

Benjamin G Davis

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.

274 papers	17,376 citations	73 h-index	121 g-index
329 ext. papers	19,139 ext. citations	11.6 avg, IF	6.97 L-index

#	Paper	IF	Citations
274	Probing Site-Selective Conjugation Chemistries for the Construction of Homogeneous Synthetic Glycodendriproteins.. <i>ChemBioChem</i> , 2022 , e202200020	3.8	0
273	Reductive site-selective atypical γ -type/N2-C2 cleavage allows C-terminal protein amidation.. <i>Science Advances</i> , 2022 , 8, eabl8675	14.3	0
272	Post-translational insertion of boron in proteins to probe and modulate function. <i>Nature Chemical Biology</i> , 2021 , 17, 1245-1261	11.7	4
271	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. <i>Cell</i> , 2021 , 184, 2680-2695.e26	56.2	6
270	Residue-Selective Protein C-Formylation via Sequential Difluoroalkylation-Hydrolysis. <i>ACS Central Science</i> , 2021 , 7, 145-155	16.8	4
269	Observation of the Unbiased Conformers of Putative DNA-Scaffold Ribosugars. <i>ACS Central Science</i> , 2020 , 6, 293-303	16.8	8
268	F-Trifluoromethanesulfinate Enables Direct C-H F-Trifluoromethylation of Native Aromatic Residues in Peptides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1180-1185	16.4	28
267	Light-driven post-translational installation of reactive protein side chains. <i>Nature</i> , 2020 , 585, 530-537	50.4	40
266	Probing the limits of Q-tag bioconjugation of antibodies. <i>Chemical Communications</i> , 2019 , 55, 11342-11348	15.8	9
265	Concepts of Catalysis in Site-Selective Protein Modifications. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8005-8013	16.4	48
264	In vivo behaviour of glyco-NaI@SWCNT nanobottles. <i>Inorganica Chimica Acta</i> , 2019 , 495, 118933	2.7	8
263	Extracellular vesicle integrins act as a nexus for platelet adhesion in cerebral microvessels. <i>Scientific Reports</i> , 2019 , 9, 15847	4.9	6
262	A Brief Manifesto for Chemical Ingenuity and Insight in the Heart of Biology: A Time is Right for Sophistication not Simplification?. <i>Israel Journal of Chemistry</i> , 2019 , 59, 60-63	3.4	0
261	Synthetic post-translational modification of histones. <i>Current Opinion in Chemical Biology</i> , 2018 , 45, 35-43	17.7	37
260	F-Trifluoromethylation of Unmodified Peptides with 5-F-(Trifluoromethyl)dibenzothiophenium Trifluoromethanesulfonate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1572-1575	16.4	61
259	Selective Radical Trifluoromethylation of Native Residues in Proteins. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1568-1571	16.4	68
258	Studying glycobiology at the single-molecule level. <i>Nature Reviews Chemistry</i> , 2018 , 2, 148-159	34.6	20

257	Synthesis of modified proteins via functionalization of dehydroalanine. <i>Current Opinion in Chemical Biology</i> , 2018 , 46, 71-81	9.7	60
256	Functional and informatics analysis enables glycosyltransferase activity prediction. <i>Nature Chemical Biology</i> , 2018 , 14, 1109-1117	11.7	41
255	Palladium-mediated enzyme activation suggests multiphase initiation of glycogenesis. <i>Nature</i> , 2018 , 563, 235-240	50.4	31
254	Genetic Incorporation of Olefin Cross-Metathesis Reaction Tags for Protein Modification. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14599-14603	16.4	30
253	Structures of DPAGT1 Explain Glycosylation Disease Mechanisms and Advance TB Antibiotic Design. <i>Cell</i> , 2018 , 175, 1045-1058.e16	56.2	32
252	Post-translational site-selective protein backbone deuteration. <i>Nature Chemical Biology</i> , 2018 , 14, 955-963	16.7	17
251	Analysis of the Tunicamycin Biosynthetic Gene Cluster of <i>Streptomyces chartreusis</i> Reveals New Insights into Tunicamycin Production and Immunity. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	10
250	Covalent assembly of nanoparticles as a peptidase-degradable platform for molecular MRI. <i>Nature Communications</i> , 2017 , 8, 14254	17.4	36
249	A front-face 'Si synthase' engineered from a retaining 'double-S2' hydrolase. <i>Nature Chemical Biology</i> , 2017 , 13, 874-881	11.7	17
248	Monitoring the Disassembly of Virus-like Particles by F-NMR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5277-5280	16.4	14
247	Post-translational mutagenesis for installation of natural and unnatural amino acid side chains into recombinant proteins. <i>Nature Protocols</i> , 2017 , 12, 2243-2250	18.8	19
246	Precise Probing of Residue Roles by Post-Translational H ₂ C,N Aza-Michael Mutagenesis in Enzyme Active Sites. <i>ACS Central Science</i> , 2017 , 3, 1168-1173	16.8	20
245	Strategies in the Design and Use of Synthetic "Internal Glycan" Vaccines. <i>Methods in Enzymology</i> , 2017 , 597, 335-357	1.7	
244	Proteins as templates for complex synthetic metallocusters: towards biologically programmed heterogeneous catalysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160078	2.4	6
243	SUGAR-PROTEIN HYBRIDS FOR BIOMEDICAL APPLICATIONS 2016 , 509-534		
242	Carbon nanotubes allow capture of krypton, barium and lead for multichannel biological X-ray fluorescence imaging. <i>Nature Communications</i> , 2016 , 7, 13118	17.4	23
241	From Chemical Mutagenesis to Post-Expression Mutagenesis: A 50 Year Odyssey. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5896-903	16.4	27
240	Selective Metal-Site-Guided Arylation of Proteins. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8678-81	16.4	68

