Stephen V Evans

List of Publications by Year
in descending order

58 papers	3,367 citations	257450 24 h-index	161849 54 g-index
58 all docs	58 docs citations	58 times ranked	2867 citing authors

#	Article	IF	Citations
1	SETOR: Hardware-lighted three-dimensional solid model representations of macromolecules. Journal of Molecular Graphics, 1993, 11, 134-138.	1.1	1,265
2	High-resolution study of the three-dimensional structure of horse heart metmyoglobin. Journal of Molecular Biology, 1990, 213, 885-897.	4.2	276
3	The structural basis for specificity in human ABO(H) blood group biosynthesis. Nature Structural Biology, 2002, 9, 685-690.	9.7	219
4	Antibody recognition of carbohydrate epitopes. Glycobiology, 2015, 25, 920-952.	2.5	116
5	Germline antibody recognition of distinct carbohydrate epitopes. Nature Structural and Molecular Biology, 2003, 10, 1019-1025.	8.2	107
6	Use of chiral single crystals to convert achiral reactants to chiral products in high optical yield: application to the di-.pi.-methane and Norrish type II photorearrangements. Journal of the American Chemical Society, 1986, 108, 5648-5650.	13.7	91
7	A Single Point Mutation Reverses the Donor Specificity of Human Blood Group B-synthesizing Galactosyltransferase. Journal of Biological Chemistry, 2003, 278, 12403-12405.	3.4	88
8	Donor substrate specificity of recombinant human blood group A, B and hybrid A/B glycosyltransferases expressed in Escherichia coli. FEBS Journal, 2001, 259, 770-775.	0.2	81
9	ABO(H) Blood Group A and B Glycosyltransferases Recognize Substrate via Specific Conformational Changes. Journal of Biological Chemistry, 2008, 283, 10097-10108.	3.4	78
10	Antibody recognition of a unique tumor-specific glycopeptide antigen. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10056-10061.	7.1	77
11	Characterization of protein-glycolipid recognition at the membrane bilayer. , 1999, 12, 155-168.		69
12	Structural Basis for the Inactivity of Human Blood Group O2 Glycosyltransferase. Journal of Biological Chemistry, 2005, 280, 525-529.	3.4	53
13	Molecular Basis for Recognition of the Cancer Glycobiomarker, LacdiNAc (GalNAc[Î²1â†'4]GlcNAc), by Wisteria floribunda Agglutinin. Journal of Biological Chemistry, 2016, 291, 24085-24095.	3.4	49
14	Refinement of Recombinant Oncomodulin at 1Â·30 Ã… Resolution. Journal of Molecular Biology, 1993, 230, 1216-1224.	4.2	46
15	Platinum(II) complexes of ferrocenylphosphines as hydrosilylation catalysts. Crystal structure of		

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19	Antibody WN1 222-5 mimics Toll-like receptor 4 binding in the recognition of LPS. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20877-20882.	7.1	34
20	Exploration of Specificity in Germline Monoclonal Antibody Recognition of a Range of Natural and Synthetic Epitopes. Journal of Molecular Biology, 2008, 377, 450-468.	4.2	32
21	Structure of an Anti-blood Group A Fv and Improvement of Its Binding Affinity without Loss of Specificity. Journal of Biological Chemistry, 2002, 277, 2059-2064.	3.4	30
22	The Influence of an Intramolecular Hydrogen Bond in Differential Recognition of Inhibitory Acceptor Analogs by Human ABO(H) Blood Group A and B Glycosyltransferases. Journal of Biological Chemistry, 2003, 278, 49191-49195.	3.4	29
23	Structural basis for red cell phenotypic changes in newly identified, naturally occurring subgroup mutants of the human blood group B glycosyltransferase. Transfusion, 2007, 47, 864-875.	1.6	28
24	Analysis of cross-reactive and specific anti-carbohydrate antibodies against lipopolysaccharide from Chlamydophila psittaci. Glycobiology, 2010, 20, 461-472.	2.5	28
25	Glycosyltransferase Structure and Function. , 2006, , 217-257.		27
26	Structural basis of cell wall anchoring by SLH domains in Paenibacillus alvei. Nature Communications, 2018, 9, 3120.	12.8	27
27	Geometric Attributes of Retaining Glycosyltransferase Enzymes Favor an Orthogonal Mechanism. PLoS ONE, 2013, 8, e71077.	2.5	27
28	A Common NH53K Mutation in the Combining Site of Antibodies Raised against Chlamydial LPS Glycoconjugates Significantly Increases Avidity. Biochemistry, 2011, 50, 3357-3368.	2.5	25
29	Antibodies Raised Against Chlamydial Lipopolysaccharide Antigens Reveal Convergence in Germline Gene Usage and Differential Epitope Recognition. Biochemistry, 2010, 49, 570-581.	2.5	23
30	Structural insights into parallel strategies for germline antibody recognition of lipopolysaccharide from Chlamydia. Glycobiology, 2011, 21, 1049-1059.	2.5	20
31	Structural basis for selective cross-reactivity in a bactericidal antibody against inner core lipooligosaccharide from Neisseria meningitidisâ€‚â€¡. Glycobiology, 2014, 24, 442-449.	2.5	20
32	Structural Effects of Naturally Occurring Human Blood Group B Galactosyltransferase Mutations Adjacent to the DXD Motif. Journal of Biological Chemistry, 2007, 282, 9564-9570.	3.4	19
33	High Resolution Structures of the Human ABO(H) Blood Group Enzymes in Complex with Donor Analogs Reveal That the Enzymes Utilize Multiple Donor Conformations to Bind Substrates in a Stepwise Manner. Journal of Biological Chemistry, 2015, 290, 27040-27052.	3.4	18
34	The role of CDR H3 in antibody recognition of a synthetic analog of a lipopolysaccharide antigen. Glycobiology, 2010, 20, 138-147.	2.5	16
35	Groove-type Recognition of Chlamydiaceae-specific Lipopolysaccharide Antigen by a Family of Antibodies Possessing an Unusual Variable Heavy Chain N-Linked Glycan. Journal of Biological Chemistry, 2014, 289, 16644-16661.	3.4	15
36	Antibody recognition of a conformational epitope in a peptide antigen: Fv-peptide complex of an antibody fragment specific for the mutant EGF receptor, EGFRvIII. Journal of Molecular Biology, 2001, 308, 883-893.	4.2	14

