Barbara Imperiali

List of Publications by Year
in descending order

208 papers	12,422 citations	16437 64 h-index	31818 101 g-index
277 all docs	277 docs citations	277 times ranked	10346 citing authors

#	Article	IF	Citations
1	Effect of N-linked glycosylation on glycopeptide and glycoprotein structure. Current Opinion in Chemical Biology, 1999, 3, 643-649.	2.8	367
2	Exploiting Polypeptide Motifs for the Design of Selective Cu(II) Ion Chemosensors. Journal of the American Chemical Society, 1998, 120, 609-610.	6.6	315
3	Protein oligomerization: How and why. Bioorganic and Medicinal Chemistry, 2005, 13, 5013-5020.	1.4	308
4	Asparagine-linked protein glycosylation: from eukaryotic to prokaryotic systems. Glycobiology, 2006, 16, 91R-101R.	1.3	300
5	Monitoring protein interactions and dynamics with solvatochromic fluorophores. Trends in Biotechnology, 2010, 28, 73-83.	4.9	260
6	Inhibition of serine proteases by peptidyl fluoromethyl ketones. Biochemistry, 1986, 25, 3760-3767.	1.2	252
7	Fluorescent Chemosensors for Divalent Zinc Based on Zinc Finger Domains. Enhanced Oxidative Stability, Metal Binding Affinity, and Structural and Functional Characterization. Journal of the American Chemical Society, 1997, 119, 3443-3450.	6.6	218
8	Stereoselective aldol condensation. Use of chiral boron enolates. Journal of the American Chemical Society, 1981, 103, 1566-1568.	6.6	213
9	A Versatile Amino Acid Analogue of the Solvatochromic Fluorophore 4-N,N-Dimethylamino-1,8-naphthalimide: A Powerful Tool for the Study of Dynamic Protein Interactions. Journal of the American Chemical Society, 2008, 130, 13630-13638.	6.6	212
10	Derivatives of 8-Hydroxy-2-methylquinoline Are Powerful Prototypes for Zinc Sensors in Biological Systems. Journal of the American Chemical Society, 2001, 123, 5160-5161.	6.6	203
11	A multiplexed homogeneous fluorescence-based assay for protein kinase activity in cell lysates. Nature Methods, 2005, 2, 277-284.	9.0	202
12	Modular and Tunable Chemosensor Scaffold for Divalent Zinc. Journal of the American Chemical Society, 2003, 125, 10591-10597.	6.6	198
13	Design and Evaluation of a Peptidyl Fluorescent Chemosensor for Divalent Zinc. Journal of the American Chemical Society, 1996, 118, 3053-3054.	6.6	194
14	Versatile Fluorescence Probes of Protein Kinase Activity. Journal of the American Chemical Society, 2003, 125, 14248-14249.	6.6	193
15	Protein Alignment by a Coexpressed Lanthanide-Binding Tag for the Measurement of Residual Dipolar Couplings. Journal of the American Chemical Society, 2003, 125, 13338-13339.	6.6	193
16	The Expanding Horizons of Asparagine-Linked Glycosylation. Biochemistry, 2011, 50, 4411-4426.	1.2	191
17	Modulation of protein structure and function by asparagine-linked glycosylation. Chemistry and Biology, 1996, 3, 803-812.	6.2	182
18	Lanthanide-Binding Tags as Versatile Protein Coexpression Probes. ChemBioChem, 2003, 4, 265-271.	1.3	158

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19	Structural Origin of the High Affinity of a Chemically Evolved Lanthanide-Binding Peptide. Angewandte Chemie - International Edition, 2004, 43, 3682-3685.	7.2	158
20	A Powerful Combinatorial Screen to Identify High-Affinity Terbium(III)-Binding Peptides. ChemBioChem, 2003, 4, 272-276.	1.3	144
21	Double-Lanthanide-Binding Tags:â€‰ Design, Photophysical Properties, and NMR Applications. Journal of the American Chemical Society, 2007, 129, 7106-7113.	6.6	142
22	Engineering Encodable Lanthanide-Binding Tags into Loop Regions of Proteins. Journal of the American Chemical Society, 2011, 133, 808-819.	6.6	132
23	Chemical approaches for investigating phosphorylation in signal transduction networks. Trends in Cell Biology, 2005, 15, 502-510.	3.6	128
