

# Werner Braun

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Regional and temporal coordinated mutation patterns in SARS-CoV-2 spike protein revealed by a clustering and network analysis.. <i>Scientific Reports</i> , <b>2022</b> , 12, 1128	4.9	5
104	Still SDAPing Along: 20 Years of the Structural Database of Allergenic Proteins.. <i>Frontiers in Allergy</i> , <b>2022</b> , 3, 863172	0	
103	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> , <b>2021</b> , 147, 1154-1163	11.5	14
102	Synthetic proteins for COVID-19 diagnostics. <i>Peptides</i> , <b>2021</b> , 143, 170583	3.8	2
101	Designing multivalent immunogens for alphavirus vaccine optimization. <i>Virology</i> , <b>2021</b> , 561, 117-124	3.6	0
100	Design of peptides with high affinity binding to a monoclonal antibody as a basis for immunotherapy. <i>Peptides</i> , <b>2021</b> , 145, 170628	3.8	
99	DGraph Clusters Flaviviruses and $\beta$ -Coronaviruses According to Their Hosts, Disease Type, and Human Cell Receptors. <i>Bioinformatics and Biology Insights</i> , <b>2021</b> , 15, 11779322211020316	5.3	3
98	D-graph clusters flaviviruses and $\beta$ -coronaviruses according to their hosts, disease type and human cell receptors <b>2020</b> ,		1
97	Producing physicochemical property consensus alphavirus protein antigens for broad spectrum vaccine design. <i>Antiviral Research</i> , <b>2020</b> , 182, 104905	10.8	4
96	IgE binding to linear epitopes of Ara h 2 in peanut allergic preschool children undergoing oral Immunotherapy. <i>Pediatric Allergy and Immunology</i> , <b>2019</b> , 30, 817-823	4.2	13
95	Antibody-Mediated Protective Mechanisms Induced by a Trivalent Parainfluenza Virus-Vectored EbolaVirus Vaccine. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	6
94	Distinguishing allergens from non-allergenic homologues using Physical-Chemical Property (PCP) motifs. <i>Molecular Immunology</i> , <b>2018</b> , 99, 1-8	4.3	13
93	Cross-React: a new structural bioinformatics method for predicting allergen cross-reactivity. <i>Bioinformatics</i> , <b>2017</b> , 33, 1014-1020	7.2	8
92	Functional classification of protein toxins as a basis for bioinformatic screening. <i>Scientific Reports</i> , <b>2017</b> , 7, 13940	4.9	11
91	Conformational IgE epitopes of peanut allergens Ara h 2 and Ara h 6. <i>Clinical and Experimental Allergy</i> , <b>2016</b> , 46, 1120-1128	4.1	30
90	A Conserved Structural Signature of the Homeobox Coding DNA in HOX genes. <i>Scientific Reports</i> , <b>2016</b> , 6, 35415	4.9	6
89	Novel neutralizing monoclonal antibodies protect rodents against lethal filovirus challenges. <i>Trials in Vaccinology</i> , <b>2014</b> , 3, 89-94		7

