Eric John Sundberg

List of Publications by Year
in descending order

100 papers	4,451 citations	71102 41 h-index	123424 61 g-index
108 all docs	108 docs citations	108 times ranked	6086 citing authors

#	Article	IF	Citations
1	Molecular recognition in antibody-antigen complexes. Advances in Protein Chemistry, 2002, 61, 119-160.	4.4	214
2	Structural Basis of IL-1 Family Cytokine Signaling. Frontiers in Immunology, 2019, 10, 1412.	4.8	194
3	Helicobacter pylori exploits human CEACAMs via HopQ for adherence and translocation of CagA. Nature Microbiology, 2017, 2, 16188.	13.3	134
4	Severe Acute Respiratory Syndrome Coronavirus ORF7a Inhibits Bone Marrow Stromal Antigen 2 Virion Tethering through a Novel Mechanism of Glycosylation Interference. Journal of Virology, 2015, 89, 11820-11833.	3.4	133
5	Structures of Two Streptococcal Superantigens Bound to TCR Î² Chains Reveal Diversity in the Architecture of T Cell Signaling Complexes. Structure, 2002, 10, 687-699.	3.3	116
6	Infection-derived lipids elicit an immune deficiency circuit in arthropods. Nature Communications, 2017, 8, 14401.	12.8	103
7	Estimation of the Hydrophobic Effect in an Antigenâ^'Antibody Proteinâ^'Protein Interfaceâ€,â€¡. Biochemistry, 2000, 39, 15375-15387.	2.5	99
8	A viral CTL escape mutation leading to immunoglobulin-like transcript 4â€“mediated functional inhibition of myelomonocytic cells. Journal of Experimental Medicine, 2007, 204, 2813-2824.	8.5	95
9	TCR recognition of peptide/MHC class II complexes and superantigens. Seminars in Immunology, 2007, 19, 262-271.	5.6	93
10	HLA-B*35-Pxâ€“mediated acceleration of HIV-1 infection by increased inhibitory immunoregulatory impulses. Journal of Experimental Medicine, 2009, 206, 2959-2966.	8.5	92
11	A structural model of flagellar filament switching across multiple bacterial species. Nature Communications, 2017, 8, 960.	12.8	90
12	HLA-DM captures partially empty HLA-DR molecules for catalyzed removal of peptide. Nature Immunology, 2011, 12, 54-61.	14.5	89
13	Neutralization of staphylococcal enterotoxin B by soluble, high-affinity receptor antagonists. Nature Medicine, 2007, 13, 725-729.	30.7	88
14	Type IV pili promote early biofilm formation byClostridium difficile. Pathogens and Disease, 2016, 74, ftw061.	2.0	86
15	A Novel Multivalent, Single-Domain Antibody Targeting TcdA and TcdB Prevents Fulminant Clostridium difficile Infection in Mice. Journal of Infectious Diseases, 2014, 210, 964-972.	4.0	84
16	So many ways of getting in the way: diversity in the molecular architecture of superantigen-dependent T-cell signaling complexes. Current Opinion in Immunology, 2002, 14, 36-44.	5.5	81
17	A highly tilted binding mode by a self-reactive T cell receptor results in altered engagement of peptide and MHC. Journal of Experimental Medicine, 2011, 208, 91-102.	8.5	77
18	Luxury accommodations: the expanding role of structural plasticity in proteinâ€“protein interactions. Structure, 2000, 8, R137-R142.	3.3	74

