.6	4
68	NMR Structures and Dynamics in a Prohead RNA Loop that Binds Metal Ions. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3841-3846.	2.1	4
69	Solution structure and dynamics of the mitochondrial-targeted GTPase-activating protein (GAP) VopE by an integrated NMR / SAXS approach. <i>Protein Science</i> , 2022, , .	3.1	2
70	Solution Structure Determination of Arabidopsis Thaliana RALF8 Illustrates the use of Cutting-Edge Software Developed at the National Magnetic Resonance Facility at Madison. <i>Biophysical Journal</i> , 2020, 118, 62a.	0.2	0