

Werner Braun

List of Publications by Citations

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105
papers

7,994
citations

42
h-index

89
g-index

107
ext. papers

8,444
ext. citations

5.2
avg, IF

5.6
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 105 | Efficient computation of three-dimensional protein structures in solution from nuclear magnetic resonance data using the program DIANA and the supporting programs CALIBA, HABAS and GLOMSA. <i>Journal of Molecular Biology</i> , 1991 , 217, 517-30 | 6.5 | 864 |
| 104 | Exact and efficient analytical calculation of the accessible surface areas and their gradients for macromolecules. <i>Journal of Computational Chemistry</i> , 1998 , 19, 319-333 | 3.5 | 802 |
| 103 | Polypeptide secondary structure determination by nuclear magnetic resonance observation of short proton-proton distances. <i>Journal of Molecular Biology</i> , 1984 , 180, 715-40 | 6.5 | 658 |
| 102 | Protein structures in solution by nuclear magnetic resonance and distance geometry. The polypeptide fold of the basic pancreatic trypsin inhibitor determined using two different algorithms, DISGEO and DISMAN. <i>Journal of Molecular Biology</i> , 1987 , 196, 611-39 | 6.5 | 596 |
| 101 | Sequential resonance assignments as a basis for determination of spatial protein structures by high resolution proton nuclear magnetic resonance. <i>Journal of Molecular Biology</i> , 1982 , 155, 311-9 | 6.5 | 488 |
| 100 | Three-dimensional structure of rabbit liver [Cd7]metallothionein-2a in aqueous solution determined by nuclear magnetic resonance. <i>Journal of Molecular Biology</i> , 1988 , 201, 637-57 | 6.5 | 275 |
| 99 | Determination of the complete three-dimensional structure of the alpha-amylase inhibitor tendamistat in aqueous solution by nuclear magnetic resonance and distance geometry. <i>Journal of Molecular Biology</i> , 1988 , 204, 675-724 | 6.5 | 208 |
| 98 | SDAP: database and computational tools for allergenic proteins. <i>Nucleic Acids Research</i> , 2003 , 31, 359-62 | 20.1 | 188 |
| 97 | Distance geometry and related methods for protein structure determination from NMR data. <i>Quarterly Reviews of Biophysics</i> , 1987 , 19, 115-57 | 7 | 181 |
| 96 | Measles virus blind to its epithelial cell receptor remains virulent in rhesus monkeys but cannot cross the airway epithelium and is not shed. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2448-58 | 15.9 | 169 |
| 95 | Selectively receptor-blind measles viruses: Identification of residues necessary for SLAM- or CD46-induced fusion and their localization on a new hemagglutinin structural model. <i>Journal of Virology</i> , 2004 , 78, 302-13 | 6.6 | 164 |
| 94 | Comparison of the high-resolution structures of the alpha-amylase inhibitor tendamistat determined by nuclear magnetic resonance in solution and by X-ray diffraction in single crystals. <i>Journal of Molecular Biology</i> , 1989 , 206, 677-87 | 6.5 | 148 |
| 93 | New quantitative descriptors of amino acids based on multidimensional scaling of a large number of physical-chemical properties. <i>Journal of Molecular Modeling</i> , 2001 , 7, 445-453 | 2 | 136 |
| 92 | Polypeptide fold in the two metal clusters of metallothionein-2 by nuclear magnetic resonance in solution. <i>Journal of Molecular Biology</i> , 1986 , 187, 125-9 | 6.5 | 133 |
| 91 | Automated combined assignment of NOESY spectra and three-dimensional protein structure determination. <i>Journal of Biomolecular NMR</i> , 1997 , 10, 351-62 | 3 | 128 |
| 90 | InterProSurf: a web server for predicting interacting sites on protein surfaces. <i>Bioinformatics</i> , 2007 , 23, 3397-9 | 7.2 | 126 |
| 89 | Efficient search for all low energy conformations of polypeptides by Monte Carlo methods. <i>Journal of Computational Chemistry</i> , 1991 , 12, 1065-1076 | 3.5 | 98 |