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37	Bifunctional fusion proteins consisting of a single-chain antibody and an engineered lanthanide-binding protein. Immunotechnology: an International Journal of Immunological Engineering, 1995, 1, 139-150.	2.4	12
38	The effect of heavy atoms on the conformation of the active-site polypeptide loop in human ABO(H) blood-group glycosyltransferase B. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 860-865.	2.5	12
39	Cysteine-to-Serine Mutants Dramatically Reorder the Active Site of Human ABO(H) Blood Group B Glycosyltransferase without Affecting Activity: Structural Insights into Cooperative Substrate Binding. Journal of Molecular Biology, 2010, 402, 399-411.	4.2	11
40	Structural Basis for Antibody Recognition of Lipid A. Journal of Biological Chemistry, 2015, 290, 19629-19640.	3.4	11
41	Antibody Recognition of Chlamydia LPS: Structural Insights of Inherited Immune Responses. , 2012, , 75-120.		11
42	Sequence-dependent effects of cryoprotectants on the active sites of the human ABO(H) blood group A and B glycosyltransferases. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 268-276.	2.5	10
43	The antigen-binding site of an N-propionylated polysialic acid-specific antibody protective against group B meningococci is consistent with extended epitopesâ€. Glycobiology, 2013, 23, 946-954.	2.5	10
44	Glycosyltransferases A and B: Four Critical Amino Acids Determine Blood Type. Journal of Chemical Education, 2005, 82, 1846.	2.3	9
45	Conserved residues Arg188 and Asp302 are critical for active site organization and catalysis in human ABO(H) blood group A and B glycosyltransferasesâ€. Glycobiology, 2018, 28, 624-636.	2.5	9
46	Production, crystallization and diffraction to atomic resolution of an antibody Fv specific for the blood-group A oligosaccharide antigen. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 1456-1459.	2.5	8
47	The Combining Sites of Anti-lipid A Antibodies Reveal a Widely Utilized Motif Specific for Negatively Charged Groups. Journal of Biological Chemistry, 2016, 291, 10104-10118.	3.4	8
48	Single-chain antibody-fragment M6P-1 possesses a mannose 6-phosphate monosaccharide-specific binding pocket that distinguishes<i>N</i>-glycan phosphorylation in a branch-specific manner. Glycobiology, 2016, 26, 181-192.	2.5	8
49	Exploring the cross-reactivity of S25-2: complex with a 5,6-dehydro-Kdo disaccharide. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 2-5.	0.7	7
50	The S-layer homology domains of Paenibacillus alvei surface protein SpaA bind to cell wall polysaccharide through the terminal monosaccharide residue. Journal of Biological Chemistry, 2022, 298, 101745.	3.4	7
51	Crystallization and preliminary X-ray diffraction analysis of two homologous antigen-binding fragments in complex with different carbohydrate antigens. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1872-1876.	2.5	6
52	pH-induced conformational changes in human ABO(H) blood group glycosyltransferases confirm the importance of electrostatic interactions in the formation of the semi-closed state. Glycobiology, 2014, 24, 237-246.	2.5	5
53	Glycosyltransfer in mutants of putative catalytic residue Glu303 of the human ABO(H) A and B blood group glycosyltransferases GTA and GTB proceeds through a labile active site. Glycobiology, 2017, 27, 370-380.	2.5	5
54	Antigen binding by conformational selection in near-germline antibodies. Journal of Biological Chemistry, 2022, 298, 101901.	3.4	5

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55	Polyspecificity of Anti-lipid A Antibodies and Its Relevance to the Development of Autoimmunity. Advances in Experimental Medicine and Biology, 2017, 966, 181-202.	1.6	4
56	High-resolution crystal structures and STD NMR mapping of human ABO(H) blood group glycosyltransferases in complex with trisaccharide reaction products suggest a molecular basis for product release. Glycobiology, 2017, 27, 966-977.	2.5	3
57	Subtle Changes in the Combining Site of the Chlamydiaceae-Specific mAb S25-23 Increase the Antibodyâ€“Carbohydrate Binding Affinity by an Order of Magnitude. Biochemistry, 2019, 58, 714-726.	2.5	2
58	Monoclonal antibody 7H2.2 binds the C-terminus of the cancer-oocyte antigen SAS1B through the hydrophilic face of a conserved amphipathic helix corresponding to one of only two regions predicted to be ordered. Acta Crystallographica Section D: Structural Biology, 2022, 78, 623-632.	2.3	0