

Chi-Huey Wong

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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.

435
papers

33,366
citations

99
h-index

168
g-index

455
ext. papers

35,753
ext. citations

10.7
avg, IF

7.14
L-index

#	Paper	IF	Citations
435	Broad neutralization coverage of HIV by multiple highly potent antibodies. <i>Nature</i> , 2011 , 477, 466-70	50.4	1164
434	Printed covalent glycan array for ligand profiling of diverse glycan binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17033-8	11.5	949
433	Enzymes for chemical synthesis. <i>Nature</i> , 2001 , 409, 232-40	50.4	743
432	The Catalytic Asymmetric Aldol Reaction. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 1352-1375	56.4	714
431	Programmable One-Pot Oligosaccharide Synthesis. <i>Journal of the American Chemical Society</i> , 1999 , 121, 734-753	16.4	697
430	A potent and broad neutralizing antibody recognizes and penetrates the HIV glycan shield. <i>Science</i> , 2011 , 334, 1097-103	33.3	576
429	Natural killer T cells recognize diacylglycerol antigens from pathogenic bacteria. <i>Nature Immunology</i> , 2006 , 7, 978-86	19.1	521
428	Synthesis of sugar arrays in microtiter plate. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14397-402	46.2	442
427	Carbohydrate Mimetics: A New Strategy for Tackling the Problem of Carbohydrate-Mediated Biological Recognition. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2300-2324	16.4	442
426	Synthesis of complex carbohydrates and glycoconjugates: enzyme-based and programmable one-pot strategies. <i>Chemical Reviews</i> , 2000 , 100, 4465-94	68.1	424
425	Toward automated synthesis of oligosaccharides and glycoproteins. <i>Science</i> , 2001 , 291, 2344-50	33.3	421
424	Selectinminus signCarbohydrate Interactions: From Natural Ligands to Designed Mimics. <i>Chemical Reviews</i> , 1998 , 98, 833-862	68.1	411
423	A potent and highly selective inhibitor of human alpha-1,3-fucosyltransferase via click chemistry. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9588-9	16.4	402
422	Recent Advances in the Chemoenzymatic Synthesis of Carbohydrates and Carbohydrate Mimetics. <i>Chemical Reviews</i> , 1996 , 96, 443-474	68.1	382
421	Enzymes as Catalysts in Synthetic Organic Chemistry [New Synthetic Methods (53)]. <i>Angewandte Chemie International Edition in English</i> , 1985 , 24, 617-638		371
420	Small molecules targeting severe acute respiratory syndrome human coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10012-7	11.5	368
419	Glycoproteomic probes for fluorescent imaging of fucosylated glycans in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12371-6	11.5	363

418	HIV-1 protease: mechanism and drug discovery. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 5-14	3.9	339
417	Metal catalyzed diazo transfer for the synthesis of azides from amines. <i>Tetrahedron Letters</i> , 1996 , 37, 6029-6032	2	303
416	Trimeric HIV-1-Env Structures Define Glycan Shields from Clades A, B, and G. <i>Cell</i> , 2016 , 165, 813-26	56.2	301
415	Broadly neutralizing HIV antibodies define a glycan-dependent epitope on the prefusion conformation of gp41 on cleaved envelope trimers. <i>Immunity</i> , 2014 , 40, 657-68	32.3	286
414	Sulfatases: structure, mechanism, biological activity, inhibition, and synthetic utility. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5736-63	16.4	280
413	Alkynyl sugar analogs for the labeling and visualization of glycoconjugates in cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2614-9	11.5	273
412	Sialylation and fucosylation of epidermal growth factor receptor suppress its dimerization and activation in lung cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11332-7	11.5	270
411	Dissection of the carbohydrate specificity of the broadly neutralizing anti-HIV-1 antibody 2G12. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13372-7	11.5	270
410	Targeting the carbohydrates on HIV-1: Interaction of oligomannose dendrons with human monoclonal antibody 2G12 and DC-SIGN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3690-5	11.5	253
409	Observation of covalent intermediates in an enzyme mechanism at atomic resolution. <i>Science</i> , 2001 , 294, 369-74	33.3	251
408	1,2,3-triazole as a peptide surrogate in the rapid synthesis of HIV-1 protease inhibitors. <i>ChemBioChem</i> , 2005 , 6, 1167-9	3.8	247
407	Glycans on influenza hemagglutinin affect receptor binding and immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18137-42	11.5	240
406	Enzymes in Organic Synthesis: Application to the Problems of Carbohydrate Recognition (Part 2). <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 521-546		240
405	Enzymes in Organic Synthesis: Application to the Problems of Carbohydrate Recognition (Part 1). <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 412-432		232
404	The chemistry of amine-azide interconversion: catalytic diazotransfer and regioselective azide reduction. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10773-8	16.4	231
403	Quantitative analysis of carbohydrate-protein interactions using glycan microarrays: determination of surface and solution dissociation constants. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11177-84	16.4	228
402	Sulfotransferases: structure, mechanism, biological activity, inhibition, and synthetic utility. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3526-48	16.4	227
401	Toward automated oligosaccharide synthesis. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11872-82	16.23	215