24	Effects of Glycosylation on Peptide Conformation:Â A Synergistic Experimental and Computational Study. Journal of the American Chemical Society, 2004, 126, 8421-8425.	6.6	124
25	Lanthanide-Binding Tags as Luminescent Probes for Studying Protein Interactions. Journal of the American Chemical Society, 2006, 128, 7346-7352.	6.6	124
26	In vitro assembly of the undecaprenylpyrophosphate-linked heptasaccharide for prokaryotic N-linked glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14255-14259.	3.3	123
27	From Peptide to Protein:â€‰ Comparative Analysis of the Substrate Specificity of N-Linked Glycosylation in C. jejuni. Biochemistry, 2007, 46, 5579-5585.	1.2	113
28	At the membrane frontier: A prospectus on the remarkable evolutionary conservation of polyprenols and polyprenyl-phosphates. Archives of Biochemistry and Biophysics, 2012, 517, 83-97.	1.4	113
29	Substrate assistance in the mechanism of family 18 chitinases: theoretical studies of potential intermediates and inhibitors 1 1Edited by B. Honig. Journal of Molecular Biology, 1998, 280, 913-923.	2.0	110
30	Lanthanide-tagged proteinsâ€”an illuminating partnership. Current Opinion in Chemical Biology, 2010, 14, 247-254.	2.8	110
31	Direct Biochemical Evidence for the Utilization of UDP-bacillosamine by PglC, an Essential Glycosyl-1-phosphate Transferase in theCampylobacter jejuniN-Linked Glycosylation Pathwayâ€. Biochemistry, 2006, 45, 5343-5350.	1.2	104
32	A molecular basis for glycosylation-induced conformational switching. Chemistry and Biology, 1998, 5, 427-437.	6.2	103
33	Biomimetic divalent ligands for the acute disruption of synaptic AMPAR stabilization. Nature Chemical Biology, 2011, 7, 81-91.	3.9	103
34	Oligosaccharyl transferase: gatekeeper to the secretory pathway. Current Opinion in Chemical Biology, 2002, 6, 844-850.	2.8	102
35	Asparagine-linked glycosylation: Specificity and function of oligosaccharyl transferase. Bioorganic and Medicinal Chemistry, 1995, 3, 1565-1578.	1.4	101
36	In Vitro Biosynthesis of UDP-N,Nâ€˜-Diacetylbacillosamine by Enzymes of the Campylobacter jejuni General Protein Glycosylation System. Biochemistry, 2006, 45, 13659-13669.	1.2	100

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37	Structure determination of a Galectinâ€3â€“carbohydrate complex using paramagnetismâ€based NMR constraints. Protein Science, 2008, 17, 1220-1231.	3.1	96
38	Recognition-Domain Focused Chemosensors: Versatile and Efficient Reporters of Protein Kinase Activity. Journal of the American Chemical Society, 2008, 130, 12821-12827.	6.6	96
39	New Synthetic Amino Acids for the Design and Synthesis of Peptide-Based Metal Ion Sensors. Journal of Organic Chemistry, 1996, 61, 8940-8948.	1.7	95
40	Metallopeptide Design:â€‰ Tuning the Metal Cation Affinities with Unnatural Amino Acids and Peptide Secondary Structure. Journal of the American Chemical Society, 1996, 118, 11349-11356.	6.6	92
41	Chemoenzymic synthesis of 2-amino-3-(2,2'-bipyridinyl)propanoic acids. Journal of Organic Chemistry, 1993, 58, 1613-1616.	1.7	90
42	Chemoenzymatic Synthesis of Glycopeptides with PglB, a Bacterial Oligosaccharyl Transferase from Campylobacter jejuni. Chemistry and Biology, 2005, 12, 1311-1316.	6.2	89
43	Caged phosphopeptides reveal a temporal role for 14-3-3 in G1 arrest and S-phase checkpoint function. Nature Biotechnology, 2004, 22, 993-1000.	9.4	88
44	A new environment-sensitive fluorescent amino acid for Fmoc-based solid phase peptide synthesis. Organic and Biomolecular Chemistry, 2004, 2, 1965-1966.	1.5	88
45	Covalent Modification of Synthetic Hydrogels with Bioactive Proteins via Sortase-Mediated Ligation. Biomacromolecules, 2015, 16, 2316-2326.	2.6	88
46	Protein Glycosylation:â€‰ The Clash of the Titans. Accounts of Chemical Research, 1997, 30, 452-459.	7.6	86