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| 88 | Cyclosporin A-cyclophilin complex formation. A model based on X-ray and NMR data. <i>FEBS Letters</i> , 1992 , 300, 291-300 | 3.8 | 85 |
| 87 | The heads of the measles virus attachment protein move to transmit the fusion-triggering signal. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 128-34 | 17.6 | 84 |
| 86 | Three-dimensional structure and actions of immunosuppressants and their immunophilins. <i>FASEB Journal</i> , 1995 , 9, 63-72 | 0.9 | 79 |
| 85 | The program FANTOM for energy refinement of polypeptides and proteins using a Newton-Raphson minimizer in torsion angle space. <i>Biopolymers</i> , 1990 , 29, 679-694 | 2.2 | 79 |
| 84 | Mapping of the primary binding site of measles virus to its receptor CD46. <i>Journal of Biological Chemistry</i> , 1997 , 272, 22072-9 | 5.4 | 74 |
| 83 | Bioinformatics approaches to classifying allergens and predicting cross-reactivity. <i>Immunology and Allergy Clinics of North America</i> , 2007 , 27, 1-27 | 3.3 | 73 |
| 82 | Data mining of sequences and 3D structures of allergenic proteins. <i>Bioinformatics</i> , 2002 , 18, 1358-64 | 7.2 | 73 |
| 81 | Host S-nitrosylation inhibits clostridial small molecule-activated glucosylating toxins. <i>Nature Medicine</i> , 2011 , 17, 1136-41 | 50.5 | 67 |
| 80 | Homology modeling and characterization of IgE binding epitopes of mountain cedar allergen Jun a 3. <i>Biophysical Journal</i> , 2000 , 79, 1601-9 | 2.9 | 66 |
| 79 | Characteristic motifs for families of allergenic proteins. <i>Molecular Immunology</i> , 2009 , 46, 559-68 | 4.3 | 65 |
| 78 | Conformational flexibility of mammalian cytochrome P450 2B4 in binding imidazole inhibitors with different ring chemistry and side chains. Solution thermodynamics and molecular modeling. <i>Journal of Biological Chemistry</i> , 2006 , 281, 8051-61 | 5.4 | 64 |
| 77 | Exact and efficient analytical calculation of the accessible surface areas and their gradients for macromolecules 1998 , 19, 319 | | 61 |
| 76 | Automated detection of conformational epitopes using phage display Peptide sequences. <i>Bioinformatics and Biology Insights</i> , 2009 , 3, 71-81 | 5.3 | 60 |
| 75 | Comprehensive 3D-modeling of allergenic proteins and amino acid composition of potential conformational IgE epitopes. <i>Molecular Immunology</i> , 2008 , 45, 3740-7 | 4.3 | 60 |
| 74 | Nearby clusters of hemagglutinin residues sustain SLAM-dependent canine distemper virus entry in peripheral blood mononuclear cells. <i>Journal of Virology</i> , 2005 , 79, 5857-62 | 6.6 | 58 |
| 73 | Dynamic interaction of the measles virus hemagglutinin with its receptor signaling lymphocytic activation molecule (SLAM, CD150). <i>Journal of Biological Chemistry</i> , 2008 , 283, 11763-71 | 5.4 | 57 |
| 72 | Structural and functional analysis of Aplysia attractins, a family of water-borne protein pheromones with interspecific attractiveness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6929-33 | 11.5 | 52 |
| 71 | A "moving metal mechanism" for substrate cleavage by the DNA repair endonuclease APE-1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 68, 313-23 | 4.2 | 51 |