239	Grand Challenges in Chemistry for 2016 and Beyond. <i>ACS Central Science</i> , 2016 , 2, 1-3	16.8	8
238	Ready display of antigenic peptides in a protein 'mimogen'. <i>Chemical Communications</i> , 2016 , 52, 3014-7	5.8	9
237	An antibacterial vaccination strategy based on a glycoconjugate containing the core lipopolysaccharide tetrasaccharide Hep2Kdo2. <i>Nature Chemistry</i> , 2016 , 8, 242-9	17.6	41
236	Our Invisible College. <i>ACS Central Science</i> , 2016 , 2, 55-6	16.8	
235	Synthetic Nucleosomes Reveal that GlcNAcylation Modulates Direct Interaction with the FACT Complex. <i>Angewandte Chemie</i> , 2016 , 128, 9064-9068	3.6	4
234	Synthetic Nucleosomes Reveal that GlcNAcylation Modulates Direct Interaction with the FACT Complex. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8918-22	16.4	29
233	Optimal Synthetic Glycosylation of a Therapeutic Antibody. <i>Angewandte Chemie</i> , 2016 , 128, 2407-2413	3.6	8
232	Von der chemischen Mutagenese zur Postexpressions-Mutagenese: eine 50 Jahre wärende Odyssee. <i>Angewandte Chemie</i> , 2016 , 128, 5994-6002	3.6	3
231	Optimal Synthetic Glycosylation of a Therapeutic Antibody. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2361-7	16.4	92
230	Chemical intervention in plant sugar signalling increases yield and resilience. <i>Nature</i> , 2016 , 540, 574-578	50.4	105
229	Furanosic forms of sugars: conformational equilibrium of methyl α -D-ribofuranoside. <i>Chemical Communications</i> , 2016 , 52, 6241-4	5.8	15
228	Can Carbon Nanotubes Deliver on Their Promise in Biology? Harnessing Unique Properties for Unparalleled Applications. <i>ACS Central Science</i> , 2016 , 2, 190-200	16.8	71
227	Chemical polyglycosylation and nanolitre detection enables single-molecule recapitulation of bacterial sugar export. <i>Nature Chemistry</i> , 2016 , 8, 461-9	17.6	25
226	An autonomous molecular assembler for programmable chemical synthesis. <i>Nature Chemistry</i> , 2016 , 8, 542-8	17.6	103
225	Posttranslational mutagenesis: A chemical strategy for exploring protein side-chain diversity. <i>Science</i> , 2016 , 354,	33.3	182
224	A Triply Divergent Reagent for Glycoprotein Synthesis. <i>Israel Journal of Chemistry</i> , 2015 , 55, 387-391	3.4	2
223	Glycosyldiselenides as lectin ligands detectable by NMR in biofluids. <i>Chemical Communications</i> , 2015 , 51, 12208-11	5.8	13
222	NMR-Based Metabolomics Separates the Distinct Stages of Disease in a Chronic Relapsing Model of Multiple Sclerosis. <i>Journal of NeuroImmune Pharmacology</i> , 2015 , 10, 435-44	6.9	12

