Manju Bansal

List of Publications by Year in descending order

74 papers	3,066 citations	201674 27 h-index	168389 53 g-index
75 all docs	75 docs citations	75 times ranked	3557 citing authors

#	Article	IF	Citations
1	A standard reference frame for the description of nucleic acid base-pair geometry 1 1Edited by P. E. Wright 2 2This is a document of the Nomenclature Committee of IUBMB (NC-IUBMB)/IUPAC-IUBMB Joint Commission on Biochemical Nomenclature (JCBN), whose members are R. Cammack (chairman), A. Bairoch, H.M. Berman, S. Boyce, C.R. Cantor, K. Elliott, D. Horton, M. Kanehisa, A. Kotyk, G.P. Moss, N. Sharon and K.F. Tipton.. Journal of Molecular Biology, 2001, 313, 229-237.	4.2	533
2	A novel method for prokaryotic promoter prediction based on DNA stability. BMC Bioinformatics, 2005, 6, 1.	2.6	462
3	Collagen Structure: The Madras Triple Helix and the Current Scenario. IUBMB Life, 2005, 57, 161-172.	3.4	160
4	HELANAL: A Program to Characterize Helix Geometry in Proteins. Journal of Biomolecular Structure and Dynamics, 2000, 17, 811-819.	3.5	157
5	Dissecting Î±-helices: Position-specific analysis of Î±-helices in globular proteins. Proteins: Structure, Function and Bioinformatics, 1998, 31, 460-476.	2.6	126
6	Structural properties of promoters: similarities and differences between prokaryotes and eukaryotes. Nucleic Acids Research, 2005, 33, 3165-3175.	14.5	117
7	Geometrical and Sequence Characteristics of Î±-Helices in Globular Proteins. Biophysical Journal, 1998, 75, 1935-1944.	0.5	102
8	Role of DNA sequence based structural features of promoters in transcription initiation and gene expression. Current Opinion in Structural Biology, 2014, 25, 77-85.	5.7	81
9	C-H..O hydrogen bonds in minor groove of A-tracts in DNA double helices. Journal of Molecular Biology, 1999, 294, 1149-1158.	4.2	72
10	HELANAL-Plus: a web server for analysis of helix geometry in protein structures. Journal of Biomolecular Structure and Dynamics, 2012, 30, 773-783.	3.5	62
11	Flexibility and structure of flanking DNA impact transcription factor affinity for its core motif. Nucleic Acids Research, 2018, 46, 11883-11897.	14.5	62
12	Local Variability and Base Sequence Effects in DNA Crystal Structures. Journal of Biomolecular Structure and Dynamics, 1990, 8, 539-572.	3.5	55
13	Conformational specificity of non-canonical base pairs and higher order structures in nucleic acids: crystal structure database analysis. Journal of Computer-Aided Molecular Design, 2006, 20, 629-645.	2.9	54
14	G-Quadruplex Structure Can Be Stable with Only Some Coordination Sites Being Occupied by Cations:Â A Six-Nanosecond Molecular Dynamics Study. Journal of Physical Chemistry B, 2001, 105, 7572-7578.	2.6	52
15	<scp>DNA</scp> structural features of eukaryotic <scp>TATA</scp>â€containing and <scp>TATA</scp>â€less promoters. FEBS Open Bio, 2017, 7, 324-334.	2.3	48
16	A Self-Consistent Formulation for Analysis and Generation of Non-Uniform DNA Structures. Journal of Biomolecular Structure and Dynamics, 1989, 6, 635-653.	3.5	45
17	High-quality annotation of promoter regions for 913 bacterial genomes. Bioinformatics, 2010, 26, 3043-3050.	4.1	45
18	An ensemble of B-DNA dinucleotide geometries lead to characteristic nucleosomal DNA structure and provide plasticity required for gene expression. BMC Structural Biology, 2011, 11, 1.	2.3	44