400	Solid-Phase Chemical-Enzymic Synthesis of Glycopeptides and Oligosaccharides. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1135-1136	16.4	215
399	Enzymes in the synthesis of glycoconjugates. <i>Chemical Reviews</i> , 2011 , 111, 4259-307	68.1	210
398	Design and Synthesis of New Aminoglycoside Antibiotics Containing Neamine as an Optimal Core Structure: Correlation of Antibiotic Activity with in Vitro Inhibition of Translation. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6527-6541	16.4	206
397	Expression of 5-lipoxygenase and leukotriene A4 hydrolase in human atherosclerotic lesions correlates with symptoms of plaque instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8161-6	11.5	204
396	Bacterial glycolipids and analogs as antigens for CD1d-restricted NKT cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 1351-6	11.5	203
395	Chemical selection for catalysis in combinatorial antibody libraries. <i>Science</i> , 1997 , 275, 945-8	33.3	197
394	Advances in chemical ligation strategies for the synthesis of glycopeptides and glycoproteins. <i>Chemical Communications</i> , 2010 , 46, 21-43	5.8	196
393	Recent Advances in Aldolase-Catalyzed Asymmetric Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 1308-1320	5.6	196
392	Carbohydrate microarray for profiling the antibodies interacting with Globo H tumor antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 15-20	11.5	195
391	A copper(I)-catalyzed 1,2,3-triazole azide-alkyne click compound is a potent inhibitor of a multidrug-resistant HIV-1 protease variant. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6263-70	8.3	193
390	Structure of the haemagglutinin-esterase-fusion glycoprotein of influenza C virus. <i>Nature</i> , 1998 , 396, 92-6	50.4	189
389	Direct observation of aminoglycoside-RNA interactions by surface plasmon resonance. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3641-8	16.4	186
388	The core trisaccharide of an N-linked glycoprotein intrinsically accelerates folding and enhances stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3131-6	11.5	181
387	Structural basis for CD1d presentation of a sulfatide derived from myelin and its implications for autoimmunity. <i>Journal of Experimental Medicine</i> , 2005 , 202, 1517-26	16.6	170
386	Fucosyltransferase 8 as a functional regulator of nonsmall cell lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 630-5	11.5	169
385	Covalent display of oligosaccharide arrays in microtiter plates. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8640-1	16.4	169
384	O-GlcNAcylation regulates EZH2 protein stability and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1355-60	11.5	157
383	Crystal structure of the membrane-bound bifunctional transglycosylase PBP1b from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8824-9	11.5	155

- 382 Protein glycosylation: new challenges and opportunities. *Journal of Organic Chemistry*, **2005**, 70, 4219-254.2 151
- 381 Unprecedented Asymmetric Aldol Reactions with Three Aldehyde Substrates Catalyzed by 2-Deoxyribose-5-phosphate Aldolase. *Journal of the American Chemical Society*, **1994**, 116, 8422-8423 16.4 150
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- 370 Electrophilic Fluorination-Nucleophilic Addition Reaction Mediated by Selectfluor: Mechanistic Studies and New Applications. *Journal of Organic Chemistry*, **1999**, 64, 5264-5279 4.2 137
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- 368 Development of Globo-H cancer vaccine. *Accounts of Chemical Research*, **2015**, 48, 643-52 24.3 133
- 367 A nanostructure-initiator mass spectrometry-based enzyme activity assay. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3678-83 11.5 132
- 366 Glycan microarray of Globo H and related structures for quantitative analysis of breast cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11661-6 11.5 131
- 365 A New Method for the Synthesis of Fluoro-Carbohydrates and Glycosides Using Selectfluor. *Journal of the American Chemical Society*, **1997**, 119, 11743-11746 16.4 129

