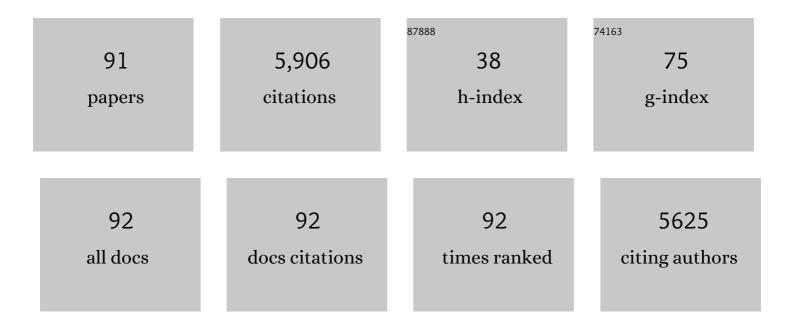
List of Publications by Year in descending order

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AKINODI SADAI

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Large-scale recognition of high-affinity protease–inhibitor complexes using topological autocorrelation and support vector machines. Molecular Simulation, 2016, 42, 420-433. | 2.0 | 2 |
| 2 | Transcription Factors and DNA Elements in Eukaryote. , 2013, , 2224-2227. | | 0 |
| 3 | A new method for evaluating the specificity of indirect readout in protein–DNA recognition. Nucleic Acids Research, 2012, 40, e129-e129. | 14.5 | 19 |
| 4 | Analysis of the relationships between evolvability, thermodynamics, and the functions of intrinsically disordered proteins/regions. Computational Biology and Chemistry, 2012, 41, 51-57. | 2.3 | 18 |
| 5 | Genetic algorithm optimization in drug design QSAR: Bayesian-regularized genetic neural networks (BRGNN) and genetic algorithm-optimized support vectors machines (GA-SVM). Molecular Diversity, 2011, 15, 269-289. | 3.9 | 81 |
| 6 | Analysis of electric moments of RNA-binding proteins: implications for mechanism and prediction. BMC Structural Biology, 2011, 11, 8. | 2.3 | 24 |
| 7 | CCRXP: exploring clusters of conserved residues in protein structures. Nucleic Acids Research, 2010, 38, W398-W401. | 14.5 | 14 |
| 8 | Proteochemometric Recognition of Stable Kinase Inhibition Complexes Using Topological Autocorrelation and Support Vector Machines. Journal of Chemical Information and Modeling, 2010, 50, 1179-1188. | 5.4 | 30 |
| 9 | Thermodynamic Database for Proteins: Features and Applications. Methods in Molecular Biology, 2010, 609, 97-112. | 0.9 | 17 |
| 10 | EVALUATION OF DNA INTRAMOLECULAR INTERACTIONS FOR NUCLEOSOME POSITIONING IN YEAST. , 2009, , . | | 0 |
| 11 | A generalized conformational energy function of DNA derived from molecular dynamics simulations. Nucleic Acids Research, 2009, 37, e135-e135. | 14.5 | 7 |
| 12 | Prediction of mono- and di-nucleotide-specific DNA-binding sites in proteins using neural networks. BMC Structural Biology, 2009, 9, 30. | 2.3 | 35 |
| 13 | Δ <i>G</i> â€based prediction and experimental confirmation of SYCRP1â€binding sites on the <i>Synechocystis</i> genome. FEBS Journal, 2008, 275, 4786-4795. | 4.7 | 11 |
| 14 | uORFs, reinitiation and alternative translation start sites in human mRNAs. FEBS Letters, 2008, 582, 1293-1297. | 2.8 | 57 |
| 15 | Protein–DNA interactions: structural, thermodynamic and clustering patterns of conserved residues in DNA-binding proteins. Nucleic Acids Research, 2008, 36, 5922-5932. | 14.5 | 79 |
| 16 | Sequence-dependent DNA deformability studied using molecular dynamics simulations. Nucleic Acids Research, 2007, 35, 6063-6074. | 14.5 | 111 |
| 17 | Indirect readout in drug-DNA recognition: role of sequence-dependent DNA conformation. Nucleic Acids Research, 2007, 36, 376-386. | 14.5 | 20 |
| 18 | Dimensionality of amino acid space and solvent accessibility prediction with neural networks. Computational Biology and Chemistry, 2006, 30, 160-168. | 2.3 | 7 |