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19	DNA Free Energy-Based Promoter Prediction and Comparative Analysis of Arabidopsis and Rice Genomes Â Â Â. Plant Physiology, 2011, 156, 1300-1315.	4.8	43
20	Structural Insights into the Effect of Hydration and Ions on A-Tract DNA: A Molecular Dynamics Study. Biophysical Journal, 2003, 85, 1805-1816.	0.5	42
21	Groove Width and Depth of B-DNA Structures Depend on Local Variation in Slide. Journal of Biomolecular Structure and Dynamics, 1992, 10, 213-226.	3.5	39
22	Relative stability of DNA as a generic criterion for promoter prediction: whole genome annotation of microbial genomes with varying nucleotide base composition. Molecular BioSystems, 2009, 5, 1758.	2.9	37
23	Conformational polymorphism in G-tetraplex structures: strand reversal by base flipover or sugar flipover. Nucleic Acids Research, 1993, 21, 1767-1774.	14.5	35
24	Identification of putative promoters in 48 eukaryotic genomes on the basis of DNA free energy. Scientific Reports, 2018, 8, 4520.	3.3	35
25	Dissecting Ï€â€helices: sequence, structure and function. FEBS Journal, 2015, 282, 4415-4432.	4.7	32
26	Identification and annotation of promoter regions in microbial genome sequences on the basis of DNA stability. Journal of Biosciences, 2007, 32, 851-862.	1.1	31
27	Variation of gene expression in plants is influenced by gene architecture and structural properties of promoters. PLoS ONE, 2019, 14, e0212678.	2.5	29
28	Small local variations in B-form DNA lead to a large variety of global geometries which can accommodate most DNA-binding protein motifs. BMC Structural Biology, 2009, 9, 24.	2.3	28
29	PromBase: a web resource for various genomic features and predicted promoters in prokaryotic genomes. BMC Research Notes, 2011, 4, 257.	1.4	27
30	Genome-Wide Targets Regulated by the OsMADS1 Transcription Factor Reveals Its DNA Recognition Properties. Plant Physiology, 2016, 172, 372-388.	4.8	25
31	Conformational polymorphism in telomeric structures: Loop orientation and interloop pairing in d(G4TnG4). Biopolymers, 1994, 34, 1187-1211.	2.4	23
32	An assessment of three dinucleotide parameters to predict DNA curvature by quantitative comparison with experimental data. Nucleic Acids Research, 2003, 31, 2647-2658.	14.5	22
33	Identification of local variations within secondary structures of proteins. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1077-1086.	2.5	22
34	Structural and functional analyses of PolyProline-II helices in globular proteins. Journal of Structural Biology, 2016, 196, 414-425.	2.8	21
35	Molecular Modeling Studies on Amphotericin B and its Complex with Phospholipid. Journal of Biomolecular Structure and Dynamics, 1995, 12, 957-970.	3.5	17
36	Effect of Coordinated Ions on Structure and Flexibility of Parallel G-quadruplexes: A Molecular Dynamics Study. Journal of Biomolecular Structure and Dynamics, 2000, 17, 11-28.	3.5	16

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37	MolBridge: a program for identifying nonbonded interactions in small molecules and biomolecular structures. Journal of Applied Crystallography, 2014, 47, 1772-1776.	4.5	16
38	Unveiling DNA structural features of promoters associated with various types of TSSs in prokaryotic transcriptomes and their role in gene expression. DNA Research, 2017, 24, dsw045.	3.4	16
39	Sequence-dependent molecular conformation of polynucleotides: right and left-handed helices. International Journal of Biological Macromolecules, 1981, 3, 2-8.	7.5	14
40	Structural Polymorphism in d(T)₁₂.d(A)₁₂*d(T)₁₂Triple Helices. Journal of Biomolecular Structure and Dynamics, 1995, 13, 493-505.	3.5	14
41	A Nanosecond Molecular Dynamics Study of Antiparallel d(G)₇Quadruplex Structures: Effect of the Coordinated Cations. Journal of Biomolecular Structure and Dynamics, 2001, 18, 647-669.	3.5	14
42	Stacking interactions in RNA and DNA: Rollâ€slide energy hyperspace for ten unique dinucleotide steps. Biopolymers, 2015, 103, 134-147.	2.4	14
43	DNA STRUCTURAL FEATURES AND ARCHITECTURE OF PROMOTER REGIONS PLAY A ROLE IN GENE RESPONSIVENESS OF S. cerevisiae. Journal of Bioinformatics and Computational Biology, 2013, 11, 1343001.	0.8	13
44	DNA Polymorphism and Local Variation in Base-Pair Orientation: A Theoretical Rationale. Journal of Biomolecular Structure and Dynamics, 1991, 9, 127-142.	3.5	12
45	Sequence dependent variations in RNA duplex are related to non-canonical hydrogen bond interactions in dinucleotide steps. BMC Research Notes, 2014, 7, 83.	1.4	12
46	Characterization of structural and free energy properties of promoters associated with Primary and Operon TSS in Helicobacter pylori genome and their orthologs. Journal of Biosciences, 2012, 37, 423-431.	1.1	11
47	DNA Structure and Promoter Engineering. , 2015, , 241-254.		10
48	Editorial overview: Theory and simulation: Tools for solving the insolvable. Current Opinion in Structural Biology, 2014, 25, iv-v.	5.7	9
49	Local Structural and Environmental Factors Define the Efficiency of an RNA Pseudoknot Involved in Programmed Ribosomal Frameshift Process. Journal of Physical Chemistry B, 2014, 118, 11905-11920.	2.6	9
50	Helix perturbations in membrane proteins assist in inter-helical interactions and optimal helix positioning in the bilayer. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2804-2817.	2.6	9
51	Structural features of DNA are conserved in the promoter region of orthologous genes across different strains ofHelicobacter pylori. FEMS Microbiology Letters, 2016, 363, fnw207.	1.8	9
52	Sequence-Independent Recombination Triple Helices: A Molecular Dynamics Study. Journal of Biomolecular Structure and Dynamics, 1997, 15, 333-345.	3.5	8
53	RNAHelix: computational modeling of nucleic acid structures with Watsonâ€“Crick and non-canonical base pairs. Journal of Computer-Aided Molecular Design, 2017, 31, 219-235.	2.9	8
54	Modelling studies on neurodegenerative disease-causing triplet repeat sequences d(GGC/GCC)n and d(CAG/CTG)n. Journal of Biosciences, 2001, 26, 649-665.	1.1	7

