Gonalo J L Bernardes

List of Publications by Year in Descending Order

181 papers	9,135 citations	48 h-index	92 g-index
206 ext. papers	11,082 ext. citations	11.4 avg, IF	6.68 L-index

#	Paper	IF	Citations
181	Transition metal mediated bioorthogonal release. *Chem Catalysis*, **2022**, 2, 39-51		2
180	Retaining the structural integrity of disulfide bonds in diphtheria toxoid carrier protein is crucial for the effectiveness of glycoconjugate vaccine candidates.. *Chemical Science*, **2022**, 13, 2440-2449	9.4	0
179	Structural insights into TRPV2 activation by small molecules.. *Nature Communications*, **2022**, 13, 2334	17.4	1
178	The Impact of Activity-Based Protein Profiling in Malaria Drug Discovery.. *ChemMedChem*, **2022**, e202200174	3.7	2
177	Diazaborines Are a Versatile Platform to Develop ROS-Responsive Antibody Drug Conjugates**. *Angewandte Chemie*, **2021**, 133, 26118-26125	3.6	
176	Bioorthogonal Self-Immolative Linker Based on Grob Fragmentation. *Organic Letters*, **2021**, 23, 8580-8584	4.2	0
175	Accelerating Reaction Rates of Biomolecules by Using Shear Stress in Artificial Capillary Systems. *Journal of the American Chemical Society*, **2021**, 143, 16401-16410	16.4	3
174	Allosteric Antagonist Modulation of TRPV2 by Piperlongumine Impairs Glioblastoma Progression. *ACS Central Science*, **2021**, 7, 868-881	16.8	7
173	Exploration of Long-Chain Vitamin E Metabolites for the Discovery of a Highly Potent, Orally Effective, and Metabolically Stable 5-LOX Inhibitor that Limits Inflammation. *Journal of Medicinal Chemistry*, **2021**, 64, 11496-11526	8.3	2
172	The role of reversible and irreversible covalent chemistry in targeted protein degradation. *Cell Chemical Biology*, **2021**, 28, 952-968	8.2	11
171	Arylethynyltrifluoroborate Dienophiles for on Demand Activation of IEDDA Reactions. *Bioconjugate Chemistry*, **2021**, 32, 1812-1822	6.3	1
170	Systematic Activity Maturation of a Single-Domain Antibody with Non-canonical Amino Acids through Chemical Mutagenesis. *Cell Chemical Biology*, **2021**, 28, 70-77.e5	8.2	6
169	In Vivo Pretargeting Based on Cysteine-Selective Antibody Modification with IEDDA Bioorthogonal Handles for Click Chemistry. *Bioconjugate Chemistry*, **2021**, 32, 121-132	6.3	9
168	Protein Conjugation by Electrophilic Alkynylation Using 5-(Alkynyl)dibenzothiophenium Triflates. *Bioconjugate Chemistry*, **2021**, 32, 1570-1575	6.3	1
167	METTL1-mediated mG modification of Arg-TCT tRNA drives oncogenic transformation. *Molecular Cell*, **2021**, 81, 3323-3338.e14	17.6	20
166	Combating small-molecule aggregation with machine learning. *Cell Reports Physical Science*, **2021**, 2, 100573	6.1	3
165	Dichloro Butenediamides as Irreversible Site-Selective Protein Conjugation Reagent. *Angewandte Chemie*, **2021**, 133, 23943	3.6	2

164	A Platform for Site-Specific DNA-Antibody Bioconjugation by Using Benzoylacrylic-Labelled Oligonucleotides. *Angewandte Chemie - International Edition*, **2021**, 60, 25905-25913	16.4	1
163	Dichloro Butenediamides as Irreversible Site-Selective Protein Conjugation Reagent. *Angewandte Chemie - International Edition*, **2021**, 60, 23750-23755	16.4	3
162	Facile Installation of Post-translational Modifications on the Tau Protein via Chemical Mutagenesis. *ACS Chemical Neuroscience*, **2021**, 12, 557-561	5.7	4
161	A Structural Ensemble of a Tau-Microtubule Complex Reveals Regulatory Tau Phosphorylation and Acetylation Mechanisms.. *ACS Central Science*, **2021**, 7, 1986-1995	16.8	3
160	meCLICK-Seq, a Substrate-Hijacking and RNA Degradation Strategy for the Study of RNA Methylation. *ACS Central Science*, **2020**, 6, 2196-2208	16.8	17
