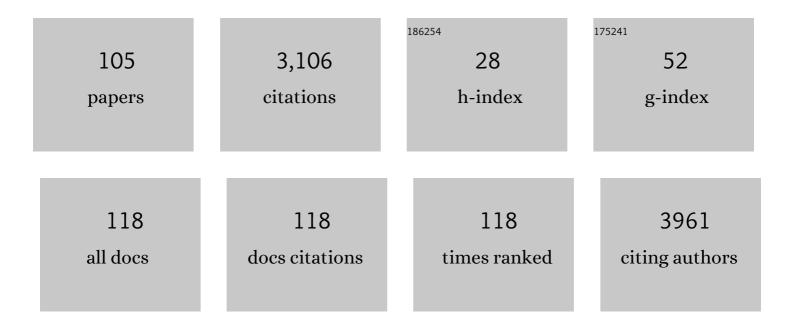
Christian F W Becker

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6649836/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Substrates and Regulation Mechanisms for the Human Mitochondrial Sirtuins Sirt3 and Sirt5. Journal of Molecular Biology, 2008, 382, 790-801.	4.2	474
2	Native chemical ligation in protein synthesis and semi-synthesis. Chemical Society Reviews, 2018, 47, 9046-9068.	38.1	232
3	An acetylome peptide microarray reveals specificities and deacetylation substrates for all human sirtuin isoforms. Nature Communications, 2013, 4, 2327.	12.8	179
4	Silaffins in Silica Biomineralization and Biomimetic Silica Precipitation. Marine Drugs, 2015, 13, 5297-5333.	4.6	96
5	Semisynthesis of a Glycosylphosphatidylinositolâ€Anchored Prion Protein. Angewandte Chemie - International Edition, 2008, 47, 8215-8219.	13.8	93
6	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. Nature Chemical Biology, 2010, 6, 46-53.	8.0	88
7	Green tea extracts interfere with the stressâ€protective activity of PrP ^C and the formation of PrP ^{Sc} . Journal of Neurochemistry, 2008, 107, 218-229.	3.9	64
8	Protein semi-synthesis: New proteins for functional and structural studies. New Biotechnology, 2005, 22, 153-172.	2.7	63
9	Total Chemical Synthesis of an Integral Membrane Enzyme: Diacylglycerol Kinase from <i>Escherichia coli</i> . Angewandte Chemie - International Edition, 2011, 50, 3988-3992.	13.8	61
10	A sequenceâ€function analysis of the silica precipitating silaffin R5 peptide. Journal of Peptide Science, 2014, 20, 152-158.	1.4	60
11	One-shot NMR analysis of microbial secretions identifies highly potent proteasome inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18367-18371.	7.1	58
12	Total chemical synthesis of a functional interacting protein pair: The protooncogene H-Ras and the Ras-binding domain of its effector c-Raf1. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5075-5080.	7.1	57
13	Semisynthetic Murine Prion Protein Equipped with a GPI Anchor Mimic Incorporates into Cellular Membranes. Chemistry and Biology, 2007, 14, 994-1006.	6.0	56
14	A PEGylated Photocleavable Auxiliary Mediates the Sequential Enzymatic Glycosylation and Native Chemical Ligation of Peptides. Angewandte Chemie - International Edition, 2015, 54, 7711-7715.	13.8	55
15	O-GlcNAc modification of small heat shock proteins enhances their anti-amyloid chaperone activity. Nature Chemistry, 2021, 13, 441-450.	13.6	54
16	Generation of Live-Cell Microarrays by Means of DNA-Directed Immobilization of Specific Cell-Surface Ligands. Angewandte Chemie - International Edition, 2007, 46, 4180-4183.	13.8	53
17	Labeling and Natural Post-Translational Modification of Peptides and Proteins via Chemoselective Pd-Catalyzed Prenylation of Cysteine. Journal of the American Chemical Society, 2019, 141, 14931-14937.	13.7	48
18	Chemical synthesis and semisynthesis of membrane proteins. Molecular BioSystems, 2008, 4, 733.	2.9	47