47	Fluorescent Caged Phosphoserine Peptides as Probes to Investigate Phosphorylation-Dependent Protein Associations. Journal of the American Chemical Society, 2003, 125, 10150-10151.	6.6	86
48	Dynamic and specific interaction between synaptic NR2-NMDA receptor and PDZ proteins. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19561-19566.	3.3	86
49	Fluorogenic probes for monitoring peptide binding to class II MHC proteins in living cells. Nature Chemical Biology, 2007, 3, 222-228.	3.9	85
50	Fluorescent Amino Acids: Modular Building Blocks for the Assembly of New Tools for Chemical Biology. ChemBioChem, 2013, 14, 788-799.	1.3	85
51	Economy in Protein Design:Â Evolution of a Metal-Independent Î²Î²Î± Motif Based on the Zinc Finger Domains. Journal of the American Chemical Society, 1996, 118, 3073-3081.	6.6	79
52	Biochemical Characterization of the O-Linked Glycosylation Pathway in Neisseria gonorrhoeae Responsible for Biosynthesis of Protein Glycans Containing N,Nâ€²-Diacetylbacillosamine. Biochemistry, 2011, 50, 4936-4948.	1.2	79
53	Sequential Activation and Deactivation of Protein Function Using Spectrally Differentiated Caged Phosphoamino Acids. Journal of the American Chemical Society, 2011, 133, 11038-11041.	6.6	79
54	Double-Lanthanide-Binding Tags for Macromolecular Crystallographic Structure Determination. Journal of the American Chemical Society, 2007, 129, 7114-7120.	6.6	78

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55	Differences between Asn-Xaa-Thr-containing peptides: a comparison of solution conformation and substrate behavior with oligosaccharyltransferase. Biochemistry, 1991, 30, 4374-4380.	1.2	77
56	Optimal Sox-based fluorescent chemosensor design for serine/threonine protein kinases. Analytical Biochemistry, 2006, 352, 198-207.	1.1	77
57	A versatile synthesis of peptidyl fluoromethyl ketones. Tetrahedron Letters, 1986, 27, 135-138.	0.7	76
58	The interplay of glycosylation and disulfide formation influences fibrillization in a prion protein fragment. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7593-7598.	3.3	76
59	Conformational Switching by Asparagine-Linked Glycosylation. Journal of the American Chemical Society, 1997, 119, 2295-2296.	6.6	74
60	Design and NMR analyses of compact, independently folded BBA motifs. Folding & Design, 1998, 3, 95-103.	4.5	72
61	Perturbing the folding energy landscape of the bacterial immunity protein Im7 by site-specific N-linked glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22528-22533.	3.3	72
62	The Renaissance of Bacillosamine and Its Derivatives: Pathway Characterization and Implications in Pathogenicity. Biochemistry, 2014, 53, 624-638.	1.2	72
63	Photolytic Control of Peptide Self-Assembly. Journal of the American Chemical Society, 2003, 125, 7530-7531.	6.6	69
64	Semisynthesis of a Glycosylated Im7 Analogue for Protein Folding Studies. Journal of the American Chemical Society, 2005, 127, 12882-12889.	6.6	67
65	Stereoselective synthesis and peptide incorporation of (S)-.alpha.-amino-(2,2'-bipyridine)-6-propanoic acid. Journal of Organic Chemistry, 1992, 57, 757-759.	1.7	65
66	Caged Phosphoproteins. Journal of the American Chemical Society, 2005, 127, 846-847.	6.6	64
67	In Vitro Evidence for the Dual Function of Alg2 and Alg11:Â Essential Mannosyltransferases in N-Linked Glycoprotein Biosynthesisâ€. Biochemistry, 2006, 45, 9593-9603.	1.2	64
68	Stereoselective Synthesis of Fluorescent Î±-Amino Acids Containing Oxine (8-Hydroxyquinoline) and Their Peptide Incorporation in Chemosensors for Divalent Zinc. Journal of Organic Chemistry, 1998, 63, 6727-6731.	1.7	63
69	Investigating Bacterial N-Linked Glycosylation:Â Synthesis and Glycosyl Acceptor Activity of the Undecaprenyl Pyrophosphate-Linked Bacillosamine. Journal of the American Chemical Society, 2005, 127, 13766-13767.	6.6	63