159	Precise Installation of Diazo-Tagged Side-Chains on Proteins to Enable In Vitro and In-Cell Site-Specific Labeling. *Bioconjugate Chemistry*, **2020**, 31, 1604-1610	6.3	4
158	Synthesis, characterization and photoinduced CO-release by manganese(I) complexes. *New Journal of Chemistry*, **2020**, 44, 10892-10901	3.6	2
157	The antidiabetic drug lobeglitazone has the potential to inhibit PTP1B activity. *Bioorganic Chemistry* , **2020**, 100, 103927	5.1	5
156	Alkynyl Benzoxazines and Dihydroquinazolines as Cysteine Targeting Covalent Warheads and Their Application in Identification of Selective Irreversible Kinase Inhibitors. *Journal of the American Chemical Society*, **2020**, 142, 10358-10372	16.4	20
155	Platinum-Triggered Bond-Cleavage of Pentynoyl Amide and -Propargyl Handles for Drug-Activation. *Journal of the American Chemical Society*, **2020**, 142, 10869-10880	16.4	38
154	Tetrazine Carbon Nanotubes for Pretargeted In Vivo Click-to-Release Bioorthogonal Tumour Imaging. *Angewandte Chemie*, **2020**, 132, 16157-16166	3.6	1
153	Tetrazine Carbon Nanotubes for Pretargeted In Vivo "Click-to-Release" Bioorthogonal Tumour Imaging. *Angewandte Chemie - International Edition*, **2020**, 59, 16023-16032	16.4	18
152	Multi-scale microporous silica microcapsules from gas-in water-in oil emulsions. *Soft Matter*, **2020**, 16, 3082-3087	3.6	7
151	Synthesis, conformational analysis and assays of an anti-cancer vaccine that features an unnatural antigen based on an sp-iminosugar fragment. *Chemical Science*, **2020**, 11, 3996-4006	9.4	11
150	Continuous Flow Reactors from Microfluidic Compartmentalization of Enzymes within Inorganic Microparticles. *ACS Applied Materials & Interfaces*, **2020**, 12, 32951-32960	9.5	9
149	Stable Pyrrole-Linked Bioconjugates through Tetrazine-Triggered Azanorbornadiene Fragmentation. *Angewandte Chemie - International Edition*, **2020**, 59, 6196-6200	16.4	10
148	Stable Pyrrole-Linked Bioconjugates through Tetrazine-Triggered Azanorbornadiene Fragmentation. *Angewandte Chemie*, **2020**, 132, 6255-6259	3.6	7
147	Fluoroglycoproteins by Copper-Free Strain-Promoted Azide Alkyne Cycloaddition. *Springer Protocols*, **2020**, 53-67	0.3	0

146	Machine learning for target discovery in drug development. *Current Opinion in Chemical Biology*, **2020**, 56, 16-22	9.7	19
145	Proteome-Wide Survey of Cysteine Oxidation by Using a Norbornene Probe. *ChemBioChem*, **2020**, 21, 1329-1334	3.8	8
144	Sequential dual site-selective protein labelling enabled by lysine modification. *Bioorganic and Medicinal Chemistry*, **2020**, 28, 115783	3.4	1
143	Mechanistic insights into transition metal-mediated bioorthogonal uncaging reactions. *Chemical Society Reviews*, **2020**, 49, 7710-7729	58.5	18
142	Structural characterization of an unprecedented lectin-like antitumoral anti-MUC1 antibody. *Chemical Communications*, **2020**, 56, 15137-15140	5.8	4
141	Adaptive Optimization of Chemical Reactions with Minimal Experimental Information. *Cell Reports Physical Science*, **2020**, 1, 100247	6.1	16
140	Serine-Selective Bioconjugation. *Journal of the American Chemical Society*, **2020**, 142, 17236-17242	16.4	31
139	Structural and biophysical insights into the mode of covalent binding of rationally designed potent BMX inhibitors. *RSC Chemical Biology*, **2020**, 1, 251-262	3	2
138	R□ktitelbild: Tetrazine Carbon Nanotubes for Pretargeted In Vivo □Click-to-Release□ Bioorthogonal Tumour Imaging (Angew. Chem. 37/2020). *Angewandte Chemie*, **2020**, 132, 16388-16388	3.6	
137	Biomimetic peptide self-assembly for functional materials. *Nature Reviews Chemistry*, **2020**, 4, 615-634	34.6	121