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- 363 Enzymatic/Chemical Synthesis and Biological Evaluation of Seven-Membered Iminocyclitols. *Journal of the American Chemical Society*, **1996**, 118, 7647-7652 16.4 129
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- 359 Sugar-assisted glycopeptide ligation. *Journal of the American Chemical Society*, **2006**, 128, 5626-7 16.4 123
- 358 Carbohydrate-based vaccines with a glycolipid adjuvant for breast cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2517-22 11.5 122
- 357 A Library Approach to the Discovery of Small Molecules That Recognize RNA: Use of a 1,3-Hydroxyamine Motif as Core. *Journal of the American Chemical Society*, **1998**, 120, 8319-8327 16.4 122
- 356 Reactivity-based one-pot total synthesis of fucose GM1 oligosaccharide: a sialylated antigenic epitope of small-cell lung cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 797-802 11.5 122
- 355 Assembly of Oligosaccharide Libraries with a Designed Building Block and an Efficient Orthogonal Protection/Deprotection Strategy. *Journal of the American Chemical Society*, **1998**, 120, 7137-7138 16.4 122
- 354 D-Fructose-6-phosphate aldolase-catalyzed one-pot synthesis of iminocyclitols. *Journal of the American Chemical Society*, **2007**, 129, 14811-7 16.4 121
- 353 Synthesis of the Globo H Hexasaccharide Using the Programmable Reactivity-Based One-Pot Strategy This research was supported by the National Institutes of Health. F.B. thanks the Deutsche Forschungsgemeinschaft for a fellowship.. *Angewandte Chemie - International Edition*, **2001**, 40, 1274-1277 16.4 121
- 352 Rapid diversity-oriented synthesis in microtiter plates for in situ screening of HIV protease inhibitors. *ChemBioChem*, **2003**, 4, 1246-8 3.8 119
- 351 Mechanism of human alpha-1,3-fucosyltransferase V: glycosidic cleavage occurs prior to nucleophilic attack. *Biochemistry*, **1997**, 36, 823-31 3.2 117
- 350 Mechanism and specificity of human alpha-1,3-fucosyltransferase V. *Biochemistry*, **1996**, 35, 11183-95 3.2 116
- 349 Sugar-assisted ligation in glycoprotein synthesis. *Journal of the American Chemical Society*, **2007**, 129, 7690-701 16.4 114
- 348 Chemoenzymatic Solution- and Solid-Phase Synthesis of O-Glycopeptides of the Mucin Domain of MAdCAM-1. A General Route to O-LacNAc, O-Sialyl-LacNAc, and O-Sialyl-Lewis-X Peptides. *Journal of the American Chemical Society*, **1997**, 119, 8766-8776 16.4 112
- 347 Reactivity-based one-pot synthesis of oligomannoses: defining antigens recognized by 2G12, a broadly neutralizing anti-HIV-1 antibody. *Angewandte Chemie - International Edition*, **2004**, 43, 1000-3 16.4 111