70	Probing the Effect of the Outer Saccharide Residues ofN-Linked Glycans on Peptide Conformation. Journal of the American Chemical Society, 2001, 123, 6187-6188.	6.6	62
71	Synthesis of ansamycins: the ansa chain of rifamycin S. Journal of the American Chemical Society, 1982, 104, 5528-5531.	6.6	61
72	A General Screening Strategy for Peptide-Based Fluorogenic Ligands: Probes for Dynamic Studies of PDZ Domain-Mediated Interactions. Journal of the American Chemical Society, 2009, 131, 6680-6682.	6.6	57

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73	Sulfhydryl Modification of the Yeast Wbp1p Inhibits Oligosaccharyl Transferase Activity. Biochemistry, 1995, 34, 4179-4185.	1.2	56
74	Campylobacter jejuni PglH Is a Single Active Site Processive Polymerase that Utilizes Product Inhibition to Limit Sequential Glycosyl Transfer Reactions. Biochemistry, 2009, 48, 2807-2816.	1.2	56
75	Oligomerization of Uniquely Folded Mini-Protein Motifs:Â Development of a Homotrimeric Î²Î²Î± Peptide. Journal of the American Chemical Society, 2001, 123, 3885-3891.	6.6	54
76	Asymmetric Synthesis of a New 8-Hydroxyquinoline-Derived Î±-Amino Acid and Its Incorporation in a Peptidylsensor for Divalent Zinc. Journal of Organic Chemistry, 2001, 66, 3224-3228.	1.7	53
77	Enantioselective synthesis and application of the highly fluorescent and environment-sensitive amino acid 6-(2-dimethylaminonaphthoyl) alanine (DANA)Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b205224e/. Chemical Communications, 2002, , 1912-1913.	2.2	53
78	Thiol-Reactive Derivatives of the Solvatochromic 4-N,N-Dimethylamino-1,8-naphthalimide Fluorophore: A Highly Sensitive Toolset for the Detection of Biomolecular Interactions. Bioconjugate Chemistry, 2009, 20, 2133-2141.	1.8	53
79	Lanthanide-Binding Tags with Unnatural Amino Acids: Sensitizing Tb³⁺ and Eu³⁺ Luminescence at Longer Wavelengths. Bioconjugate Chemistry, 2008, 19, 588-591.	1.8	52
80	Semisynthesis of bipyridyl-alanine cytochrome c mutants: novel proteins with enhanced electron-transfer properties. Journal of the American Chemical Society, 1993, 115, 8455-8456.	6.6	51
81	(S)-.alpha.-Amino-(2,2'-bipyridine)-6-propanoic acid: a versatile amino acid for de novo metalloprotein design. Journal of the American Chemical Society, 1991, 113, 8527-8528.	6.6	50
82	Biochemical evidence for an alternate pathway in N-linked glycoprotein biosynthesis. Nature Chemical Biology, 2013, 9, 367-373.	3.9	50
83	Bacterial phosphoglycosyl transferases: initiators of glycan biosynthesis at the membrane interface. Glycobiology, 2017, 27, 820-833.	1.3	50
84	Coenzyme-Amino Acid Chimeras: New Residues for the Assembly of Functional Proteins. Journal of the American Chemical Society, 1994, 116, 12083-12084.	6.6	49
85	Study of the stability and unfolding mechanism of BBA1 by molecular dynamics simulations at different temperatures. Protein Science, 1999, 8, 1292-1304.	3.1	49
86	Substrate Specificity of the Glycosyl Donor for Oligosaccharyl Transferase. Journal of Organic Chemistry, 2001, 66, 6217-6228.	1.7	48
87	Rapid Combinatorial Screening of Peptide Libraries for the Selection of Lanthanide-Binding Tags (LBTs). QSAR and Combinatorial Science, 2005, 24, 1149-1157.	1.5	48
88	Asparagine surrogates for the assembly of N-linked glycopeptide mimetics by chemoselective ligation. Tetrahedron Letters, 2001, 42, 2085-2087.	0.7	47
89	Monitoring Protein Kinases in Cellular Media with Highly Selective Chimeric Reporters. Angewandte Chemie - International Edition, 2009, 48, 6828-6831.	7.2	47
90	Monotopic Membrane Proteins Join the Fold. Trends in Biochemical Sciences, 2019, 44, 7-20.	3.7	47

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91	Synthesis of Red-Shifted 8-Hydroxyquinoline Derivatives Using Click Chemistry and Their Incorporation into Phosphorylation Chemosensors. Journal of Organic Chemistry, 2009, 74, 7309-7314.	1.7	46