136	Precise protein conjugation technology for the construction of homogenous glycovaccines.. *Drug Discovery Today: Technologies*, **2020**, 38, 69-75	7.1	1
135	A Sweet Galactose Transfer: Metabolic Oligosaccharide Engineering as a Tool To Study Glycans in Plasmodium Infection. *ChemBioChem*, **2020**, 21, 2696-2700	3.8	6
134	A Microfluidic Co-Flow Route for Human Serum Albumin-Drug-Nanoparticle Assembly. *Chemistry - A European Journal*, **2020**, 26, 5965-5969	4.8	8
133	Ethynylbenziodoxolone Reactivity in Cysteine Bioconjugation. *CheM*, **2019**, 5, 1932-1934	16.2	2
132	One-pot stapling of interchain disulfides of antibodies using an isobutylene motif. *Organic and Biomolecular Chemistry*, **2019**, 17, 2005-2012	3.9	11
131	Triaminopyrimidine derivatives as transmembrane HCl transporters. *Organic and Biomolecular Chemistry*, **2019**, 17, 5633-5638	3.9	1
130	Development of a self-immolative linker for tetrazine-triggered release of alcohols in cells. *Organic and Biomolecular Chemistry*, **2019**, 17, 5725-5730	3.9	10
129	Overexpression of Osmosensitive Ca-Permeable Channel TMEM63B Promotes Migration in HEK293T Cells. *Biochemistry*, **2019**, 58, 2861-2866	3.2	3

128	Dissecting celastrol with machine learning to unveil dark pharmacology. *Chemical Communications*, **2019**, 55, 6369-6372	5.8	6
127	Computational advances in combating colloidal aggregation in drug discovery. *Nature Chemistry*, **2019**, 11, 402-418	17.6	35
126	Norbornene Probes for the Detection of Cysteine Sulfenic Acid in Cells. *ACS Chemical Biology*, **2019**, 14, 594-598	4.9	25
125	Azabicyclic vinyl sulfones for residue-specific dual protein labelling. *Chemical Science*, **2019**, 10, 4515-4522	9.4	18
124	Quaternization of Vinyl/Alkynyl Pyridine Enables Ultrafast Cysteine-Selective Protein Modification and Charge Modulation. *Angewandte Chemie - International Edition*, **2019**, 58, 6640-6644	16.4	28
123	Synthesis, characterization and biological evaluation of new manganese metal carbonyl compounds that contain sulfur and selenium ligands as a promising new class of CORMs. *Dalton Transactions*, **2019**, 48, 5574-5584	4.3	11
122	Natural product-drug conjugates for modulation of TRPV1-expressing tumors. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 2531-2536	3.4	5
121	Quaternization of Vinyl/Alkynyl Pyridine Enables Ultrafast Cysteine-Selective Protein Modification and Charge Modulation. *Angewandte Chemie*, **2019**, 131, 6712-6716	3.6	7
120	Structure-Based Design of Potent Tumor-Associated Antigens: Modulation of Peptide Presentation by Single-Atom O/S or O/Se Substitutions at the Glycosidic Linkage. *Journal of the American Chemical Society*, **2019**, 141, 4063-4072	16.4	30
119	Tetrazine-Triggered Release of Carboxylic-Acid-Containing Molecules for Activation of an Anti-inflammatory Drug. *ChemBioChem*, **2019**, 20, 1541-1546	3.8	11
118	Contemporary approaches to site-selective protein modification. *Nature Reviews Chemistry*, **2019**, 3, 147-171	34.6	185
117	Evaluation of linker length effects on a BET bromodomain probe. *Chemical Communications*, **2019**, 55, 10128-10131	5.8	1
116	Enhancement of the Anti-Aggregation Activity of a Molecular Chaperone Using a Rationally Designed Post-Translational Modification. *ACS Central Science*, **2019**, 5, 1417-1424	16.8	11
115	Lysine Bioconjugation on Native Albumin with a Sulfonyl Acrylate Reagent. *Methods in Molecular Biology*, **2019**, 2033, 25-37	1.4	3
114	A Fluorogenic Probe for Cell Surface Phosphatidylserine Using an Intramolecular Indicator Displacement Sensing Mechanism. *Angewandte Chemie*, **2019**, 131, 3119-3123	3.6	7
113	Efficient and irreversible antibody-cysteine bioconjugation using carbonylacrylic reagents. *Nature Protocols*, **2019**, 14, 86-99	18.8	32