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| 19 | Atom-wise statistics and prediction of solvent accessibility in proteins. Biophysical Chemistry, 2006, 124, 145-154. | 2.8 | 10 |
| 20 | Classification of Protein-DNA Complexes Based on Structural Descriptors. Structure, 2006, 14, 1355-1367. | 3.3 | 39 |
| 21 | ProTherm and ProNIT: thermodynamic databases for proteins and protein-nucleic acid interactions. Nucleic Acids Research, 2006, 34, D204-D206. | 14.5 | 361 |
| 22 | ReadOut: structure-based calculation of direct and indirect readout energies and specificities for protein-DNA recognition. Nucleic Acids Research, 2006, 34, W124-W127. | 14.5 | 36 |
| 23 | PSSM-based prediction of DNA binding sites in proteins. BMC Bioinformatics, 2005, 6, 33. | 2.6 | 224 |
| 24 | The role of alternative translation start sites in the generation of human protein diversity. Molecular Genetics and Genomics, 2005, 273, 491-496. | 2.1 | 61 |
| 25 | INTEGRATION OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY TO UNDERSTAND PROTEIN-DNA RECOGNITION MECHANISM. Journal of Bioinformatics and Computational Biology, 2005, 03, 169-183. | 0.8 | 9 |
| 26 | Protein-DNA Recognition Patterns and Predictions. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 379-398. | 18.3 | 164 |
| 27 | Sequence-Dependent Conformational Energy of DNA Derived from Molecular Dynamics Simulations:Â Toward Understanding the Indirect Readout Mechanism in Proteinâ^'DNA Recognition. Journal of the American Chemical Society, 2005, 127, 16074-16089. | 13.7 | 50 |
| 28 | Role of inter and intramolecular interactions in protein–DNA recognition. Gene, 2005, 364, 108-113. | 2.2 | 28 |
| 29 | Knowledge-based prediction of DNA atomic structure from nucleic sequence. Genome Informatics, 2005, 16, 12-21. | 0.4 | 4 |
| 30 | ProTherm, version 4.0: thermodynamic database for proteins and mutants. Nucleic Acids Research, 2004, 32, 120D-121. | 14.5 | 307 |
| 31 | Translational polymorphism as a potential source of plant proteins variety in Arabidopsis thaliana. Bioinformatics, 2004, 20, 445-447. | 4.1 | 19 |
| 32 | Analysis and prediction of DNA-binding proteins and their binding residues based on composition, sequence and structural information. Bioinformatics, 2004, 20, 477-486. | 4.1 | 327 |
| 33 | ASAView: Database and tool for solvent accessibility representation in proteins. BMC Bioinformatics, 2004, 5, 51. | 2.6 | 248 |
| 34 | Look-up tables for protein solvent accessibility prediction and nearest neighbor effect analysis. Biopolymers, 2004, 75, 209-216. | 2.4 | 23 |
| 35 | Intermolecular and Intramolecular Readout Mechanisms in Protein–DNA Recognition. Journal of Molecular Biology, 2004, 337, 285-294. | 4.2 | 116 |
| 36 | Moment-based Prediction of DNA-binding Proteins. Journal of Molecular Biology, 2004, 341, 65-71. | 4.2 | 124 |

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| 37 | Systematic single base-pair substitution analysis of DNA binding by the cAMP receptor protein in cyanobacteriumSynechocystissp. PCC 6803. FEBS Letters, 2004, 563, 55-58. | 2.8 | 12 |
| 38 | DNA-Protein Interactions. , 2004, , 241-278. | | 1 |
| 39 | Real value prediction of solvent accessibility from amino acid sequence. Proteins: Structure, Function and Bioinformatics, 2003, 50, 629-635. | 2.6 | 180 |
| 40 | Free energy calculations for the relative binding affinity between DNA and ?-repressor. Proteins: Structure, Function and Bioinformatics, 2003, 52, 129-136. | 2.6 | 12 |
| 41 | Anatomy of specific interactions between ? repressor and operator DNA. Proteins: Structure, Function and Bioinformatics, 2003, 53, 33-43. | 2.6 | 10 |
| 42 | ProTherm, Thermodynamic Database for Proteins and Mutants: developments in version 3.0. Nucleic Acids Research, 2002, 30, 301-302. | 14.5 | 59 |
| 43 | Specificity of Protein–DNA Recognition Revealed by Structure-based Potentials: Symmetric/Asymmetric and Cognate/Non-cognate Binding. Journal of Molecular Biology, 2002, 322, 907-915. | 4.2 | 60 |
| 44 | Importance of mutant position in Ramachandran plot for predicting protein stability of surface mutations. Biopolymers, 2002, 64, 210-220. | 2.4 | 42 |
| 45 | Filling a cavity dramatically increases pressure stability of the c-Myb R2 subdomain. Proteins: Structure, Function and Bioinformatics, 2001, 45, 96-101. | 2.6 | 39 |
| 46 | Thermodynamic databases for proteins and protein-nucleic acid interactions. Biopolymers, 2001, 61, 121-126. | 2.4 | 20 |
| 47 | Stability analysis for the cavity-filling mutations of the Myb DNA-binding domain utilizing free-energy calculations. , 2000, 38, 197-209. | | 17 |
| 48 | Solvent density and long-range dipole field around a DNA-binding protein studied by molecular dynamics. Proteins: Structure, Function and Bioinformatics, 2000, 40, 193-206. | 2.6 | 38 |
| 49 | Multicanonical Monte Carlo calculation of the free-energy map of the base-amino acid interaction. Journal of Computational Chemistry, 2000, 21, 954-962. | 3.3 | 18 |
| 50 | ProTherm, version 2.0: thermodynamic database for proteins and mutants. Nucleic Acids Research, 2000, 28, 283-285. | 14.5 | 62 |
| 51 | Importance of Surrounding Residues for Protein Stability of Partially Buried Mutations. Journal of Biomolecular Structure and Dynamics, 2000, 18, 281-295. | 3.5 | 41 |
| 52 | Cavity-Filling Mutations Enhance Protein Stability by Lowering the Free Energy of Native State. Journal of Physical Chemistry B, 2000, 104, 3705-3711. | 2.6 | 13 |
| 53 | Prediction of DNA Target Sites by Regulatory Proteins Seibutsu Butsuri, 2000, 40, 162-166. | 0.1 | 0 |
| 54 | Role of structural and sequence information in the prediction of protein stability changes: comparison between buried and partially buried mutations. Protein Engineering, Design and Selection, 1999, 12, 549-555. | 2.1 | 128 |