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| 70 | Sequence specificity, statistical potentials, and three-dimensional structure prediction with self-correcting distance geometry calculations of beta-sheet formation in proteins. <i>Protein Science</i> , 1999 , 8, 326-42 | 6.3 | 51 |
| 69 | Minimization of empirical energy functions in proteins including hydrophobic surface area effects. <i>Journal of Computational Chemistry</i> , 1993 , 14, 510-521 | 3.5 | 51 |
| 68 | Detecting potential IgE-reactive sites on food proteins using a sequence and structure database, SDAP-food. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 4830-7 | 5.7 | 49 |
| 67 | Surface area included in energy refinement of proteins. A comparative study on atomic solvation parameters. <i>Journal of Molecular Biology</i> , 1993 , 233, 275-92 | 6.5 | 48 |
| 66 | Extensive distance geometry calculations with different NOE calibrations: new criteria for structure selection applied to Sandostatin and BPTI. <i>Journal of Biomolecular NMR</i> , 1993 , 3, 307-24 | 3 | 44 |
| 65 | Membrane fusion triggering: three modules with different structure and function in the upper half of the measles virus attachment protein stalk. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38543-51 | 5.4 | 43 |
| 64 | Using property based sequence motifs and 3D modeling to determine structure and functional regions of proteins. <i>Current Medicinal Chemistry</i> , 2004 , 11, 583-93 | 4.3 | 43 |
| 63 | The property distance index PD predicts peptides that cross-react with IgE antibodies. <i>Molecular Immunology</i> , 2009 , 46, 873-83 | 4.3 | 42 |
| 62 | Membrane-protein interactions contribute to efficient 27-hydroxylation of cholesterol by mitochondrial cytochrome P450 27A1. <i>Journal of Biological Chemistry</i> , 2002 , 277, 37582-9 | 5.4 | 42 |
| 61 | Major linear IgE epitopes of mountain cedar pollen allergen Jun a 1 map to the pectate lyase catalytic site. <i>Molecular Immunology</i> , 2003 , 40, 555-62 | 4.3 | 41 |
| 60 | ¹ H nuclear-magnetic-resonance studies of the three-dimensional structure of the cardiotoxin CTXIIb from <i>Naja mossambica mossambica</i> in aqueous solution and comparison with the crystal structures of homologous toxins. <i>FEBS Journal</i> , 1988 , 172, 101-16 | | 39 |
| 59 | Common physical-chemical properties correlate with similar structure of the IgE epitopes of peanut allergens. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 8752-9 | 5.7 | 37 |
| 58 | Aplysia attractin: biophysical characterization and modeling of a water-borne pheromone. <i>Biophysical Journal</i> , 2001 , 81, 463-72 | 2.9 | 37 |
| 57 | Complete relaxation matrix refinement of NMR structures of proteins using analytically calculated dihedral angle derivatives of NOE intensities. <i>Journal of Biomolecular NMR</i> , 1991 , 1, 257-69 | 3 | 37 |
| 56 | Conformational polymorphism of cyclosporin A. <i>Structure</i> , 1994 , 2, 963-72 | 5.2 | 36 |
| 55 | NMR structure of the viral peptide linked to the genome (VPg) of poliovirus. <i>Peptides</i> , 2006 , 27, 1676-84 | 3.8 | 35 |
| 54 | Identifying property based sequence motifs in protein families and superfamilies: application to DNase-1 related endonucleases. <i>Bioinformatics</i> , 2003 , 19, 1381-90 | 7.2 | 35 |
| 53 | Base of the measles virus fusion trimer head receives the signal that triggers membrane fusion. <i>Journal of Biological Chemistry</i> , 2012 , 287, 33026-35 | 5.4 | 34 |