221	Vignette: Extending the Application of Metathesis in Chemical Biology □The Development of Site-Selective Peptide and Protein Modifications 2015 , 295-309		3
220	Generation of a synthetic GlcNAcylated nucleosome reveals regulation of stability by H2A-Thr101 GlcNAcylation. <i>Nature Communications</i> , 2015 , 6, 7978	17.4	40
219	Designing logical codon reassignment - Expanding the chemistry in biology. <i>Chemical Science</i> , 2015 , 6, 50-69	9.4	300
218	Chain-growth polyglycosylation: synthesis of linker-equipped mannosyl oligomers. <i>Carbohydrate Research</i> , 2015 , 403, 135-41	2.9	9
217	Refocussing Antibody Responses by Chemical Modification of Vaccine Antigens. <i>AIDS Research and Human Retroviruses</i> , 2014 , 30, A66-A67	1.6	
216	Dissecting the reaction of Phase II metabolites of ibuprofen and other NSAIDS with human plasma protein. <i>Chemical Science</i> , 2014 , 5, 3789-3794	9.4	14
215	Modification of fulleropyrazolines modulates their cleavage by light. <i>Chemical Communications</i> , 2014 , 50, 12297-9	5.8	2
214	The three Mycobacterium tuberculosis antigen 85 isoforms have unique substrates and activities determined by non-active site regions. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25041-53	5.4	44
213	Synthetic phosphorylation of p38 β recapitulates protein kinase activity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1698-701	16.4	40
212	Selective chemical protein modification. <i>Nature Communications</i> , 2014 , 5, 4740	17.4	632
211	Rationally designed short polyisoprenol-linked PglB substrates for engineered polypeptide and protein N-glycosylation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 566-9	16.4	30
210	Most human proteins made in both nucleus and cytoplasm turn over within minutes. <i>PLoS ONE</i> , 2014 , 9, e99346	3.7	22
209	Creation of a gated antibody as a conditionally functional synthetic protein. <i>Nature Communications</i> , 2014 , 5, 4388	17.4	15
208	A type 2 biomarker separates relapsing-remitting from secondary progressive multiple sclerosis. <i>Neurology</i> , 2014 , 83, 1492-9	6.5	60
207	Glycomimetic affinity-enrichment proteomics identifies partners for a clinically-utilized iminosugar. <i>Chemical Science</i> , 2013 , 4, 3442-3446	9.4	7
206	DNA modification under mild conditions by Suzuki-Miyaura cross-coupling for the generation of functional probes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10553-8	16.4	98
205	Rapid cross-metathesis for reversible protein modifications via chemical access to Se-allyl-selenocysteine in proteins. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12156-9	16.4	90
204	Single-molecule interrogation of a bacterial sugar transporter allows the discovery of an extracellular inhibitor. <i>Nature Chemistry</i> , 2013 , 5, 651-9	17.6	33

203	Enhanced aqueous Suzuki-Miyaura coupling allows site-specific polypeptide 18F-labeling. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13612-5	16.4	85
202	Free fructose is conformationally locked. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2845-52	16.4	66
201	Inhibition of SnRK1 by metabolites: tissue-dependent effects and cooperative inhibition by glucose 1-phosphate in combination with trehalose 6-phosphate. <i>Plant Physiology and Biochemistry</i> , 2013 , 63, 89-98	5.4	101
200	Self-liganded Suzuki-Miyaura coupling for site-selective protein PEGylation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3916-21	16.4	90
199	Rewriting the bacterial glycocalyx via Suzuki-Miyaura cross-coupling. <i>Chemical Communications</i> , 2013 , 49, 2747-9	5.8	57
198	Hydride Reductions and 1,2-Additions of Nucleophiles to Carbonyl Compounds Using Carbohydrate-Based Reagents and Additives 2013 , 125-142		
197	QuaNCAT: quantitating proteome dynamics in primary cells. <i>Nature Methods</i> , 2013 , 10, 343-6	21.6	117
196	'Multicopy multivalent' glycopolymer-stabilized gold nanoparticles as potential synthetic cancer vaccines. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9362-5	16.4	174
195	Realizing the Promise of Chemical Glycobiology. <i>Chemical Science</i> , 2013 , 4, 3381-3394	9.4	77
194	'Naked' and hydrated conformers of the conserved core pentasaccharide of N-linked glycoproteins and its building blocks. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16895-903	16.4	29
193	Control of phosphoryl migratory transesterifications allows regioselective access to sugar phosphates. <i>Organic Letters</i> , 2013 , 15, 346-9	6.2	15
192	DNA Modification under Mild Conditions by Suzuki-Miyaura Cross-Coupling for the Generation of Functional Probes. <i>Angewandte Chemie</i> , 2013 , 125, 10747-10752	3.6	26
191	Self-Liganded Suzuki-Miyaura Coupling for Site-Selective Protein PEGylation. <i>Angewandte Chemie</i> , 2013 , 125, 4008-4013	3.6	28
190	CHAPTER 5:Synthetic Protein Biologics. <i>RSC Drug Discovery Series</i> , 2013 , 130-144	0.6	4
189	Conversion of cysteine into dehydroalanine enables access to synthetic histones bearing diverse post-translational modifications. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1835-9	16.4	146
188	Selenenylsulfide-linked homogeneous glycopeptides and glycoproteins: synthesis of human "hepatic Se metabolite A". <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1432-6	16.4	49
187	Virus-like glycodendrinanoparticles displaying quasi-equivalent nested polyvalency upon glycoprotein platforms potently block viral infection. <i>Nature Communications</i> , 2012 , 3, 1303	17.4	105
186	Conformational effects in sugar ions: spectroscopic investigations in the gas phase and in solution. <i>Chemical Science</i> , 2012 , 3, 2307	9.4	17