112	A Fluorogenic Probe for Cell Surface Phosphatidylserine Using an Intramolecular Indicator Displacement Sensing Mechanism. *Angewandte Chemie - International Edition*, **2019**, 58, 3087-3091	16.4	33
111	De novo design of potent and selective mimics of IL-2 and IL-15. *Nature*, **2019**, 565, 186-191	50.4	184

110	Chemo- and Regioselective Lysine Modification on Native Proteins. *Journal of the American Chemical Society*, **2018**, 140, 4004-4017	16.4	145
109	Site-selective installation of an electrophilic handle on proteins for bioconjugation. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 3060-3064	3.4	18
108	Antikörpergerichtete Therapien: Quo vadis?. *Angewandte Chemie*, **2018**, 130, 2050-2052	3.6	
107	Sustainable Polysulfides for Oil Spill Remediation: Repurposing Industrial Waste for Environmental Benefit. *Advanced Sustainable Systems*, **2018**, 2, 1800024	5.9	77
106	A thioether-directed palladium-cleavable linker for targeted bioorthogonal drug decaging. *Chemical Science*, **2018**, 9, 4185-4189	9.4	52
105	Development of Antibody-Directed Therapies: Quo Vadis?. *Angewandte Chemie - International Edition*, **2018**, 57, 2032-2034	16.4	21
104	Synthesis and Biological Evaluation of Homogeneous Thiol-Linked NHC*-Au-Albumin and -Trastuzumab Bioconjugates. *Chemistry - A European Journal*, **2018**, 24, 12250-12253	4.8	21
103	Enhanced Permeability and Binding Activity of Isobutylene-Grafted Peptides. *ChemBioChem*, **2018**, 19, 48-52	3.8	10
102	Machine intelligence decrypts β-lapachone as an allosteric 5-lipoxygenase inhibitor. *Chemical Science*, **2018**, 9, 6899-6903	9.4	41
101	Norbornene probes for the study of cysteine oxidation. *Tetrahedron*, **2018**, 74, 1220-1228	2.4	20
100	Bioorthogonal Decaging Reactions for Targeted Drug Activation. *Chimia*, **2018**, 72, 771-776	1.3	15
99	Radical-Mediated Thiol-Ene Strategy: Photoactivation of Thiol-Containing Drugs in Cancer Cells. *Angewandte Chemie - International Edition*, **2018**, 57, 15832-15835	16.4	17
98	Posttranslational Chemical Mutagenesis: To Reveal the Role of Noncatalytic Cysteine Residues in Pathogenic Bacterial Phosphatases. *Biochemistry*, **2018**, 57, 6144-6152	3.2	5
97	Modular Pore-Forming Immunotoxins with Caged Cytotoxicity Tailored by Directed Evolution. *ACS Chemical Biology*, **2018**, 13, 3153-3160	4.9	13
96	Radical-Mediated Thiol-Ene Strategy: Photoactivation of Thiol-Containing Drugs in Cancer Cells. *Angewandte Chemie*, **2018**, 130, 16058-16061	3.6	4
95	A silicon-labelled amino acid suitable for late-stage fluorination and unexpected oxidative cleavage reactions in the preparation of a key intermediate in the Strecker synthesis. *Peptide Science*, **2018**, 110, e24069	3	1
94	Site-Selective Modification of Proteins with Oxetanes. *Chemistry - A European Journal*, **2017**, 23, 6483-6488	4.8	27
93	A brain-sparing diphtheria toxin for chemical genetic ablation of peripheral cell lineages. *Nature Communications*, **2017**, 8, 14967	17.4	20

92	Protein modification alkyne hydrosilylation using a substoichiometric amount of ruthenium(ii) catalyst. *Chemical Science*, **2017**, 8, 3871-3878	9.4	12
91	Vinyl Ether/Tetrazine Pair for the Traceless Release of Alcohols in Cells. *Angewandte Chemie - International Edition*, **2017**, 56, 243-247	16.4	65
90	Vinyl Ether/Tetrazine Pair for the Traceless Release of Alcohols in Cells. *Angewandte Chemie*, **2017**, 129, 249-253	3.6	13
89	Oxetane Grafts Installed Site-Selectively on Native Disulfides to Enhance Protein Stability and Activity In Vivo. *Angewandte Chemie - International Edition*, **2017**, 56, 14963-14967	16.4	32