88	Membrane interaction and functional plasticity of inositol polyphosphate 5-phosphatases. <i>Structure</i> , <b>2014</b> , 22, 664-6	5.2	7
87	Assessment of 3D models for allergen research. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 545-54	4.2	13
86	Engineering proteins with enhanced mechanical stability by force-specific sequence motifs. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2012</b> , 80, 1308-15	4.2	8
85	Clostridial toxins: sensing a target in a hostile gut environment. <i>Gut Microbes</i> , <b>2012</b> , 3, 35-41	8.8	6
84	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> , <b>2012</b> , 157, 323-30	3.7	15
83	Base of the measles virus fusion trimer head receives the signal that triggers membrane fusion. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33026-35	5.4	34
82	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> , <b>2012</b> , 287, 38543-51	5.4	43
81	Host S-nitrosylation inhibits clostridial small molecule-activated glucosylating toxins. <i>Nature Medicine</i> , <b>2011</b> , 17, 1136-41	50.5	67
80	The heads of the measles virus attachment protein move to transmit the fusion-triggering signal. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 128-34	17.6	84
79	AllerML: markup language for allergens. <i>Regulatory Toxicology and Pharmacology</i> , <b>2011</b> , 60, 151-60	3.4	8
78	MD simulation and experimental evidence for Mg <sup>2+</sup> binding at the B site in human AP endonuclease 1. <i>Bioinformation</i> , <b>2011</b> , 7, 184-98	1.1	14
77	NMR solution structure of poliovirus uridylyated peptide linked to the genome (VPgpU). <i>Peptides</i> , <b>2010</b> , 31, 1441-8	3.8	14
76	An Allergen Portrait Gallery: Representative Structures and an Overview of IgE Binding Surfaces. <i>Bioinformatics and Biology Insights</i> , <b>2010</b> , 4, 113-25	5.3	16
75	Structural analysis of linear and conformational epitopes of allergens. <i>Regulatory Toxicology and Pharmacology</i> , <b>2009</b> , 54, S11-9	3.4	27
74	Mechanical stability and differentially conserved physical-chemical properties of titin Ig-domains. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 75, 706-18	4.2	19
73	Characteristic motifs for families of allergenic proteins. <i>Molecular Immunology</i> , <b>2009</b> , 46, 559-68	4.3	65
72	The property distance index PD predicts peptides that cross-react with IgE antibodies. <i>Molecular Immunology</i> , <b>2009</b> , 46, 873-83	4.3	42
71	Automated detection of conformational epitopes using phage display Peptide sequences. <i>Bioinformatics and Biology Insights</i> , <b>2009</b> , 3, 71-81	5.3	60

70	Co-localization of glyceraldehyde-3-phosphate dehydrogenase with ferredoxin-NADP reductase in pea leaf chloroplasts. <i>Journal of Structural Biology</i> , <b>2008</b> , 161, 18-30	3.4	9
69	Unusual role of a cysteine residue in substrate binding and activity of human AP-endonuclease 1. <i>Journal of Molecular Biology</i> , <b>2008</b> , 379, 28-37	6.5	31
68	Comprehensive 3D-modeling of allergenic proteins and amino acid composition of potential conformational IgE epitopes. <i>Molecular Immunology</i> , <b>2008</b> , 45, 3740-7	4.3	60
67	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> , <b>2008</b> , 283, 21808-16	5.4	12
66	Dynamic interaction of the measles virus hemagglutinin with its receptor signaling lymphocytic activation molecule (SLAM, CD150). <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 11763-71	5.4	57
65	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> , <b>2008</b> , 118, 2448-58	15.9	169
64	InterProSurf: a web server for predicting interacting sites on protein surfaces. <i>Bioinformatics</i> , <b>2007</b> , 23, 3397-9	7.2	126
63	Bioinformatics approaches to classifying allergens and predicting cross-reactivity. <i>Immunology and Allergy Clinics of North America</i> , <b>2007</b> , 27, 1-27	3.3	73
62	A "moving metal mechanism" for substrate cleavage by the DNA repair endonuclease APE-1. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 68, 313-23	4.2	51
61	Statistical analysis of physical-chemical properties and prediction of protein-protein interfaces. <i>Journal of Molecular Modeling</i> , <b>2007</b> , 13, 1157-67	2	32
60	Robust quantitative modeling of peptide binding affinities for MHC molecules using physical-chemical descriptors. <i>Protein and Peptide Letters</i> , <b>2007</b> , 14, 903-16	1.9	19
59	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> , <b>2006</b> , 281, 8051-61	5.4	64
58	Structural basis for epitope sharing between group 1 allergens of cedar pollen. <i>Molecular Immunology</i> , <b>2006</b> , 43, 509-18	4.3	29
57	NMR structure of the viral peptide linked to the genome (VPg) of poliovirus. <i>Peptides</i> , <b>2006</b> , 27, 1676-84	3.8	35
56	Determining functionally important amino acid residues of the E1 protein of Venezuelan equine encephalitis virus. <i>Journal of Molecular Modeling</i> , <b>2006</b> , 12, 921-9	2	20
55	Conformational flexibility of mammalian cytochrome P450 2B4 in binding imidazole inhibitors of different ring chemistry and side chains. <i>FASEB Journal</i> , <b>2006</b> , 20, A264	0.9	4
54	Common physical-chemical properties correlate with similar structure of the IgE epitopes of peanut allergens. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 8752-9	5.7	37
53	Molluscan attractins, a family of water-borne protein pheromones with interspecific attractiveness. <i>Peptides</i> , <b>2005</b> , 26, 121-9	3.8	29