185	Biosynthesis of the tunicamycin antibiotics proceeds via unique exo-glycal intermediates. <i>Nature Chemistry</i> , 2012 , 4, 539-46	17.6	64
184	Phosphine-free Suzuki-Miyaura cross-coupling in aqueous media enables access to 2-C-aryl-glycosides. <i>Organic Letters</i> , 2012 , 14, 1728-31	6.2	51
183	An endoglycosidase with alternative glycan specificity allows broadened glycoprotein remodelling. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8030-3	16.4	105
182	Conversion of Cysteine into Dehydroalanine Enables Access to Synthetic Histones Bearing Diverse Post-Translational Modifications. <i>Angewandte Chemie</i> , 2012 , 124, 1871-1875	3.6	41
181	Selenenylsulfide-Linked Homogeneous Glycopeptides and Glycoproteins: Synthesis of Human Hepatic Se Metabolite A□ <i>Angewandte Chemie</i> , 2012 , 124, 1461-1465	3.6	14
180	Creation of an □mannosynthase from a Broad Glycosidase Scaffold. <i>Angewandte Chemie</i> , 2012 , 124, 7567-7571	3.6	6
179	Creation of an □mannosynthase from a broad glycosidase scaffold. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7449-53	16.4	15
178	Palladium-mediated cell-surface labeling. <i>Journal of the American Chemical Society</i> , 2012 , 134, 800-3	16.4	195
177	Methods for converting cysteine to dehydroalanine on peptides and proteins. <i>Chemical Science</i> , 2011 , 2, 1666	9.4	241
176	Direct radiolabelling of proteins at cysteine using [18F]-fluorosugars. <i>Chemical Communications</i> , 2011 , 47, 10010-2	5.8	33
175	ESI-MS assay of M. tuberculosis cell wall antigen 85 enzymes permits substrate profiling and design of a mechanism-based inhibitor. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13232-5	16.4	27
174	A "tag-and-modify" approach to site-selective protein modification. <i>Accounts of Chemical Research</i> , 2011 , 44, 730-41	24.3	287
173	Tuning the cavity of cyclodextrins: altered sugar adaptors in protein pores. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1987-2001	16.4	37
172	Uptake of unnatural trehalose analogs as a reporter for Mycobacterium tuberculosis. <i>Nature Chemical Biology</i> , 2011 , 7, 228-35	11.7	155
171	Sensing the anomeric effect in a solvent-free environment. <i>Nature</i> , 2011 , 469, 76-9	50.4	130
170	Mechanistic evidence for a front-side, S _N i-type reaction in a retaining glycosyltransferase. <i>Nature Chemical Biology</i> , 2011 , 7, 631-8	11.7	117
169	A Coordinated Synthesis and Conjugation Strategy for the Preparation of Homogeneous Glycoconjugate Vaccine Candidates. <i>Angewandte Chemie</i> , 2011 , 123, 4213-4218	3.6	11
168	Synthetic Polymers for Simultaneous Bacterial Sequestration and Quorum Sense Interference. <i>Angewandte Chemie</i> , 2011 , 123, 10026-10030	3.6	5