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19	Crystal Structure of Human Peptidoglycan Recognition Protein S (PGRP-S) at 1.70Ã... Resolution. Journal of Molecular Biology, 2005, 347, 683-691.	4.2	74
20	Hijacking antibody-induced CTLA-4 lysosomal degradation for safer and more effective cancer immunotherapy. Cell Research, 2019, 29, 609-627.	12.0	74
21	Morphology development for three-component emulsion polymers: Theory and experiments. Journal of Applied Polymer Science, 1993, 47, 1277-1294.	2.6	68
22	Crystal Structures of the Toll/Interleukin-1 Receptor (TIR) Domains from the Brucella Protein TcpB and Host Adaptor TIRAP Reveal Mechanisms of Molecular Mimicry. Journal of Biological Chemistry, 2014, 289, 669-679.	3.4	66
23	Molecular Determinants of Agonist and Antagonist Signaling through the IL-36 Receptor. Journal of Immunology, 2014, 193, 921-930.	0.8	65
24	Long-range cooperative binding effects in a T cell receptor variable domain. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9867-9872.	7.1	64
25	R753Q Polymorphism Inhibits Toll-like Receptor (TLR) 2 Tyrosine Phosphorylation, Dimerization with TLR6, and Recruitment of Myeloid Differentiation Primary Response Protein 88. Journal of Biological Chemistry, 2012, 287, 38327-38337.	3.4	63
26	Structural Diversity in the Type IV Pili of Multidrug-resistant Acinetobacter. Journal of Biological Chemistry, 2016, 291, 22924-22935.	3.4	60
27	Motility and adhesion through type IV pili in Gram-positive bacteria. Biochemical Society Transactions, 2016, 44, 1659-1666.	3.4	59
28	The structure of PilA from Acinetobacter baumannii AB5075 suggests a mechanism for functional specialization in Acinetobacter type IV pili. Journal of Biological Chemistry, 2019, 294, 218-230.	3.4	59
29	Effects of Cross-Linking on the Morphology of Structured Latex Particles. 2. Experimental Evidence for Lightly Cross-Linked Systems. Macromolecules, 1997, 30, 1028-1032.	4.8	58
30	A Decoy Peptide that Disrupts TIRAP Recruitment to TLRs Is Protective in a Murine Model of Influenza. Cell Reports, 2015, 11, 1941-1952.	6.4	58
31	Crystal structure ofStreptococcus pyogenesEndoS, an immunomodulatory endoglycosidase specific for human IgG antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6714-6719.	7.1	56
32	Structural basis of T-cell specificity and activation by the bacterial superantigen TSST-1. EMBO Journal, 2007, 26, 1187-1197.	7.8	54
33	Characterization of T Cell Receptors Engineered for High Affinity Against Toxic Shock Syndrome Toxin-1. Journal of Molecular Biology, 2005, 353, 308-321.	4.2	52
34	The Tick Salivary Protein Sialostatin L2 Inhibits Caspase-1-Mediated Inflammation during Anaplasma phagocytophilum Infection. Infection and Immunity, 2014, 82, 2553-2564.	2.2	51
35	Structure-Based Design of Hepatitis C Virus Vaccines That Elicit Neutralizing Antibody Responses to a Conserved Epitope. Journal of Virology, 2017, 91, .	3.4	50
36	IL-1 Family Cytokines Use Distinct Molecular Mechanisms to Signal through Their Shared Co-receptor. Immunity, 2017, 47, 510-523.e4.	14.3	48

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37	Recruitment of TLR adapter TRIF to TLR4 signaling complex is mediated by the second helical region of TRIF TIR domain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19036-19041.	7.1	47
38	The Tick Protein Sialostatin L2 Binds to Annexin A2 and Inhibits NLRC4-Mediated Inflammasome Activation. Infection and Immunity, 2016, 84, 1796-1805.	2.2	47
39	The Helicobacter pylori adhesin protein HopQ exploits the dimer interface of human CEACAMs to facilitate translocation of the oncoprotein CagA. EMBO Journal, 2018, 37, .	7.8	47
40	Bacterial flagellar capping proteins adopt diverse oligomeric states. ELife, 2016, 5, .	6.0	46
41	Structural Mechanism Governing Cis and Trans Isomeric States and an Intramolecular Switch for Cis/Trans Isomerization of a Non-proline Peptide Bond Observed in Crystal Structures of Scorpion Toxins. Journal of Molecular Biology, 2004, 341, 1189-1204.	4.2	45
42	Structural and Evolutionary Analyses Show Unique Stabilization Strategies in the Type IV Pili of Clostridium difficile. Structure, 2015, 23, 385-396.	3.3	45
43	Functional Analysis of the TCR Binding Domain of Toxic Shock Syndrome Toxin-1 Predicts Further Diversity in MHC Class II/Superantigen/TCR Ternary Complexes. Journal of Immunology, 2003, 171, 1385-1392.	0.8	44
44	Bacterial Flagellar Filament: A Supramolecular Multifunctional Nanostructure. International Journal of Molecular Sciences, 2021, 22, 7521.	4.1	43
45	A Novel Loop Domain in Superantigens Extends their T Cell Receptor Recognition Site. Journal of Molecular Biology, 2007, 371, 210-221.	4.2	41
46	Structural Basis of Affinity Maturation and Intramolecular Cooperativity in a Protein-Protein Interaction. Structure, 2005, 13, 1775-1787.	3.3	39
47	Structure of Clostridium difficile PilJ Exhibits Unprecedented Divergence from Known Type IV Pilins. Journal of Biological Chemistry, 2014, 289, 4334-4345.	3.4	39
48	Dissecting Cooperative and Additive Binding Energetics in the Affinity Maturation Pathway of a Protein-Protein Interface. Journal of Biological Chemistry, 2003, 278, 50412-50421.	3.4	38
49	Structural basis for the recognition of complex-type N-glycans by Endoglycosidase S. Nature Communications, 2018, 9, 1874.	12.8	38
50	Interactions between the Leucine-zipper Motif of cGMP-Dependent Protein Kinase and the C-terminal Region of the Targeting Subunit of Myosin Light Chain Phosphatase. Journal of Molecular Biology, 2007, 373, 1198-1212.	4.2	36
51	Synthesis and Biophysical Study of Disassembling Nanohybrid Bioconjugates with a Cubic Octasilsesquioxane Core. Advanced Functional Materials, 2012, 22, 3191-3201.	14.9	36
52	High resolution X-ray and NMR structural study of human T-cell immunoglobulin and mucin domain containing protein-3. Scientific Reports, 2018, 8, 17512.	3.3	35
53	Crystal Structure of the Streptococcal Superantigen SpeI and Functional Role of a Novel Loop Domain in T Cell Activation by Group V Superantigens. Journal of Molecular Biology, 2007, 367, 925-934.	4.2	34
54	The NEU1-selective sialidase inhibitor, C9-butyl-amide-DANA, blocks sialidase activity and NEU1-mediated bioactivities in human lung in vitro and murine lung in vivo. Glycobiology, 2016, 26, 834-849.	2.5	34