92	Analysis of the conserved glycosylation site in the nicotinic acetylcholine receptor: potential roles in complex assembly. Chemistry and Biology, 1995, 2, 751-759.	6.2	45
93	The engineering of membrane-permeable peptides. Analytical Biochemistry, 2005, 341, 290-298.	1.1	44
94	Polyisoprenol Specificity in the Campylobacter jejuni N-Linked Glycosylation Pathway. Biochemistry, 2007, 46, 14342-14348.	1.2	44
95	Encoded loop-lanthanide-binding tags for long-range distance measurements in proteins by NMR and EPR spectroscopy. Journal of Biomolecular NMR, 2015, 63, 275-282.	1.6	44
96	Genetic and molecular analyses reveal an evolutionary trajectory for glycan synthesis in a bacterial protein glycosylation system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9643-9648.	3.3	43
97	Bacterial carbohydrate diversity â€" a Brave New World. Current Opinion in Chemical Biology, 2019, 53, 1-8.	2.8	43
98	Caged Phospho-Amino Acid Building Blocks for Solid-Phase Peptide Synthesis. Journal of Organic Chemistry, 2003, 68, 6795-6798.	1.7	42
99	Synthesis of dolichols via asymmetric hydrogenation of plant polyprenols. Tetrahedron Letters, 1988, 29, 5343-5344.	0.7	41
100	Design of a discretely folded mini-protein motif with predominantly beta-structure. , 2001, 8, 535-539.		41
101	Biosynthesis of UDP-GlcNAc(3NAc)A by WbpB, WbpE, and WbpD: Enzymes in the Wbp Pathway Responsible for O-Antigen Assembly in Pseudomonas aeruginosa PAO1. Biochemistry, 2009, 48, 5446-5455.	1.2	41
102	General Method for the Synthesis of Caged Phosphopeptides:â€‰ Tools for the Exploration of Signal Transduction Pathways. Organic Letters, 2002, 4, 2865-2868.	2.4	40
103	Crystal Structure and Catalytic Mechanism of PglD from Campylobacter jejuni. Journal of Biological Chemistry, 2008, 283, 27937-27946.	1.6	40
104	Metal Ion Dependence of Oligosaccharyl Transferase: Implications for Catalysis. Biochemistry, 1995, 34, 9444-9450.	1.2	39
105	Membrane association of monotopic phosphoglycosyl transferase underpins function. Nature Chemical Biology, 2018, 14, 538-541.	3.9	39
106	Synthesis of dolichylpyrophosphate-linked oligosaccharides. Tetrahedron Letters, 1990, 31, 6485-6488.	0.7	38
107	Improving Glycopeptide Synthesis:Â A Convenient Protocol for the Preparation of Î²-Glycosylamines and the Synthesis of Glycopeptides. Journal of Organic Chemistry, 2005, 70, 3574-3578.	1.7	37
108	Solution Structure of Alg13: The Sugar Donor Subunit of a Yeast N-Acetylglucosamine Transferase. Structure, 2008, 16, 965-975.	1.6	37

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109	Stereoselective Synthesis and Peptide Incorporation of a Pyridoxal Coenzyme-Amino Acid Chimera. Journal of Organic Chemistry, 1995, 60, 1891-1894.	1.7	36
110	Interrogating Signaling Nodes Involved in Cellular Transformations Using Kinase Activity Probes. Chemistry and Biology, 2012, 19, 210-217.	6.2	35
111	Design of a Heterospecific, Tetrameric, 21-Residue Miniprotein with Mixed Î±/Î² Structure. Structure, 2005, 13, 225-234.	1.6	33
112	Bacterial N-Glycosylation Efficiency Is Dependent on the Structural Context of Target Sequons. Journal of Biological Chemistry, 2016, 291, 22001-22010.	1.6	33
113	A p38Î±-Selective Chemosensor for use in Unfractionated Cell Lysates. ACS Chemical Biology, 2011, 6, 101-105.	1.6	32
114	Conservation and Covariance in Small Bacterial Phosphoglycosyltransferases Identify the Functional Catalytic Core. Biochemistry, 2015, 54, 7326-7334.	1.2	30
115	Analysis of a dual domain phosphoglycosyl transferase reveals a ping-pong mechanism with a covalent enzyme intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7019-7024.	3.3	30
116	In Situ Photoactivation of a Caged Phosphotyrosine Peptide Derived from Focal Adhesion Kinase Temporarily Halts Lamellar Extension of Single Migrating Tumor Cells. Journal of Biological Chemistry, 2005, 280, 22091-22101.	1.6	29