167	A coordinated synthesis and conjugation strategy for the preparation of homogeneous glycoconjugate vaccine candidates. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4127-32	16.4	64
166	Synthetic polymers for simultaneous bacterial sequestration and quorum sense interference. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9852-6	16.4	30
165	Site-selective traceless Staudinger ligation for glycoprotein synthesis reveals scope and limitations. <i>ChemBioChem</i> , 2011 , 12, 1383-6	3.8	30
164	Chemical modification in the creation of novel biocatalysts. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 211-9	9.7	88
163	Palladium-mediated site-selective Suzuki-Miyaura protein modification at genetically encoded aryl halides. <i>Chemical Communications</i> , 2011 , 47, 1698-700	5.8	104
162	High throughput discovery of heteroaromatic-modifying enzymes allows enhancement of novobiocin selectivity. <i>Chemical Communications</i> , 2011 , 47, 10569-71	5.8	7
161	Multi-molecule reaction of serum albumin can occur through thiol-yne coupling. <i>Chemical Communications</i> , 2011 , 47, 11086-8	5.8	92
160	Carbohydrate hydration: heavy water complexes of α - and β -anomers of glucose, galactose, fucose and xylose. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 18671-8	3.6	26
159	Heavy water hydration of mannose: the anomeric effect in solvation, laid bare. <i>Chemical Science</i> , 2011 , 2, 1128	9.4	21
158	Isotopic hydration of cellobiose: vibrational spectroscopy and dynamical simulations. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 9498-509	2.8	25
157	Exploring carbohydrate-peptide interactions in the gas phase: structure and selectivity in complexes of pyranosides with N-acetylphenylalanine methylamide. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4548-57	16.4	32
156	Surface plasmon resonance imaging of glycoarrays identifies novel and unnatural carbohydrate-based ligands for potential ricin sensor development. <i>Chemical Science</i> , 2011 , 2, 1952	9.4	37
155	Substrate and metal ion promiscuity in mannosylglycerate synthase. <i>Journal of Biological Chemistry</i> , 2011 , 286, 15155-64	5.4	28
154	Recent Biotechnological Applications of Glyco-Nanomaterials. <i>ACS Symposium Series</i> , 2011 , 1-13	0.4	1
153	Molecular MRI approaches to the detection of CNS inflammation. <i>Methods in Molecular Biology</i> , 2011 , 711, 379-96	1.4	5
152	Approaches to Building Chemical Cells/Chells: Examples of Relevant Mechanistic Couples. <i>Chemical Reviews</i> , 2011 , 153-170	1.4	5
151	Filled and glycosylated carbon nanotubes for in vivo radioemitter localization and imaging. <i>Nature Materials</i> , 2010 , 9, 485-90	27	238
150	The allylic chalcogen effect in olefin metathesis. <i>Beilstein Journal of Organic Chemistry</i> , 2010 , 6, 1219-28	2.5	73