346	A method for the generation of glycoprotein mimetics. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1702-3	16.4	111
345	New methods for proteomic research: preparation of proteins with N-terminal cysteines for labeling and conjugation. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2171-4	16.4	109
344	The Thioglycoside and Glycosyl Phosphite of 5-Azido Sialic Acid: Excellent Donors for the Glycosylation of Primary Hydroxy Groups. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2900-2903	16.4	109
343	Defining criteria for oligomannose immunogens for HIV using icosahedral virus capsid scaffolds. <i>Chemistry and Biology</i> , 2010 , 17, 357-70		108
342	Chemoenzymatic Preparation of Novel Cyclic Imine Sugars and Rapid Biological Activity Evaluation Using Electrospray Mass Spectrometry and Kinetic Analysis. <i>Journal of the American Chemical Society</i> , 1997 , 119, 8146-8151	16.4	108
341	Chemoenzymatic synthesis of oligosaccharides and glycoproteins. <i>Trends in Biochemical Sciences</i> , 2004 , 29, 656-63	10.3	108
340	Chemo-enzymatic synthesis of fluorinated sugar nucleotide: useful mechanistic probes for glycosyltransferases. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 1937-46	3.4	106
339	Structure-based mutagenesis approaches toward expanding the substrate specificity of D-2-deoxyribose-5-phosphate aldolase. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 43-52	3.4	103
338	Enzyme in der organischen Synthese. <i>Angewandte Chemie</i> , 1985 , 97, 617-638	3.6	102
337	Recombinant 2-Deoxyribose-5-phosphate Aldolase in Organic Synthesis: Use of Sequential Two-Substrate and Three-Substrate Aldol Reactions. <i>Journal of the American Chemical Society</i> , 1995 , 117, 3333-3339	16.4	101
336	A glycoconjugate antigen based on the recognition motif of a broadly neutralizing human immunodeficiency virus antibody, 2G12, is immunogenic but elicits antibodies unable to bind to the self glycans of gp120. <i>Journal of Virology</i> , 2008 , 82, 6359-68	6.6	99
335	Rapid diversity-oriented synthesis in microtiter plates for in situ screening: discovery of potent and selective alpha-fucosidase inhibitors. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4661-4	16.4	97
334	Carbohydrate-Based Antibiotics: A New Approach to Tackling the Problem of Resistance. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 3508-3533	16.4	97
333	Stable benzotriazole esters as mechanism-based inactivators of the severe acute respiratory syndrome 3CL protease. <i>Chemistry and Biology</i> , 2006 , 13, 261-8		96
332	Extracellular sulfatases support cartilage homeostasis by regulating BMP and FGF signaling pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10202-7	11.5	95
331	Mimics of Complex Carbohydrates Recognized by Receptors. <i>Accounts of Chemical Research</i> , 1999 , 32, 376-385	24.3	93
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329	Novel five-membered iminocyclitol derivatives as selective and potent glycosidase inhibitors: new structures for antivirals and osteoarthritis. <i>ChemBioChem</i> , 2006 , 7, 165-73	3.8	92

328	Cysteine-free peptide and glycopeptide ligation by direct aminolysis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4411-5	16.4	88
327	Understanding the Chemistry and Biology of Glycosylation with Glycan Synthesis. <i>Annual Review of Biochemistry</i> , 2016 , 85, 599-630	29.1	88
326	Inhibition of the severe acute respiratory syndrome 3CL protease by peptidomimetic alpha,beta-unsaturated esters. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 5240-52	3.4	87
325	Solution- and Solid-Phase Synthesis of Inhibitors of H. pylori Attachment and E-Selectin-Mediated Leukocyte Adhesion. <i>Journal of the American Chemical Society</i> , 1994 , 116, 11315-11322	16.4	87
324	Solid-phase synthesis of peptide and glycopeptide thioesters through side-chain-anchoring strategies. <i>Chemistry - A European Journal</i> , 2008 , 14, 3620-9	4.8	86
323	Conserved and heterogeneous lipid antigen specificities of CD1d-restricted NKT cell receptors. <i>Journal of Immunology</i> , 2006 , 176, 3625-34	5.3	84
322	Sugar-assisted ligation of N-linked glycopeptides with broad sequence tolerance at the ligation junction. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15026-33	16.4	84
321	High-throughput identification of fucosyltransferase inhibitors using carbohydrate microarrays. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 3185-8	2.9	84
320	Reactivity-based one-pot synthesis of a Lewis Y carbohydrate hapten: a colon-rectal cancer antigen determinant. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4087-90	16.4	83
319	Glycosylation by D-glucosamine-derived donors: synthesis of heparosan and heparin analogues that interact with mycobacterial heparin-binding hemagglutinin. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8988-95	16.4	82
318	Extended sugar-assisted glycopeptide ligations: development, scope, and applications. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13527-36	16.4	82
317	Saccharide display on microtiter plates. <i>Chemistry and Biology</i> , 2002 , 9, 713-20		81
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314	High-throughput identification of compounds targeting influenza RNA-dependent RNA polymerase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19151-5	11.5	80
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