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55	ROLE OF NONâ€PLANAR PEPTIDE UNIT IN REGULAR POLYPEPTIDE HELICES:. International Journal of Peptide and Protein Research, 1981, 18, 374-382.	0.1	7
56	The role of sequence in altering the unfolding pathway of an RNA pseudoknot: a steered molecular dynamics study. Physical Chemistry Chemical Physics, 2016, 18, 28767-28780.	2.8	7
57	Toward a Universal Structural and Energetic Model for Prokaryotic Promoters. Biophysical Journal, 2018, 115, 1180-1189.	0.5	7
58	Structure factor calculations of various DNA duplexes. International Journal of Quantum Chemistry, 1981, 20, 407-417.	2.0	6
59	Sequence and conformational preferences at termini of Î±â€helices in membrane proteins: Role of the helix environment. Proteins: Structure, Function and Bioinformatics, 2014, 82, 3420-3436.	2.6	5
60	Insights into the Structural Dynamics of Nucleocytoplasmic Transport of tRNA by Exportin-t. Biophysical Journal, 2016, 110, 1264-1279.	0.5	5
61	RNA-mediated translation regulation in viral genomes: computational advances in the recognition of sequences and structures. Briefings in Bioinformatics, 2020, 21, 1151-1163.	6.5	5
62	Molecular mechanics studies on poly(purine) Â· poly(pyrimidine) sequences in DNA: Polymorphism and local variability. Biopolymers, 1989, 28, 531-548.	2.4	4
63	Energetics of Left and Right Handed Models of DNA. Journal of Biomolecular Structure and Dynamics, 1987, 4, 1027-1040.	3.5	2
64	The Madras triple helix: Origins and current status. Resonance, 2001, 6, 38-47.	0.3	2
65	New insight into the architecture of oxyâ€anion pocket in unliganded conformation of <scp>GAT</scp> domains: A <scp>MD</scp>â€simulation study. Proteins: Structure, Function and Bioinformatics, 2016, 84, 360-373.	2.6	2
66	Data on diverse roles of helix perturbations in membrane proteins. Data in Brief, 2016, 9, 781-802.	1.0	2
67	Dynamics of physiologically relevant noncanonical DNA structures: an overview from experimental and theoretical studies. Briefings in Functional Genomics, 2018, 18, 192-204.	2.7	2
68	Biomolecular Structures: Prediction, Identification and Analyses. , 2019, , 504-534.		2
69	Molecular Dynamics Simulations on Parallel and Antiparallel C.G*G Triplexes. Journal of Biomolecular Structure and Dynamics, 1998, 16, 511-526.	3.5	1
70	Modulation of Gene Expression by Gene Architecture and Promoter Structure. , 2018, , .		1
71	Symposia lectures. Journal of Biosciences, 1999, 24, 5-31.	1.1	0
72	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	1.1	0

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73	Intrinsic structural variability of DNA allows multiple genomic encoding for nucleosomesComment on â€œCracking the chromatin code: Precise rule of nucleosome positioningâ€•by E.N. Trifonov. Physics of Life Reviews, 2011, 8, 67-68.	2.8	0
74	Nucleic acids in disease and disorder: Understanding the language of life emerging from the â€˜ABCâ€™ of DNA. Journal of Biosciences, 2012, 37, 375-378.	1.1	0