#	Article	IF	CITATIONS
19	Chemical Synthesis and Single Channel Properties of Tetrameric and Pentameric TASPs (Template-assembled Synthetic Proteins) Derived from the Transmembrane Domain of HIV Virus Protein u (Vpu). Journal of Biological Chemistry, 2004, 279, 17483-17489.	3.4	46
20	Direct Readout of Protein-Protein Interactions by Mass Spectrometry from Protein-DNA Microarrays. Angewandte Chemie - International Edition, 2005, 44, 7635-7639.	13.8	43
21	Surface immobilization of biomolecules by click sulfonamide reaction. Chemical Communications, 2008, , 3723.	4.1	42
22	Modified silaffin R5 peptides enable encapsulation and release of cargo molecules from biomimetic silica particles. Bioorganic and Medicinal Chemistry, 2013, 21, 3533-3541.	3.0	42
23	Conformational Selection in Substrate Recognition by Hsp70 Chaperones. Journal of Molecular Biology, 2013, 425, 466-474.	4.2	38
24	Single Posttranslational Modifications in the Central Repeat Domains of Tau4 Impact its Aggregation and Tubulin Binding. Angewandte Chemie - International Edition, 2019, 58, 1616-1620.	13.8	38
25	Incorporation of spin-labelled amino acids into proteins. Magnetic Resonance in Chemistry, 2005, 43, S34-S39.	1.9	37
26	Site-Specific Attachment of Polyethylene Glycol-like Oligomers to Proteins and Peptides. Bioconjugate Chemistry, 2006, 17, 1492-1498.	3.6	35
27	Exploring the effect of native and artificial peptide modifications on silaffin induced silica precipitation. Chemical Science, 2012, 3, 3500.	7.4	31
28	Recent Advances in Peptide-Based Approaches for Cancer Treatment. Current Medicinal Chemistry, 2020, 27, 1174-1205.	2.4	30
29	MALDI TOF/TOF-Based Approach for the Identification of <scp>d</scp> - Amino Acids in Biologically Active Peptides and Proteins. Journal of Proteome Research, 2016, 15, 1487-1496.	3.7	29
30	Monitoring the real-time kinetics of the hydrolysis reaction of guanine nucleotide-binding proteins. Biological Chemistry, 2005, 386, 1105-14.	2.5	27
31	A C-terminal Membrane Anchor Affects the Interactions of Prion Proteins with Lipid Membranes. Journal of Biological Chemistry, 2014, 289, 30144-30160.	3.4	27
32	Immobilising proteins on silica with site-specifically attached modified silaffin peptides. Biomaterials Science, 2015, 3, 288-297.	5.4	26
33	Atomicâ€Level Quality Assessment of Enzymes Encapsulated in Bioinspired Silica. Chemistry - A European Journal, 2016, 22, 425-432.	3.3	25
34	On-Resin Assembly of a Linkerless Lanthanide(III)-Based Luminescence Label and Its Application to the Total Synthesis of Site-Specifically Labeled Mechanosensitive Channels. Bioconjugate Chemistry, 2004, 15, 1118-1124.	3.6	24
35	Functional Immobilization of the Small GTPase Rab6A on DNA–Gold Nanoparticles by Using a Site-Specifically Attached Poly(ethylene glycol) Linker and Thiol Place-Exchange Reaction. ChemBioChem, 2007, 8, 32-36.	2.6	24
36	Random coil shifts of posttranslationally modified amino acids. Journal of Biomolecular NMR, 2019, 73, 587-599.	2.8	24