88	Oxetane Grafts Installed Site-Selectively on Native Disulfides to Enhance Protein Stability and Activity In Vivo. *Angewandte Chemie*, **2017**, 129, 15159-15163	3.6	8
87	Oxidative Activation of C-S Bonds with an Electropositive Nitrogen Promoter Enables Orthogonal Glycosylation of Alkyl over Phenyl Thioglycosides. *Organic Letters*, **2017**, 19, 5490-5493	6.2	18
86	A Water-Bridged Cysteine-Cysteine Redox Regulation Mechanism in Bacterial Protein Tyrosine Phosphatases. *CheM*, **2017**, 3, 665-677	16.2	13
85	Laying Waste to Mercury: Inexpensive Sorbents Made from Sulfur and Recycled Cooking Oils. *Chemistry - A European Journal*, **2017**, 23, 16219-16230	4.8	123
84	Nickel-Catalyzed Azide-Alkyne Cycloaddition To Access 1,5-Disubstituted 1,2,3-Triazoles in Air and Water. *Journal of the American Chemical Society*, **2017**, 139, 12121-12124	16.4	91
83	In situ characterization of advanced glycation end products (AGEs) in collagen and model extracellular matrix by solid state NMR. *Chemical Communications*, **2017**, 53, 13316-13319	5.8	7
82	Chemoselective Installation of Amine Bonds on Proteins through Aza-Michael Ligation. *Journal of the American Chemical Society*, **2017**, 139, 18365-18375	16.4	59
81	Precise Probing of Residue Roles by Post-Translational ΠC,N Aza-Michael Mutagenesis in Enzyme Active Sites. *ACS Central Science*, **2017**, 3, 1168-1173	16.8	20
80	The Use of Fluoroproline in MUC1 Antigen Enables Efficient Detection of Antibodies in Patients with Prostate Cancer. *Journal of the American Chemical Society*, **2017**, 139, 18255-18261	16.4	23
79	Inverse electron demand Diels-Alder reactions in chemical biology. *Chemical Society Reviews*, **2017**, 46, 4895-4950	58.5	465
78	Trends in therapeutic drug conjugates for bacterial diseases: a patent review. *Expert Opinion on Therapeutic Patents*, **2017**, 27, 179-189	6.8	19
77	Site-selective installation of BASHY fluorescent dyes to Annexin V for targeted detection of apoptotic cells. *Chemical Communications*, **2016**, 53, 368-371	5.8	20
76	Antibody-drug conjugates: The missing link. *Nature Chemistry*, **2016**, 8, 1088-1090	17.6	6
75	Tn Antigen Mimics Based on sp(2)-Iminosugars with Affinity for an anti-MUC1 Antibody. *Organic Letters*, **2016**, 18, 3890-3	6.2	25

74	Unveiling (-)-Englerin A as a Modulator of L-Type Calcium Channels. *Angewandte Chemie - International Edition*, **2016**, 55, 11077-81	16.4	29
73	A Minimal, Unstrained S-Allyl Handle for Pre-Targeting Diels–Alder Bioorthogonal Labeling in Live Cells. *Angewandte Chemie*, **2016**, 128, 14903-14907	3.6	4
72	Stoichiometric and irreversible cysteine-selective protein modification using carbonylacrylic reagents. *Nature Communications*, **2016**, 7, 13128	17.4	107
71	A Minimal, Unstrained S-Allyl Handle for Pre-Targeting Diels-Alder Bioorthogonal Labeling in Live Cells. *Angewandte Chemie - International Edition*, **2016**, 55, 14683-14687	16.4	24
70	Iminoboronates are efficient intermediates for selective, rapid and reversible -terminal cysteine functionalisation. *Chemical Science*, **2016**, 7, 5052-5058	9.4	58
69	Natural product modulators of transient receptor potential (TRP) channels as potential anti-cancer agents. *Chemical Society Reviews*, **2016**, 45, 6130-6137	58.5	48
68	Construction of homogeneous antibody-drug conjugates using site-selective protein chemistry. *Chemical Science*, **2016**, 7, 2954-2963	9.4	101
67	Urban Endocrine Disruptors Targeting Breast Cancer Proteins. *Chemical Research in Toxicology*, **2016**, 29, 150-61	4	17
66	Site-selective protein-modification chemistry for basic biology and drug development. *Nature Chemistry*, **2016**, 8, 103-13	17.6	355