117	Exploiting Topological Constraints To Reveal Buried Sequence Motifs in the Membrane-Bound N-Linked Oligosaccharyl Transferases. Biochemistry, 2011, 50, 7557-7567.	1.2	29
118	Chemistry and biology of asparagine-linked glycosylation. Pure and Applied Chemistry, 1999, 71, 777-787.	0.9	27
119	Neoglycopeptides as Inhibitors of Oligosaccharyl Transferase. Chemistry and Biology, 2002, 9, 1323-1328.	6.2	27
120	Lanthanide-Binding Tags for 3D X-ray Imaging of Proteins in Cells at Nanoscale Resolution. Journal of the American Chemical Society, 2020, 142, 2145-2149.	6.6	27
121	Structural and Functional Characterization of a Constrained Asx-Turn Motif. Journal of the American Chemical Society, 1994, 116, 8424-8425.	6.6	26
122	A Modular Approach to Phosphoglycosyltransferase Inhibitors Inspired by Nucleoside Antibiotics. Chemistry - A European Journal, 2016, 22, 3856-3864.	1.7	26
123	Insights into the key determinants of membrane protein topology enable the identification of new monotopic folds. ELife, 2018, 7, .	2.8	26
124	Design and Evaluation of Potent Inhibitors of Asparagine-Linked Protein Glycosylation. Journal of the American Chemical Society, 1996, 118, 7636-7637.	6.6	25
125	The essential yeastNLT1gene encodes the 64 kDa glycoprotein subunit of the oligosaccharyl transferase. FEBS Letters, 1995, 362, 229-234.	1.3	24
126	Synthesis of the glucoallosamidin pseudo-disaccharide: Use of an efficient Hg(II) mediated cyclization. Tetrahedron Letters, 1996, 37, 599-602.	0.7	24

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127	A Dual Affinity Tag on the 64-kDa Nlt1p Subunit Allows the Rapid Characterization of Mutant Yeast Oligosaccharyl Transferase Complexes. Archives of Biochemistry and Biophysics, 1997, 338, 1-6.	1.4	24
128	A Potent Oligosaccharyl Transferase Inhibitor That Crosses the Intracellular Endoplasmic Reticulum Membraneâ€. Biochemistry, 1999, 38, 5430-5437.	1.2	24
129	Lightâ€Triggered Myosin Activation for Probing Dynamic Cellular Processes. Angewandte Chemie - International Edition, 2011, 50, 5667-5670.	7.2	24
130	Caged Mono- and Divalent Ligands for Light-Assisted Disruption of PDZ Domain-Mediated Interactions. Journal of the American Chemical Society, 2013, 135, 4580-4583.	6.6	24
131	A Rapid and Efficient Luminescence-based Method for Assaying Phosphoglycosyltransferase Enzymes. Scientific Reports, 2016, 6, 33412.	1.6	24
132	Peptidyl chemosensors incorporating a fret mechanism for detection of Ni(II). Bioorganic and Medicinal Chemistry Letters, 1998, 8, 1963-1968.	1.0	23
133	The Chemistryâ€“Glycobiology Frontier. Journal of the American Chemical Society, 2012, 134, 17835-17839.	6.6	23
134	Lipid bilayer nanodisc platform for investigating polyprenol-dependent enzyme interactions and activities. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20863-20870.	3.3	23
135	Tailoring Chimeric Ligands for Studying and Biasing ErbB Receptor Family Interactions. Angewandte Chemie - International Edition, 2014, 53, 2662-2666.	7.2	23
136	Antibodies from multiple sclerosis patients preferentially recognize hyperglucosylated adhesin of non-typeable Haemophilus influenzae. Scientific Reports, 2016, 6, 39430.	1.6	23
137	Structural and mechanistic themes in glycoconjugate biosynthesis at membrane interfaces. Current Opinion in Structural Biology, 2019, 59, 81-90.	2.6	23
138	N-Linked Glycans Are Assembled on Highly Reduced Dolichol Phosphate Carriers in the Hyperthermophilic Archaea Pyrococcus furiosus. PLoS ONE, 2015, 10, e0130482.	1.1	23
139	Tailoring Encodable Lanthanideâ€Binding Tags as MRI Contrast Agents. ChemBioChem, 2012, 13, 2567-2574.	1.3	22