CHRISTIAN FW BECKER

#	Article	IF	CITATIONS
37	A quantitative and site-specific chemoenzymatic glycosylation approach for PEGylated MUC1 peptides. Chemical Science, 2014, 5, 1634.	7.4	23
38	C-Terminal Fluorescence Labeling of Proteins for Interaction Studies on the Single-Molecule Level. ChemBioChem, 2006, 7, 891-895.	2.6	22
39	A sensitive fluorescence monitor for the detection of activated Ras: total chemical synthesis of site-specifically labeled Ras binding domain of c-Raf1 immobilized on a surface. Chemistry and Biology, 2001, 8, 243-252.	6.0	21
40	Chemical synthesis and characterization of elastinâ€like polypeptides (ELPs) with variable guest residues. Journal of Peptide Science, 2016, 22, 334-342.	1.4	21
41	Arginine side-chain modification that occurs during copper-catalysed azide–alkyne click reactions resembles an advanced glycation end product. Organic and Biomolecular Chemistry, 2016, 14, 6205-6211.	2.8	21
42	Biomimetic and biopolymer-based enzyme encapsulation. Enzyme and Microbial Technology, 2021, 150, 109864.	3.2	21
43	Assembly of a transmembrane b-Type cytochrome is mainly driven by transmembrane helix interactions. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1815-1822.	2.6	20
44	Protein immobilization on liposomes and lipidâ€coated nanoparticles by protein <i>trans</i> â€splicing. Journal of Peptide Science, 2010, 16, 582-588.	1.4	20
45	Expressed Protein Selenoester Ligation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
46	Impaired Chaperone Activity of Human Heat Shock Protein Hsp27 Siteâ€Specifically Modified with Argpyrimidine. Angewandte Chemie - International Edition, 2016, 55, 11397-11402.	13.8	19
47	A peptide extension dictates IgM assembly. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8575-E8584.	7.1	19
48	Semisynthetic prion protein (PrP) variants carrying glycan mimics at position 181 and 197 do not form fibrils. Chemical Science, 2017, 8, 6626-6632.	7.4	19
49	Chemical Synthesis and Semisynthesis of Lipidated Proteins. Angewandte Chemie - International Edition, 2022, 61, e202111266.	13.8	19
50	Multifunctional α _v β ₆ Integrin-Specific Peptide–Pt(IV) Conjugates for Cancer Cell Targeting. Bioconjugate Chemistry, 2017, 28, 2429-2439.	3.6	18
51	SDS-Facilitated In vitro Formation of a Transmembrane B-Type Cytochrome Is Mediated by Changes in Local pH. Journal of Molecular Biology, 2011, 407, 594-606.	4.2	17
52	Utility of the Phenacyl Protecting Group in Traceless Protein Semisynthesis through Ligation–Desulfurization Chemistry. ChemistryOpen, 2018, 7, 106-110.	1.9	16
53	Conversion of a Mechanosensitive Channel Protein from a Membrane-embedded to a Water-soluble Form by Covalent Modification with Amphiphiles. Journal of Molecular Biology, 2004, 343, 747-758.	4.2	15
54	Continuous Flow Reactors from Microfluidic Compartmentalization of Enzymes within Inorganic Microparticles. ACS Applied Materials & amp; Interfaces, 2020, 12, 32951-32960.	8.0	15