52	Stereophysicochemical variability plots highlight conserved antigenic areas in Flaviviruses. <i>Virology Journal</i> , <b>2005</b> , 2, 40	6.1	16
51	Molego-based definition of the architecture and specificity of metal-binding sites. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 58, 200-10	4.2	26
50	Nearby clusters of hemagglutinin residues sustain SLAM-dependent canine distemper virus entry in peripheral blood mononuclear cells. <i>Journal of Virology</i> , <b>2005</b> , 79, 5857-62	6.6	58
49	Using property based sequence motifs and 3D modeling to determine structure and functional regions of proteins. <i>Current Medicinal Chemistry</i> , <b>2004</b> , 11, 583-93	4.3	43
48	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> , <b>2004</b> , 78, 302-13	6.6	164
47	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> , <b>2004</b> , 101, 6929-33	11.5	52
46	Effects of backbone contacts 3S to the abasic site on the cleavage and the product binding by human apurinic/aprimidinic endonuclease (APE1). <i>Biochemistry</i> , <b>2004</b> , 43, 684-9	3.2	26
45	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> , <b>2003</b> , 9, 298-303	2	11
44	Developing computational tools for NMR: the early days of protein NMR. <i>Magnetic Resonance in Chemistry</i> , <b>2003</b> , 41, S51-S55	2.1	
43	Detecting potential IgE-reactive sites on food proteins using a sequence and structure database, SDAP-Food. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 4830-7	5.7	49
42	Major linear IgE epitopes of mountain cedar pollen allergen Jun a 1 map to the pectate lyase catalytic site. <i>Molecular Immunology</i> , <b>2003</b> , 40, 555-62	4.3	41
41	SDAP: database and computational tools for allergenic proteins. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 359-62	20.1	188
40	Identifying property based sequence motifs in protein families and superfamilies: application to DNase-1 related endonucleases. <i>Bioinformatics</i> , <b>2003</b> , 19, 1381-90	7.2	35
39	Total sequence decomposition distinguishes functional modules, "molegos" in apurinic/aprimidinic endonucleases. <i>BMC Bioinformatics</i> , <b>2002</b> , 3, 37	3.6	18
38	Automated assignment and 3D structure calculations using combinations of 2D homonuclear and 3D heteronuclear NOESY spectra. <i>Journal of Biomolecular NMR</i> , <b>2002</b> , 22, 249-63	3	21
37	Membrane-protein interactions contribute to efficient 27-hydroxylation of cholesterol by mitochondrial cytochrome P450 27A1. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 37582-9	5.4	42
36	Data mining of sequences and 3D structures of allergenic proteins. <i>Bioinformatics</i> , <b>2002</b> , 18, 1358-64	7.2	73
35	New quantitative descriptors of amino acids based on multidimensional scaling of a large number of physical/chemical properties. <i>Journal of Molecular Modeling</i> , <b>2001</b> , 7, 445-453	2	136