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| 55 | Oligonucleotides Containing a 6-Substituted Pyrimidine Base: A Design for Myb Inhibitors. Nucleosides & Nucleotides, 1999, 18, 1501-1502. | 0.5 | 1 |
| 56 | Important amino acid properties for enhanced thermostability from mesophilic to thermophilic proteins. Biophysical Chemistry, 1999, 82, 51-67. | 2.8 | 214 |
| 57 | Molecular dynamics study on mobility and dipole ordering of solvent around proteins: effects of periodic-box size and protein charge. Chemical Physics Letters, 1999, 306, 395-401. | 2.6 | 18 |
| 58 | Relationship between amino acid properties and protein stability: buried mutations. The Protein Journal, 1999, 18, 565-578. | 1.1 | 72 |
| 59 | Properties of phosphorothioate DNA analogs. An ab initio study of prototype model linkages derived from dimethyl-phosphate anion. Computational and Theoretical Chemistry, 1999, 460, 103-116. | 1.5 | 6 |
| 60 | Structure-based prediction of DNA target sites by regulatory proteins. Proteins: Structure, Function and Bioinformatics, 1999, 35, 114-131. | 2.6 | 160 |
| 61 | Free-Energy Maps of Baseâ~'Amino Acid Interactions for DNAâ~'Protein Recognition. Journal of the American Chemical Society, 1999, 121, 6152-6157. | 13.7 | 44 |
| 62 | Shape and energetics of a cavity in c-Myb probed by natural and non-natural amino acid mutations. Journal of Molecular Biology, 1999, 292, 909-920. | 4.2 | 33 |
| 63 | The Mutant RecA Proteins, RecAR243Q and RecAK245N, Exhibit Defective DNA Binding in Homologous Pairing. Archives of Biochemistry and Biophysics, 1999, 365, 83-91. | 3.0 | 29 |
| 64 | Construction of an Artificial Tandem Protein of the c-Myb DNA-Binding Domain and Analysis of Its DNA Binding Specificity. Biochemical and Biophysical Research Communications, 1999, 262, 94-97. | 2.1 | 12 |
| 65 | Triplex Formation of Chemically Modified Homopyrimidine Oligonucleotides:  Thermodynamic and Kinetic Studies. Biochemistry, 1999, 38, 14653-14659. | 2.5 | 30 |
| 66 | Thermodynamics of specific and non-specific DNA binding by the c-myb DNA-binding domain. Journal of Molecular Biology, 1998, 276, 571-590. | 4.2 | 100 |
| 67 | Unique Mode of GCC Box Recognition by the DNA-binding Domain of Ethylene-responsive Element-binding Factor (ERF Domain) in Plant. Journal of Biological Chemistry, 1998, 273, 26857-26861. | 3.4 | 355 |
| 68 | Multi-state thermal transitions of proteins - DNA-binding domain of the c-Myb oncoprotein. Pure and Applied Chemistry, 1998, 70, 671-676. | 1.9 | 3 |
| 69 | Investigation of the Pyrimidine Preference by the c-Myb DNA-binding Domain at the Initial Base of the Consensus Sequence. Journal of Biological Chemistry, 1997, 272, 17966-17971. | 3.4 | 20 |
| 70 | Temperature Dependence and Sequence Specificity of DNA Triplex Formation:Â An Analysis Using Isothermal Titration Calorimetry. Journal of the American Chemical Society, 1996, 118, 4532-4538. | 13.7 | 70 |
| 71 | The cavity in the hydrophobic core of Myb DNA-binding domain is reserved for DNA recognition and trans-activation. Nature Structural Biology, 1996, 3, 178-187. | 9.7 | 243 |
| 72 | A Possible Role of the C-terminal Domain of the RecA Protein. Journal of Biological Chemistry, 1996, 271, 33515-33524. | 3.4 | 72 |