CHRISTIAN FW BECKER

#	Article	IF	CITATIONS
55	Chapter 9 Semisynthesis of Membraneâ€Attached Prion Proteins. Methods in Enzymology, 2009, 462, 177-193.	1.0	13
56	Efficient generation of peptide hydrazides via direct hydrazinolysis of Peptidylâ€Wangâ€TentaGel resins. Journal of Peptide Science, 2015, 21, 201-207.	1.4	13
57	A dual functional peptide-auxiliary conjugate for C-to-N and N-to-C sequential native chemical ligation of glycopeptides. Bioorganic and Medicinal Chemistry, 2017, 25, 5016-5021.	3.0	13
58	Synthesis of a CPI anchor module suitable for protein postâ€ŧranslational modification. Biopolymers, 2010, 94, 457-464.	2.4	12
59	Protein–DNA Arrays as Tools for Detection of Protein–Protein Interactions by Mass Spectrometry. ChemBioChem, 2013, 14, 92-99.	2.6	11
60	Single Posttranslational Modifications in the Central Repeat Domains of Tau4 Impact its Aggregation and Tubulin Binding. Angewandte Chemie, 2019, 131, 1630-1634.	2.0	11
61	Alum triggers infiltration of human neutrophils ex vivo and causes lysosomal destabilization and mitochondrial membrane potentialâ€dependent NETâ€formation. FASEB Journal, 2020, 34, 14024-14041.	0.5	11
62	Multi-scale microporous silica microcapsules from gas-in water-in oil emulsions. Soft Matter, 2020, 16, 3082-3087.	2.7	11
63	Chemical Synthesis Approaches to the Engineering of Ion Channels. Protein and Peptide Letters, 2005, 12, 737-741.	0.9	10
64	Photocontrol of STAT6 dimerization and translocation. Molecular BioSystems, 2010, 6, 2423.	2.9	10
65	Studying Weak and Dynamic Interactions of Posttranslationally Modified Proteins using Expressed Protein Ligation. ACS Chemical Biology, 2014, 9, 347-352.	3.4	10
66	Synthetic integrin-binding immune stimulators target cancer cells and prevent tumor formation. Scientific Reports, 2017, 7, 17592.	3.3	9
67	Ovalbumin Epitope SIINFEKL Self-Assembles into a Supramolecular Hydrogel. Scientific Reports, 2019, 9, 2696.	3.3	9
68	Segmental and site-specific isotope labelling strategies for structural analysis of posttranslationally modified proteins. RSC Chemical Biology, 2021, 2, 1441-1461.	4.1	9
69	Synthesis of 2′-lodo- and 2′-Bromo-ATP and GTP Analogues as Potential Phasing Tools for X-ray Crystallography. Nucleosides & Nucleotides, 1999, 18, 137-151.	0.5	8
70	N-terminal residues of silaffin peptides impact morphology of biomimetic silica particles. Materials Letters, 2018, 212, 114-117.	2.6	8
71	Silica particles with a quercetin–R5 peptide conjugate are taken up into HT-29 cells and translocate into the nucleus. Chemical Communications, 2019, 55, 9649-9652.	4.1	8
72	Design, synthesis, and conformational studies of [DOTA]â€Octreotide analogs containing [1,2,3]triazolyl as a disulfide mimetic. Peptide Science, 2018, 110, e24071.	1.8	7

#	Article	IF	CITATIONS
73	Prion protein—Semisynthetic prion protein (PrP) variants with posttranslational modifications. Journal of Peptide Science, 2019, 25, e3216.	1.4	7
74	Site-specific modification and segmental isotope labelling of HMGN1 reveals long-range conformational perturbations caused by posttranslational modifications. RSC Chemical Biology, 2021, 2, 537-550.	4.1	7
75	Semisynthesis of H-Ras with a glutamic acid methylester at position 61. Biopolymers, 2008, 90, 399-405.	2.4	6
76	Recombinant expression of soluble murine prion protein for Câ€ŧerminal modification. FEBS Letters, 2013, 587, 430-435.	2.8	6
77	Silaffinâ€Inspired Peptide Assemblies Template Silica Particles with Variable Morphologies. ChemNanoMat, 2018, 4, 1209-1213.	2.8	6
78	Rapid Production of Functionalized Recombinant Proteins:  Marrying Ligation Independent Cloning and in Vitro Protein Ligation. Bioconjugate Chemistry, 2006, 17, 610-617.	3.6	5
79	Molecular dynamics simulations and conductance studies of the interaction of VP1 N-terminus from Polio virus and gp41 fusion peptide from HIV-1 with lipid membranes. Molecular Membrane Biology, 2012, 29, 9-25.	2.0	5
80	Impaired Chaperone Activity of Human Heat Shock Protein Hsp27 Siteâ€Specifically Modified with Argpyrimidine. Angewandte Chemie, 2016, 128, 11569-11574.	2.0	5
81	A comparative study of synthetic and semisynthetic approaches for ligating the epidermal growth factor to a bivalent scaffold. Journal of Peptide Science, 2017, 23, 871-879.	1.4	5
82	Synthetic Cancerâ€Targeting Innate Immune Stimulators Give Insights into Avidity Effects. ChemBioChem, 2018, 19, 459-469.	2.6	5
83	Synthetic Approach to Argpyrimidine as a Tool for Investigating Nonenzymatic Posttranslational Modification of Proteins. Synlett, 2017, 28, 1950-1955.	1.8	4
84	Cytoskeleton-dependent clustering of membrane-bound prion protein on the cell surface. Journal of Biological Chemistry, 2021, 296, 100359.	3.4	4
85	Probing Ras Effector Interactions on Nanoparticle Supported Lipid Bilayers. Bioconjugate Chemistry, 2008, 19, 1938-1944.	3.6	3
86	Multifunctional Scaffolds for Assembling Cancer-Targeting Immune Stimulators Using Chemoselective Ligations. Frontiers in Chemistry, 2019, 7, 113.	3.6	3
87	Biomimetic Silica Encapsulation of Lipid Nanodiscs and β-Sheet-Stabilized Diacylglycerol Kinase. Bioconjugate Chemistry, 2021, 32, 1742-1752.	3.6	3
88	Highly Precise Protein Semisynthesis through Ligation–Desulfurization Chemistry in Combination with Phenacyl Protection of Native Cysteines. Methods in Molecular Biology, 2020, 2133, 343-358.	0.9	3
89	Expressed Protein Selenoester Ligation. Angewandte Chemie, 0, , .	2.0	3
90	Semisynthesis of human thymidine monophosphate kinase. Biopolymers, 2010, 94, 433-440.	2.4	2