149	A nonself sugar mimic of the HIV glycan shield shows enhanced antigenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17107-12	11.5	85
148	Synthesis and solution-phase conformation of the RG-I fragment of the plant polysaccharide pectin reveals a modification-modulated assembly mechanism. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7238-9	16.4	24
147	Inverted regioselectivity of C-H amination: Unexpected oxidation at beta- rather than gamma-C-H. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 4246-8	3.9	16
146	Olefin cross-metathesis on proteins: investigation of allylic chalcogen effects and guiding principles in metathesis partner selection. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16805-11	16.4	146
145	Analysis of the dispersity in carbohydrate loading of synthetic glycoproteins using MALDI-TOF mass spectrometry. <i>Chemical Communications</i> , 2010 , 46, 9119-21	5.8	17
144	Site-selective chemoenzymatic construction of synthetic glycoproteins using endoglycosidases. <i>Chemical Science</i> , 2010 , 1, 709	9.4	59
143	Dissecting tunicamycin biosynthesis by genome mining: cloning and heterologous expression of a minimal gene cluster. <i>Chemical Science</i> , 2010 , 1, 581	9.4	45
142	Lectin-directed enzyme activated prodrug therapy (LEAPT): Synthesis and evaluation of rhamnose-capped prodrugs. <i>Journal of Drug Targeting</i> , 2010 , 18, 794-802	5.4	21
141	Fluoroglycoproteins: ready chemical site-selective incorporation of fluorosugars into proteins. <i>Chemical Communications</i> , 2010 , 46, 8142-4	5.8	47
140	Chemical Protein Modification 2010 , 59-91		10
139	Controlled polymer synthesis--from biomimicry towards synthetic biology. <i>Chemical Society Reviews</i> , 2010 , 39, 286-300	58.5	62
138	Flow chemistry kinetic studies reveal reaction conditions for ready access to unsymmetrical trehalose analogues. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 4232-5	3.9	17
137	Synthesis and characterization of WS2 inorganic nanotubes with encapsulated/intercalated Csl. <i>Nano Research</i> , 2010 , 3, 170-173	10	11
136	Mechanistic insight into enzymatic glycosyl transfer with retention of configuration through analysis of glycomimetic inhibitors. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1234-7	16.4	69
135	Group epitope mapping considering relaxation of the ligand (GEM-CRL): including longitudinal relaxation rates in the analysis of saturation transfer difference (STD) experiments. <i>Journal of Magnetic Resonance</i> , 2010 , 203, 1-10	3	44
134	Chemical mutagenesis: selective post-expression interconversion of protein amino acid residues. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 781-9	9.7	41
133	Safe and Scalable Preparation of Barluenga's Reagent 2010 , 288-298		9
132	Sugars and proteins: New strategies in synthetic biology. <i>Pure and Applied Chemistry</i> , 2009 , 81, 285-298	2.1	36

131	Glyconanoparticles allow pre-symptomatic in vivo imaging of brain disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18-23	11.5	435
130	Hydration of sugars in the gas phase: regioselectivity and conformational choice in N-acetyl glucosamine and glucose. <i>Chemistry - A European Journal</i> , 2009 , 15, 13427-34	4.8	37
129	Olefin metathesis for site-selective protein modification. <i>ChemBioChem</i> , 2009 , 10, 959-69	3.8	135
128	Potent fluoro-oligosaccharide probes of adhesion in Toxoplasmosis. <i>ChemBioChem</i> , 2009 , 10, 2522-9	3.8	59
127	Core-shell PbI ₂ @WS ₂ inorganic nanotubes from capillary wetting. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1230-3	16.4	48
126	High-purity discrete PEG-oligomer crystals allow structural insight. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1248-52	16.4	112
125	The linear assembly of a pure glycoenzyme. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4674-8	16.4	8
124	Thiyl glycosylation of olefinic proteins: S-linked glycoconjugate synthesis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7798-802	16.4	174
123	Polymer backbone conformation--a challenging task for database information retrieval. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9596-8	16.4	5
122	Detailed insights from microarray and crystallographic studies into carbohydrate recognition by microneme protein 1 (MIC1) of <i>Toxoplasma gondii</i> . <i>Protein Science</i> , 2009 , 18, 1935-47	6.3	34
121	Sugar synthesis in a protocellular model leads to a cell signalling response in bacteria. <i>Nature Chemistry</i> , 2009 , 1, 377-83	17.6	148
120	Conformational change and selectivity in explicitly hydrated carbohydrates. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 718-722		29
119	A silver-lined anniversary of Fleet iminosugars: 1984-2009, from DIM to DRAM to LABNAc. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 652-671		74
118	Carbohydrate- π -aromatic interactions: A computational and IR spectroscopic investigation of the complex, methyl β -fucopyranoside-toluene, isolated in the gas phase. <i>Chemical Physics Letters</i> , 2009 , 471, 17-21	2.5	48
117	Site-selective chemical protein glycosylation protects from autolysis and proteolytic degradation. <i>Carbohydrate Research</i> , 2009 , 344, 1508-14	2.9	40
116	Chemical modification of proteins at cysteine: opportunities in chemistry and biology. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 630-40	4.5	438
115	The building blocks of cellulose: the intrinsic conformational structures of cellobiose, its epimer, lactose, and their singly hydrated complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11117-23	16.4	103
114	Photoinduced, family-specific, site-selective cleavage of TIM-barrel proteins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12518-9	16.4	8

113	Peptide secondary structures in the gas phase: consensus motif of N-linked glycoproteins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1282-7	16.4	27
112	A convenient catalyst for aqueous and protein Suzuki-Miyaura cross-coupling. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16346-7	16.4	266
111	Glycoprotein synthesis: an update. <i>Chemical Reviews</i> , 2009 , 109, 131-63	68.1	505
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