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| 52 | Statistical analysis of physical-chemical properties and prediction of protein-protein interfaces. <i>Journal of Molecular Modeling</i> , 2007 , 13, 1157-67 | 2 | 32 |
| 51 | Unusual role of a cysteine residue in substrate binding and activity of human AP-endonuclease 1. <i>Journal of Molecular Biology</i> , 2008 , 379, 28-37 | 6.5 | 31 |
| 50 | Conformational IgE epitopes of peanut allergens Ara h 2 and Ara h 6. <i>Clinical and Experimental Allergy</i> , 2016 , 46, 1120-1128 | 4.1 | 30 |
| 49 | Molluscan attractins, a family of water-borne protein pheromones with interspecific attractiveness. <i>Peptides</i> , 2005 , 26, 121-9 | 3.8 | 29 |
| 48 | Structural basis for epitope sharing between group 1 allergens of cedar pollen. <i>Molecular Immunology</i> , 2006 , 43, 509-18 | 4.3 | 29 |
| 47 | Structural analysis of linear and conformational epitopes of allergens. <i>Regulatory Toxicology and Pharmacology</i> , 2009 , 54, S11-9 | 3.4 | 27 |
| 46 | Molego-based definition of the architecture and specificity of metal-binding sites. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 58, 200-10 | 4.2 | 26 |
| 45 | Effects of backbone contacts 3Sto the abasic site on the cleavage and the product binding by human apurinic/aprimidinic endonuclease (APE1). <i>Biochemistry</i> , 2004 , 43, 684-9 | 3.2 | 26 |
| 44 | Formulation of Static and Dynamic Conformational Energy Analysis of Biopolymer Systems Consisting of Two or More Molecules. <i>Journal of the Physical Society of Japan</i> , 1984 , 53, 3269-3275 | 1.5 | 26 |
| 43 | Representation of short and long-range handedness in protein structures by signed distance maps. <i>Journal of Molecular Biology</i> , 1983 , 163, 613-21 | 6.5 | 23 |
| 42 | A 3D model for the measles virus receptor CD46 based on homology modeling, Monte Carlo simulations, and hemagglutinin binding studies. <i>Protein Science</i> , 1997 , 6, 588-97 | 6.3 | 22 |
| 41 | Automated assignment and 3D structure calculations using combinations of 2D homonuclear and 3D heteronuclear NOESY spectra. <i>Journal of Biomolecular NMR</i> , 2002 , 22, 249-63 | 3 | 21 |
| 40 | Determining functionally important amino acid residues of the E1 protein of Venezuelan equine encephalitis virus. <i>Journal of Molecular Modeling</i> , 2006 , 12, 921-9 | 2 | 20 |
| 39 | Mechanical stability and differentially conserved physical-chemical properties of titin Ig-domains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 75, 706-18 | 4.2 | 19 |
| 38 | Robust quantitative modeling of peptide binding affinities for MHC molecules using physical-chemical descriptors. <i>Protein and Peptide Letters</i> , 2007 , 14, 903-16 | 1.9 | 19 |
| 37 | Total sequence decomposition distinguishes functional modules, "molegos" in apurinic/aprimidinic endonucleases. <i>BMC Bioinformatics</i> , 2002 , 3, 37 | 3.6 | 18 |
| 36 | An Allergen Portrait Gallery: Representative Structures and an Overview of IgE Binding Surfaces. <i>Bioinformatics and Biology Insights</i> , 2010 , 4, 113-25 | 5.3 | 16 |
| 35 | Stereophyicochemical variability plots highlight conserved antigenic areas in Flaviviruses. <i>Virology Journal</i> , 2005 , 2, 40 | 6.1 | 16 |

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| 34 | Validation of a phage display and computational algorithm by mapping a conformational epitope of Bla g 2. <i>International Archives of Allergy and Immunology</i> , 2012 , 157, 323-30 | 3.7 | 15 |
| 33 | Homology modeling and simulations of nuclease structures. <i>Methods in Molecular Biology</i> , 2001 , 160, 263-86 | 1.4 | 15 |
| 32 | NMR solution structure of poliovirus uridylyated peptide linked to the genome (VPgpU). <i>Peptides</i> , 2010 , 31, 1441-8 | 3.8 | 14 |
| 31 | MD simulation and experimental evidence for Mg ²⁺ binding at the B site in human AP endonuclease 1. <i>Bioinformatics</i> , 2011 , 7, 184-98 | 1.1 | 14 |
| 30 | The importance of the 2S albumins for allergenicity and cross-reactivity of peanuts, tree nuts, and sesame seeds. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 147, 1154-1163 | 11.5 | 14 |
| 29 | Distinguishing allergens from non-allergenic homologues using Physical-Chemical Property (PCP) motifs. <i>Molecular Immunology</i> , 2018 , 99, 1-8 | 4.3 | 13 |
| 28 | IgE binding to linear epitopes of Ara h 2 in peanut allergic preschool children undergoing oral Immunotherapy. <i>Pediatric Allergy and Immunology</i> , 2019 , 30, 817-823 | 4.2 | 13 |
| 27 | Assessment of 3D models for allergen research. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 545-54 | 4.2 | 13 |
| 26 | Identification and analysis of conserved sequence motifs in cytochrome P450 family 2. Functional and structural role of a motif 187RFDYKD192 in CYP2B enzymes. <i>Journal of Biological Chemistry</i> , 2008 , 283, 21808-16 | 5.4 | 12 |
| 25 | Functional classification of protein toxins as a basis for bioinformatic screening. <i>Scientific Reports</i> , 2017 , 7, 13940 | 4.9 | 11 |
| 24 | A multimeric model for murine anti-apoptotic protein Bcl-2 and structural insights for its regulation by post-translational modification. <i>Journal of Molecular Modeling</i> , 2003 , 9, 298-303 | 2 | 11 |
| 23 | Co-localization of glyceraldehyde-3-phosphate dehydrogenase with ferredoxin-NADP reductase in pea leaf chloroplasts. <i>Journal of Structural Biology</i> , 2008 , 161, 18-30 | 3.4 | 9 |
| 22 | Conformational studies of cyclic peptide structures in solution from 1H-Nmr data by distance geometry calculation and restrained energy minimization. <i>Biopolymers</i> , 1990 , 29, 1387-400 | 2.2 | 9 |
| 21 | Cross-React: a new structural bioinformatics method for predicting allergen cross-reactivity. <i>Bioinformatics</i> , 2017 , 33, 1014-1020 | 7.2 | 8 |
| 20 | Engineering proteins with enhanced mechanical stability by force-specific sequence motifs. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 1308-15 | 4.2 | 8 |
| 19 | AllerML: markup language for allergens. <i>Regulatory Toxicology and Pharmacology</i> , 2011 , 60, 151-60 | 3.4 | 8 |
| 18 | Homology Modeling and Molecular Dynamics Simulations of PBCV-1 Glycosylase Complexed with UV-damaged DNA. <i>Journal of Molecular Modeling</i> , 1999 , 5, 302-316 | 2 | 8 |
| 17 | Novel neutralizing monoclonal antibodies protect rodents against lethal filovirus challenges. <i>Trials in Vaccinology</i> , 2014 , 3, 89-94 | | 7 |