140	Biosynthesis of UDP-N,Nâ€²-diacetylbacillosamine in Acinetobacter baumannii: Biochemical characterization and correlation to existing pathways. Archives of Biochemistry and Biophysics, 2013, 536, 72-80.	1.4	22
141	Stereochemical Divergence of Polyprenol Phosphate Glycosyltransferases. Trends in Biochemical Sciences, 2018, 43, 10-17.	3.7	22
142	Semisynthesis of unnatural amino acid mutants of paxillin: Protein probes for cell migration studies. Protein Science, 2007, 16, 550-556.	3.1	21
143	Chemoenzymatic synthesis of polyprenyl phosphates. Bioorganic and Medicinal Chemistry, 2008, 16, 5149-5156.	1.4	21
144	Synthesis of anhydride precursors of the environment-sensitive fluorophores 4-DMAP and 6-DMN. Nature Protocols, 2007, 2, 3219-3225.	5.5	20

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145	Affinity-Capture Tandem Mass Spectrometric Characterization of Polyprenyl-Linked Oligosaccharides: Tool to Study Protein N-Glycosylation Pathways. Analytical Chemistry, 2008, 80, 5468-5475.	3.2	20
146	Structural Analysis of WbpE from Pseudomonas aeruginosa PAO1: A Nucleotide Sugar Aminotransferase Involved in O-Antigen Assembly,. Biochemistry, 2010, 49, 7227-7237.	1.2	20
147	Selective Mitogen Activated Protein Kinase Activity Sensors through the Application of Directionally Programmable D Domain Motifs. Biochemistry, 2014, 53, 5771-5778.	1.2	20
148	Tools for investigating peptideâ€“protein interactions: peptide incorporation of environment-sensitive fluorophores via on-resin derivatization. Nature Protocols, 2007, 2, 3201-3209.	5.5	19
149	A rapid method for generation of selective Sox-based chemosensors of Ser/Thr kinases using combinatorial peptide libraries. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1258-1260.	1.0	19
150	Strategies and Tactics for the Development of Selective Glycan-Binding Proteins. ACS Chemical Biology, 2021, 16, 1795-1813.	1.6	19
151	Stereoselective synthesis of Î²-linked TBDMS-protected chitobiose-asparagine: a versatile building block for amyloidogenic glycopeptides. Tetrahedron Letters, 2001, 42, 7207-7210.	0.7	18
152	X-ray structure analysis of a designed oligomeric miniprotein reveals a discrete quaternary architecture. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12183-12188.	3.3	18
153	Development of a fluorogenic sensor for activated Cdc42. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5058-5061.	1.0	18
154	Targeting Bacillosamine Biosynthesis in Bacterial Pathogens: Development of Inhibitors to a Bacterial Amino-Sugar Acetyltransferase from Campylobacter jejuni. Journal of Medicinal Chemistry, 2017, 60, 2099-2118.	2.9	17
155	Glycoconjugate pathway connections revealed by sequence similarity network analysis of the monotopic phosphoglycosyl transferases. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
156	Design strategies for the construction of independently folded polypeptide motifs. , 1998, 47, 23-29.		16
157	Modulating pyridoxamine-mediated transamination through a Î²Î²Î± motif peptide scaffold. Bioorganic and Medicinal Chemistry, 1999, 7, 1993-2002.	1.4	16
158	Discovery and Characterization of a Discretely Folded Homotrimeric Î²Î²Î± Peptide. Journal of the American Chemical Society, 2001, 123, 1002-1003.	6.6	16
159	Expression of N-terminal Cys-protein fragments using an intein refolding strategy. Bioorganic and Medicinal Chemistry, 2006, 14, 5043-5048.	1.4	16
160	Design and Construction of Novel Peptides and Proteins by Tailored Incorporation of Coenzyme Functionality. Topics in Current Chemistry, 1999, , 1-38.	4.0	16
161	Structural and Functional Analysis of Peptidyl Oligosaccharyl Transferase Inhibitorsâ€. Biochemistry, 1997, 36, 12554-12559.	1.2	15
162	FRETâ€Capture: A Sensitive Method for the Detection of Dynamic Protein Interactions. ChemBioChem, 2013, 14, 53-57.	1.3	15

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