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| 73 | Determination of the NMR solution structure of a specific DNA complex of the Myb DNA-binding domain. Journal of Biomolecular NMR, 1995, 6, 294-305. | 2.8 | 4 |
| 74 | Comparison of the free and DNA-complexed forms of the DMA-binding domain from c-Myb. Nature Structural and Molecular Biology, 1995, 2, 309-320. | 8.2 | 156 |
| 75 | The Affinity Maturation of Anti-4-hydroxy-3-nitrophenylacetyl Mouse Monoclonal Antibody. Journal of Biological Chemistry, 1995, 270, 22218-22222. | 3.4 | 41 |
| 76 | Solution structure of a specific DNA complex of the Myb DNA-binding domain with cooperative recognition helices. Cell, 1994, 79, 639-648. | 28.9 | 486 |
| 77 | Thermodynamic and kinetic studies of DNA triplex formation of an oligohomopyrimidine and a matched duplex by filter binding assay. Biochemistry, 1993, 32, 8963-8969. | 2.5 | 72 |
| 78 | Thermodynamic and Kinetic Analyses of DNA Triplex Formation: Application of Filter-Binding Assay. Journal of Biomolecular Structure and Dynamics, 1993, 11, 245-252. | 3.5 | 13 |
| 79 | Sequence Context of Oligomer Tracts in Eukaryotic DNA: Biological and Conformational Implications. Journal of Biomolecular Structure and Dynamics, 1988, 6, 543-562. | 3.5 | 9 |
| 80 | Relationship Between Curved DNA Conformations and Slow Gel Migration. Journal of Biomolecular Structure and Dynamics, 1987, 4, 561-567. | 3.5 | 18 |
| 81 | Hydrophobic Interactions in the Major Groove Can Influence DNA Local Structure. Journal of Biomolecular Structure and Dynamics, 1986, 4, 41-48. | 3.5 | 42 |
| 82 | Theoretical studies on the interaction of proteins with base pairs. II. Effect of external H-bond interactions on the stability of guanine-cytosine and non-Watson-Crick pairs. International Journal of Quantum Chemistry, 1985, 28, 399-409. | 2.0 | 9 |
| 83 | Theoretical studies on the interaction of proteins with base pairs. I.Ab initio calculation for the effect of H-bonding interaction of proteins on the stability of adenine-uracil pair. International Journal of Quantum Chemistry, 1984, 25, 527-533. | 2.0 | 20 |
| 84 | Comment on â€~â€~lRâ€spectroscopic study of isotope effects on the NH/ND stretching bands of mesoâ€ŧetraphenylporphine and vibrational hydrogen tunneling''. Journal of Chemical Physics, 1984, 80, 5341-5343. | 3.0 | 20 |
| 85 | Dynamics of proton migration in free base porphines. Journal of Chemical Physics, 1982, 76, 5554-5563. | 3.0 | 64 |
| 86 | Theoretical Studies of Photoisomerization in Visual Pigments. II. Numerical Calculation. Journal of the Physical Society of Japan, 1982, 51, 3309-3317. | 1.6 | 1 |
| 87 | Theoretical Studies of Photoisomerization in Visual Pigments. I. Formulation. Journal of the Physical Society of Japan, 1982, 51, 3302-3308. | 1.6 | 3 |
| 88 | PROTON TRANSFER IN THE PRIMARY PROCESS OF VISION. Photochemistry and Photobiology, 1981, 33, 875-881. | 2.5 | 8 |
| 89 | TEMPERATURE DEPENDENCE OF PHOTOSYNTHETIC EXCITATION TRANSFER—ACTIVATIONLESS TRANSFER. Photochemistry and Photobiology, 1980, 31, 579-583. | 2.5 | 10 |
| 90 | SIMULATION ANALYSIS OF THE PHOTOCONVERSION PROCESS OF SQUID RHODOPSIN AT LIQUID HELIUM TEMPERATURE. Photochemistry and Photobiology, 1980, 32, 199-206. | 2.5 | 12 |

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| 91 | Excitation and Electron Transfer in Photosynthesis. Seibutsu Butsuri, 1980, 20, 75-83. | 0.1 | ο |