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| 16 | Membrane interaction and functional plasticity of inositol polyphosphate 5-phosphatases. <i>Structure</i> , 2014 , 22, 664-6 | 5.2 | 7 |
| 15 | Clostridial toxins: sensing a target in a hostile gut environment. <i>Gut Microbes</i> , 2012 , 3, 35-41 | 8.8 | 6 |
| 14 | A Conserved Structural Signature of the Homeobox Coding DNA in HOX genes. <i>Scientific Reports</i> , 2016 , 6, 35415 | 4.9 | 6 |
| 13 | Antibody-Mediated Protective Mechanisms Induced by a Trivalent Parainfluenza Virus-Vectored Ebola Virus Vaccine. <i>Journal of Virology</i> , 2019 , 93, | 6.6 | 6 |
| 12 | Regional and temporal coordinated mutation patterns in SARS-CoV-2 spike protein revealed by a clustering and network analysis.. <i>Scientific Reports</i> , 2022 , 12, 1128 | 4.9 | 5 |
| 11 | Conformational flexibility of mammalian cytochrome P450 2B4 in binding imidazole inhibitors of different ring chemistry and side chains. <i>FASEB Journal</i> , 2006 , 20, A264 | 0.9 | 4 |
| 10 | Producing physicochemical property consensus alphavirus protein antigens for broad spectrum vaccine design. <i>Antiviral Research</i> , 2020 , 182, 104905 | 10.8 | 4 |
| 9 | Determining the three-dimensional fold of a protein from approximate constraints: a simulation study. <i>Cell Biochemistry and Biophysics</i> , 2001 , 34, 283-304 | 3.2 | 3 |
| 8 | DGraph Clusters Flaviviruses and β -Coronaviruses According to Their Hosts, Disease Type, and Human Cell Receptors. <i>Bioinformatics and Biology Insights</i> , 2021 , 15, 11779322211020316 | 5.3 | 3 |
| 7 | Synthetic proteins for COVID-19 diagnostics. <i>Peptides</i> , 2021 , 143, 170583 | 3.8 | 2 |
| 6 | D-graph clusters flaviviruses and β -coronaviruses according to their hosts, disease type and human cell receptors 2020 , | | 1 |
| 5 | Exact and efficient analytical calculation of the accessible surface areas and their gradients for macromolecules 1998 , 19, 319 | | 1 |
| 4 | Designing multivalent immunogens for alphavirus vaccine optimization. <i>Virology</i> , 2021 , 561, 117-124 | 3.6 | 0 |
| 3 | Developing computational tools for NMR: the early days of protein NMR. <i>Magnetic Resonance in Chemistry</i> , 2003 , 41, S51-S55 | 2.1 | |
| 2 | Design of peptides with high affinity binding to a monoclonal antibody as a basis for immunotherapy. <i>Peptides</i> , 2021 , 145, 170628 | 3.8 | |
| 1 | Still SDAPing Along: 20 Years of the Structural Database of Allergenic Proteins.. <i>Frontiers in Allergy</i> , 2022 , 3, 863172 | 0 | |