34	Determining the three-dimensional fold of a protein from approximate constraints: a simulation study. <i>Cell Biochemistry and Biophysics</i> , <b>2001</b> , 34, 283-304	3.2	3
33	Homology modeling and simulations of nuclease structures. <i>Methods in Molecular Biology</i> , <b>2001</b> , 160, 263-86	1.4	15
32	Aplysia attractin: biophysical characterization and modeling of a water-borne pheromone. <i>Biophysical Journal</i> , <b>2001</b> , 81, 463-72	2.9	37
31	Homology modeling and characterization of IgE binding epitopes of mountain cedar allergen Jun a 3. <i>Biophysical Journal</i> , <b>2000</b> , 79, 1601-9	2.9	66
30	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> , <b>1999</b> , 8, 326-42	6.3	51
29	Homology Modeling and Molecular Dynamics Simulations of PBCV-1 Glycosylase Complexed with UV-damaged DNA. <i>Journal of Molecular Modeling</i> , <b>1999</b> , 5, 302-316	2	8
28	Exact and efficient analytical calculation of the accessible surface areas and their gradients for macromolecules. <i>Journal of Computational Chemistry</i> , <b>1998</b> , 19, 319-333	3.5	802
27	Exact and efficient analytical calculation of the accessible surface areas and their gradients for macromolecules <b>1998</b> , 19, 319		1
26	Exact and efficient analytical calculation of the accessible surface areas and their gradients for macromolecules <b>1998</b> , 19, 319		61
25	Mapping of the primary binding site of measles virus to its receptor CD46. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 22072-9	5.4	74
24	Automated combined assignment of NOESY spectra and three-dimensional protein structure determination. <i>Journal of Biomolecular NMR</i> , <b>1997</b> , 10, 351-62	3	128
23	A 3D model for the measles virus receptor CD46 based on homology modeling, Monte Carlo simulations, and hemagglutinin binding studies. <i>Protein Science</i> , <b>1997</b> , 6, 588-97	6.3	22
22	Three-dimensional structure and actions of immunosuppressants and their immunophilins. <i>FASEB Journal</i> , <b>1995</b> , 9, 63-72	0.9	79
21	Conformational polymorphism of cyclosporin A. <i>Structure</i> , <b>1994</b> , 2, 963-72	5.2	36
20	Surface area included in energy refinement of proteins. A comparative study on atomic solvation parameters. <i>Journal of Molecular Biology</i> , <b>1993</b> , 233, 275-92	6.5	48
19	Minimization of empirical energy functions in proteins including hydrophobic surface area effects. <i>Journal of Computational Chemistry</i> , <b>1993</b> , 14, 510-521	3.5	51
18	Extensive distance geometry calculations with different NOE calibrations: new criteria for structure selection applied to Sandostatin and BPTI. <i>Journal of Biomolecular NMR</i> , <b>1993</b> , 3, 307-24	3	44
17	Cyclosporin A-cyclophilin complex formation. A model based on X-ray and NMR data. <i>FEBS Letters</i> , <b>1992</b> , 300, 291-300	3.8	85

16	Efficient search for all low energy conformations of polypeptides by Monte Carlo methods. <i>Journal of Computational Chemistry</i> , <b>1991</b> , 12, 1065-1076	3.5	98
15	Complete relaxation matrix refinement of NMR structures of proteins using analytically calculated dihedral angle derivatives of NOE intensities. <i>Journal of Biomolecular NMR</i> , <b>1991</b> , 1, 257-69	3	37
14	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> , <b>1991</b> , 217, 517-30	6.5	864
13	The program FANTOM for energy refinement of polypeptides and proteins using a Newton-Raphson minimizer in torsion angle space. <i>Biopolymers</i> , <b>1990</b> , 29, 679-694	2.2	79
12	Conformational studies of cyclic peptide structures in solution from 1H-Nmr data by distance geometry calculation and restrained energy minimization. <i>Biopolymers</i> , <b>1990</b> , 29, 1387-400	2.2	9
11	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> , <b>1989</b> , 206, 677-87	6.5	148
10	1H 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> , <b>1988</b> , 172, 101-16		39
9	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> , <b>1988</b> , 204, 675-724	6.5	208
8	Three-dimensional structure of rabbit liver [Cd7]metallothionein-2a in aqueous solution determined by nuclear magnetic resonance. <i>Journal of Molecular Biology</i> , <b>1988</b> , 201, 637-57	6.5	275
7	Distance geometry and related methods for protein structure determination from NMR data. <i>Quarterly Reviews of Biophysics</i> , <b>1987</b> , 19, 115-57	7	181
6	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> , <b>1987</b> , 196, 611-39	6.5	596
5	Polypeptide fold in the two metal clusters of metallothionein-2 by nuclear magnetic resonance in solution. <i>Journal of Molecular Biology</i> , <b>1986</b> , 187, 125-9	6.5	133
4	Polypeptide secondary structure determination by nuclear magnetic resonance observation of short proton-proton distances. <i>Journal of Molecular Biology</i> , <b>1984</b> , 180, 715-40	6.5	658
3	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> , <b>1984</b> , 53, 3269-3275	1.5	26
2	Representation of short and long-range handedness in protein structures by signed distance maps. <i>Journal of Molecular Biology</i> , <b>1983</b> , 163, 613-21	6.5	23
1	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> , <b>1982</b> , 155, 311-9	6.5	488