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55	Diverse oligomeric states of CEACAM IgV domains. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13561-13566.	7.1	33
56	Minor Structural Changes in a Mutated Human Melanoma Antigen Correspond to Dramatically Enhanced Stimulation of a CD4+ Tumor-infiltrating Lymphocyte Line. Journal of Molecular Biology, 2002, 319, 449-461.	4.2	32
57	Quantifying the Energetics of Cooperativity in a Ternary Protein Complexâ€. Biochemistry, 2002, 41, 5177-5184.	2.5	31
58	Structural, Energetic, and Functional Analysis of a Protein-Protein Interface at Distinct Stages of Affinity Maturation. Structure, 2003, 11, 1151-1161.	3.3	30
59	Exploration of the P6/P7 Region of the Peptide-binding Site of the Human Class II Major Histocompatability Complex Protein HLA-DR1. Journal of Biological Chemistry, 2003, 278, 44904-44912.	3.4	30
60	Dissecting Proteinâ^'Protein Interactions Using Directed Evolution. Biochemistry, 2011, 50, 2394-2402.	2.5	30
61	Structure and dynamics of an Î±-fucosidase reveal a mechanism for highly efficient IgG transfucosylation. Nature Communications, 2020, 11, 6204.	12.8	29
62	Structure and Dynamics of FosA-Mediated Fosfomycin Resistance in Klebsiella pneumoniae and Escherichia coli. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	28
63	Molecular Basis of Broad Spectrum N-Glycan Specificity and Processing of Therapeutic IgG Monoclonal Antibodies by Endoglycosidase S2. ACS Central Science, 2019, 5, 524-538.	11.3	27
64	Integrin Engagement by the Helical RGD Motif of the Helicobacter pylori CagL Protein Is Regulated by pH-induced Displacement of a Neighboring Helix. Journal of Biological Chemistry, 2015, 290, 12929-12940.	3.4	26
65	Gastric Subserous Vaccination With Helicobacter pylori Vaccine: An Attempt to Establish Tissue-Resident CD4+ Memory T Cells and Induce Prolonged Protection. Frontiers in Immunology, 2019, 10, 1115.	4.8	24
66	Structural insights into the mechanisms and specificities of IgG-active endoglycosidases. Glycobiology, 2020, 30, 268-279.	2.5	24
67	Cloning, expression and interaction of human Tâ€cell receptors with the bacterial superantigen SSA. FEBS Journal, 2004, 271, 4075-4083.	0.2	23
68	Structural basis of mammalian high-mannose N-glycan processing by human gut Bacteroides. Nature Communications, 2020, 11, 899.	12.8	22
69	Characterization of the Translocation-competent Complex between the Helicobacter pylori Oncogenic Protein CagA and the Accessory Protein CagF. Journal of Biological Chemistry, 2013, 288, 32897-32909.	3.4	21
70	Molecular Basis of TCR Selectivity, Cross-Reactivity, and Allelic Discrimination by a Bacterial Superantigen: Integrative Functional and Energetic Mapping of the SpeC-VÎ²2.1 Molecular Interface. Journal of Immunology, 2006, 177, 8595-8603.	0.8	20
71	Neutralization of Multiple Staphylococcal Superantigens by a Singleâ€Chain Protein Consisting of Affinityâ€Matured, Variable Domain Repeats. Journal of Infectious Diseases, 2008, 198, 344-348.	4.0	20
72	A Single, Engineered Protein Therapeutic Agent Neutralizes Exotoxins from BothStaphylococcus aureusandStreptococcus pyogenes. Vaccine Journal, 2010, 17, 1781-1789.	3.1	18