65	Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. *Angewandte Chemie - International Edition*, **2016**, 55, 1714-8	16.4	158
64	Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. *Angewandte Chemie*, **2016**, 128, 1746-1750	3.6	24
63	Posttranslational mutagenesis: A chemical strategy for exploring protein side-chain diversity. *Science*, **2016**, 354,	33.3	182
62	Bioorthogonal Strategy for Bioprocessing of Specific-Site-Functionalized Enveloped Influenza-Virus-Like Particles. *Bioconjugate Chemistry*, **2016**, 27, 2386-2399	6.3	15
61	Unveiling (−)-Englerin A as a Modulator of L-Type Calcium Channels. *Angewandte Chemie*, **2016**, 128, 11243-11247	3.6	5
60	Folic acid-tagged protein nanoemulsions loaded with CORM-2 enhance the survival of mice bearing subcutaneous A20 lymphoma tumors. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1077-83	6	25
59	Peptide Anchor for Folate-Targeted Liposomal Delivery. *Biomacromolecules*, **2015**, 16, 2904-10	6.9	31
58	Size controlled protein nanoemulsions for active targeting of folate receptor positive cells. *Colloids and Surfaces B: Biointerfaces*, **2015**, 135, 90-98	6	22
57	Dynamic interplay between catalytic and lectin domains of GalNAc-transferases modulates protein O-glycosylation. *Nature Communications*, **2015**, 6, 6937	17.4	61

56	Collagen labelling with an azide-proline chemical reporter in live cells. *Chemical Communications*, **2015**, 51, 5250-2	5.8	12
55	Enhancing Methotrexate Tolerance with Folate Tagged Liposomes in Arthritic Mice. *Journal of Biomedical Nanotechnology*, **2015**, 11, 2243-52	4	45
54	Functionalized protein nanoemulsions by incorporation of chemically modified BSA. *RSC Advances*, **2015**, 5, 4976-4983	3.7	17
53	A contribution to the rational design of Ru(CO)3Cl2L complexes for in vivo delivery of CO. *Dalton Transactions*, **2015**, 44, 5058-75	4.3	50
52	Spontaneous CO Release from RuII(CO)2B Protein Complexes in Aqueous Solution, Cells, and Mice. *Angewandte Chemie*, **2015**, 127, 1188-1191	3.6	24
51	Deciphering the Non-Equivalence of Serine and Threonine O-Glycosylation Points: Implications for Molecular Recognition of the Tn Antigen by an anti-MUC1 Antibody. *Angewandte Chemie - International Edition*, **2015**, 54, 9830-4	16.4	48
50	Deciphering the Non-Equivalence of Serine and Threonine O-Glycosylation Points: Implications for Molecular Recognition of the Tn Antigen by an anti-MUC1 Antibody. *Angewandte Chemie*, **2015**, 127, 9968-9972	3.6	7
49	An N-Acetyl Cysteine Ruthenium Tricarbonyl Conjugate Enables Simultaneous Release of CO and Ablation of Reactive Oxygen Species. *Chemistry - A European Journal*, **2015**, 21, 14708-12	4.8	14
48	Synthesis of fluorosugar reagents for the construction of well-defined fluoroglycoproteins. *Organic Letters*, **2015**, 17, 2836-9	6.2	15
47	Advances in chemical protein modification. *Chemical Reviews*, **2015**, 115, 2174-95	68.1	660
46	An artificial CO-releasing metalloprotein built by histidine-selective metallation. *Chemical Communications*, **2015**, 51, 3993-6	5.8	20
45	Spontaneous CO release from Ru(II)(CO)2-protein complexes in aqueous solution, cells, and mice. *Angewandte Chemie - International Edition*, **2015**, 54, 1172-5	16.4	102
44	A small-molecule drug conjugate for the treatment of carbonic anhydrase IX expressing tumors. *Angewandte Chemie - International Edition*, **2014**, 53, 4231-5	16.4	210
43	Protein micro- and nano-capsules for biomedical applications. *Chemical Society Reviews*, **2014**, 43, 1361-74	38.5	90
42	Cysteine-selective reactions for antibody conjugation. *Angewandte Chemie - International Edition*, **2014**, 53, 10585-7	16.4	95