CHRISTIAN FW BECKER

#	Article	IF	CITATIONS
91	Chemical protein synthesis. Journal of Peptide Science, 2014, 20, 63-63.	1.4	2
92	Semisynthesis of Membrane-Attached Proteins Using Split Inteins. Methods in Molecular Biology, 2017, 1495, 93-109.	0.9	2
93	Just a spoonful of sugar: Short glycans affect protein properties and functions. Journal of Peptide Science, 2019, 25, e3167.	1.4	2
94	Mannosylated hemagglutinin peptides bind cyanovirin-N independent of disulfide-bonds in complementary binding sites. RSC Advances, 2020, 10, 11079-11087.	3.6	2
95	Chemical Synthesis and Semisynthesis of Lipidated Proteins. Angewandte Chemie, 0, , .	2.0	2
96	Chemical Synthesis of an Integral Membrane Enzyme — The Challenges of Diacylglycerol Kinase. Israel Journal of Chemistry, 2011, 51, 930-939.	2.3	1
97	Finding the best ligase. Nature Chemical Biology, 2018, 14, 2-3.	8.0	1
98	Tumor-Targeting Immune System Engagers (ISErs) Activate Human Neutrophils after Binding to Cancer Cells. Biochemistry, 2019, 58, 2642-2652.	2.5	1
99	Genome Mining-Based Discovery of Blenny Fish-Derived Peptides Targeting the Mouse κ-Opioid Receptor. Frontiers in Pharmacology, 2021, 12, 773029.	3.5	1
100	Protein Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry. , 2006, , 725-727.		0
101	Size Matters: Side Chain Length Affects SH2 Substrate Binding. Chemistry and Biology, 2010, 17, 211-212.	6.0	0
102	Ambiguous Origin: Two Sides of an Ephrin Receptor Tyrosine Kinase. Chemistry and Biology, 2011, 18, 279-281.	6.0	0
103	Titelbild: Impaired Chaperone Activity of Human Heat Shock Protein Hsp27 Siteâ€Specifically Modified with Argpyrimidine (Angew. Chem. 38/2016). Angewandte Chemie, 2016, 128, 11473-11473.	2.0	0
104	Peptide & protein ligation. Bioorganic and Medicinal Chemistry, 2017, 25, 4925.	3.0	0
105	Protein Chemistry Looking Ahead: 8th Chemical Protein Synthesis Meeting 16-19 June 2019, Berlin, Germany. Cell Chemical Biology, 2019, 26, 1349-1354.	5.2	Ο