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73	Molecular Requirements for MHC Class II Î±-Chain Engagement and Allelic Discrimination by the Bacterial Superantigen Streptococcal Pyrogenic Exotoxin C. Journal of Immunology, 2008, 181, 3384-3392.	0.8	17
74	Assessing Energetic Contributions to Binding from a Disordered Region in a Proteinâ˜Protein Interaction,. Biochemistry, 2010, 49, 9256-9268.	2.5	17
75	The T Cell Receptor Î²-Chain Second Complementarity Determining Region Loop (CDR2Î²) Governs T Cell Activation and VÎ² Specificity by Bacterial Superantigens. Journal of Biological Chemistry, 2011, 286, 4871-4881.	3.4	17
76	Some of the most interesting <scp>CASP</scp>11 targets through the eyes of their authors. Proteins: Structure, Function and Bioinformatics, 2016, 84, 34-50.	2.6	16
77	Bacterial protein domains with a novel Igâ€like fold target human CEACAM receptors. EMBO Journal, 2021, 40, e106103.	7.8	16
78	Target highlights from the first postâ€PSI CASP experiment (CASP12, Mayâ€“August 2016). Proteins: Structure, Function and Bioinformatics, 2018, 86, 27-50.	2.6	11
79	Small-Molecule Inhibitor of FosA Expands Fosfomycin Activity to Multidrug-Resistant Gram-Negative Pathogens. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	11
80	Mechanism of cooperative N-glycan processing by the multi-modular endoglycosidase EndoE. Nature Communications, 2022, 13, 1137.	12.8	10
81	Structure of the N-terminal dimerization domain of CEACAM7. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1169-1175.	0.8	9
82	An Intrinsically Disordered Region in the Proapoptotic ASPP2 Protein Binds to the Helicobacter pylori Oncoprotein CagA. Biochemistry, 2015, 54, 3337-3347.	2.5	9
83	Roles of Adhesion to Epithelial Cells in Gastric Colonization by Helicobacter pylori. Advances in Experimental Medicine and Biology, 2019, 1149, 57-75.	1.6	9
84	Molecular Basis of Selective Cytokine Signaling Inhibition by Antibodies Targeting a Shared Receptor. Frontiers in Immunology, 2021, 12, 779100.	4.8	9
85	Direct CD137 costimulation of CD8 T cells promotes retention and innate-like function within nascent atherogenic foci. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1480-H1494.	3.2	8
86	Molecular Interactions in Interleukin and Toll-like Receptor Signaling Pathways. Current Pharmaceutical Design, 2014, 20, 1244-1258.	1.9	8
87	Molecular Basis of a Million-Fold Affinity Maturation Process in a Proteinâ€Protein Interaction. Journal of Molecular Biology, 2011, 411, 321-328.	4.2	7
88	Molecular Determinants of Filament Capping Proteins Required for the Formation of Functional Flagella in Gram-Negative Bacteria. Biomolecules, 2021, 11, 1397.	4.0	7
89	Sculpting therapeutic monoclonal antibody N-glycans using endoglycosidases. Current Opinion in Structural Biology, 2022, 72, 248-259.	5.7	7
90	Recombinant expression and purification of the N-terminal extracellular domain of the parathyroid hormone receptor. Protein Expression and Purification, 2007, 54, 87-93.	1.3	6

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91	Structural basis of the dynamic human CEACAM1 monomer-dimer equilibrium. Communications Biology, 2021, 4, 360.	4.4	6
92	GH18 endo-Î²-N-acetylglucosaminidases use distinct mechanisms to process hybrid-type N-linked glycans. Journal of Biological Chemistry, 2021, 297, 101011.	3.4	6
93	Surface Plasmon Resonance Biosensing in the Study of Ternary Systems of Interacting Proteins. , 2007, , 97-141.		6
94	Liquidâ€“liquid diffusion crystallization improves the X-ray diffraction of EndoS, an endo-Î²-N-acetylglucosaminidase fromStreptococcus pyogeneswith activity on human IgG. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1405-1410.	0.7	5
95	Insights into substrate recognition and specificity for IgG by Endoglycosidase S2. PLoS Computational Biology, 2021, 17, e1009103.	3.2	5
96	Molecular Recognition of Diverse Ligands by T-Cell Receptors. Methods in Molecular Biology, 2009, 524, 347-359.	0.9	3
97	With an antibody whose duty's double, a step towards ending asthma trouble?. Biochemical Journal, 2013, 451, e1-e3.	3.7	1
98	Getting oriented with antibodies. Biochemical Journal, 2017, 474, 517-519.	3.7	1
99	Molecular Recognition in the Immune System. , 2005, , 49-87.		0
100	Common Challenges in Studying the Structure and Function of Bacterial Proteins: Case Studies from Helicobacter pylori. Methods in Molecular Biology, 2017, 1535, 77-93.	0.9	0