41	Curative properties of noninternalizing antibody-drug conjugates based on maytansinoids. *Cancer Research*, **2014**, 74, 2569-78	10.1	100
40	Rationally designed short polyisoprenol-linked PglB substrates for engineered polypeptide and protein N-glycosylation. *Journal of the American Chemical Society*, **2014**, 136, 566-9	16.4	30
39	Ein niedermolekulares Ligand-Wirkstoff-Konjugat zur Behandlung von Carboanhydrase IX exprimierenden Tumoren. *Angewandte Chemie*, **2014**, 126, 4315-4320	3.6	10

38	Cysteinselektive Reaktionen zur Konjugation von Antikörpern. *Angewandte Chemie*, **2014**, 126, 10758-10760	3.6	31
37	Kohlenstoffmonoxid freisetzende Moleküle für die therapeutische CO-Verabreichung in vivo. *Angewandte Chemie*, **2014**, 126, 9868-9877	3.6	30
36	Carbon-monoxide-releasing molecules for the delivery of therapeutic CO in vivo. *Angewandte Chemie - International Edition*, **2014**, 53, 9712-21	16.4	218
35	Site-specific chemical modification of antibody fragments using traceless cleavable linkers. *Nature Protocols*, **2013**, 8, 2079-89	18.8	57
34	Synthetically defined glycoprotein vaccines: current status and future directions. *Chemical Science*, **2013**, 4, 2995-3008	9.4	123
33	Spacer length shapes drug release and therapeutic efficacy of traceless disulfide-linked ADCs targeting the tumor neovasculature. *Chemical Science*, **2013**, 4, 297-302	9.4	24
32	A traceless vascular-targeting antibody-drug conjugate for cancer therapy. *Angewandte Chemie - International Edition*, **2012**, 51, 941-4	16.4	100
31	Selenenylsulfide-linked homogeneous glycopeptides and glycoproteins: synthesis of human "hepatic Se metabolite A". *Angewandte Chemie - International Edition*, **2012**, 51, 1432-6	16.4	49
30	Generation of Carbon Monoxide Releasing Molecules (CO-RMs) as Drug Candidates for the Treatment of Acute Liver Injury: Targeting of CO-RMs to the Liver. *Organometallics*, **2012**, 31, 5810-5822	3.8	69
29	Developing drug molecules for therapy with carbon monoxide. *Chemical Society Reviews*, **2012**, 41, 3571-3583	58.5	346
28	Fucose-specific conjugation of hydrazide derivatives to a vascular-targeting monoclonal antibody in IgG format. *Chemical Communications*, **2012**, 48, 7100-2	5.8	59
27	A Traceless Vascular-Targeting Antibody–Drug Conjugate for Cancer Therapy. *Angewandte Chemie*, **2012**, 124, 965-968	3.6	21
26	Selenenylsulfide-Linked Homogeneous Glycopeptides and Glycoproteins: Synthesis of Human "Hepatic Se Metabolite A". *Angewandte Chemie*, **2012**, 124, 1461-1465	3.6	14
25	A novel carbon monoxide-releasing molecule fully protects mice from severe malaria. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 1281-90	5.9	76
24	Methods for converting cysteine to dehydroalanine on peptides and proteins. *Chemical Science*, **2011**, 2, 1666	9.4	241
23	CORM-3 reactivity toward proteins: the crystal structure of a Ru(II) dicarbonyl-lysozyme complex. *Journal of the American Chemical Society*, **2011**, 133, 1192-5	16.4	160
22	Direct radiolabelling of proteins at cysteine using [18F]-fluorosugars. *Chemical Communications*, **2011**, 47, 10010-2	5.8	33
21	A "tag-and-modify" approach to site-selective protein modification. *Accounts of Chemical Research*, **2011**, 44, 730-41	24.3	287

20	A Coordinated Synthesis and Conjugation Strategy for the Preparation of Homogeneous Glycoconjugate Vaccine Candidates. *Angewandte Chemie*, **2011**, 123, 4213-4218	3.6	11
19	A coordinated synthesis and conjugation strategy for the preparation of homogeneous glycoconjugate vaccine candidates. *Angewandte Chemie - International Edition*, **2011**, 50, 4127-32	16.4	64
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