

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

105
papers

3,106
citations

185998

28
h-index

174990

52
g-index

118
all docs

118
docs citations

118
times ranked

3961
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Synthesis and Semisynthesis of Lipidated Proteins. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202111266.	7.2	19
2	Expressed Protein Selenoester Ligation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	20
3	Cytoskeleton-dependent clustering of membrane-bound prion protein on the cell surface. <i>Journal of Biological Chemistry</i> , 2021, 296, 100359.	1.6	4
4	Segmental and site-specific isotope labelling strategies for structural analysis of posttranslationally modified proteins. <i>RSC Chemical Biology</i> , 2021, 2, 1441-1461.	2.0	9
5	Site-specific modification and segmental isotope labelling of HMGN1 reveals long-range conformational perturbations caused by posttranslational modifications. <i>RSC Chemical Biology</i> , 2021, 2, 537-550.	2.0	7
6	O-GlcNAc modification of small heat shock proteins enhances their anti-amyloid chaperone activity. <i>Nature Chemistry</i> , 2021, 13, 441-450.	6.6	54
7	Biomimetic Silica Encapsulation of Lipid Nanodiscs and β -Sheet-Stabilized Diacylglycerol Kinase. <i>Bioconjugate Chemistry</i> , 2021, 32, 1742-1752.	1.8	3
8	Biomimetic and biopolymer-based enzyme encapsulation. <i>Enzyme and Microbial Technology</i> , 2021, 150, 109864.	1.6	21
9	Genome Mining-Based Discovery of Blenny Fish-Derived Peptides Targeting the Mouse μ -Opioid Receptor. <i>Frontiers in Pharmacology</i> , 2021, 12, 773029.	1.6	1
10	Alum triggers infiltration of human neutrophils ex vivo and causes lysosomal destabilization and mitochondrial membrane potential-dependent NET formation. <i>FASEB Journal</i> , 2020, 34, 14024-14041.	0.2	11
11	Multi-scale microporous silica microcapsules from gas-in water-in oil emulsions. <i>Soft Matter</i> , 2020, 16, 3082-3087.	1.2	11
12	Mannosylated hemagglutinin peptides bind cyanovirin-N independent of disulfide-bonds in complementary binding sites. <i>RSC Advances</i> , 2020, 10, 11079-11087.	1.7	2
13	Continuous Flow Reactors from Microfluidic Compartmentalization of Enzymes within Inorganic Microparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32951-32960.	4.0	15
14	Recent Advances in Peptide-Based Approaches for Cancer Treatment. <i>Current Medicinal Chemistry</i> , 2020, 27, 1174-1205.	1.2	30
15	Highly Precise Protein Semisynthesis through Ligation-Desulfurization Chemistry in Combination with Phenacyl Protection of Native Cysteines. <i>Methods in Molecular Biology</i> , 2020, 2133, 343-358.	0.4	3
16	Silica particles with a quercetin-R5 peptide conjugate are taken up into HT-29 cells and translocate into the nucleus. <i>Chemical Communications</i> , 2019, 55, 9649-9652.	2.2	8
17	Random coil shifts of posttranslationally modified amino acids. <i>Journal of Biomolecular NMR</i> , 2019, 73, 587-599.	1.6	24
18	Protein Chemistry Looking Ahead: 8th Chemical Protein Synthesis Meeting 16-19 June 2019, Berlin, Germany. <i>Cell Chemical Biology</i> , 2019, 26, 1349-1354.	2.5	0

#	ARTICLE	IF	CITATIONS
19	Prion proteinâ€”Semisynthetic prion protein (PrP) variants with posttranslational modifications. <i>Journal of Peptide Science</i> , 2019, 25, e3216.	0.8	7
20	Labeling and Natural Post-Translational Modification of Peptides and Proteins via Chemoselective Pd-Catalyzed Prenylation of Cysteine. <i>Journal of the American Chemical Society</i> , 2019, 141, 14931-14937.	6.6	48
21	Tumor-Targeting Immune System Engagers (ISERs) Activate Human Neutrophils after Binding to Cancer Cells. <i>Biochemistry</i> , 2019, 58, 2642-2652.	1.2	1
22	Multifunctional Scaffolds for Assembling Cancer-Targeting Immune Stimulators Using Chemoselective Ligations. <i>Frontiers in Chemistry</i> , 2019, 7, 113.	1.8	3
23	Just a spoonful of sugar: Short glycans affect protein properties and functions. <i>Journal of Peptide Science</i> , 2019, 25, e3167.	0.8	2
24	Ovalbumin Epitope SIINFELK Self-Assembles into a Supramolecular Hydrogel. <i>Scientific Reports</i> , 2019, 9, 2696.	1.6	9
25	Single Posttranslational Modifications in the Central Repeat Domains of Tau4 Impact its Aggregation and Tubulin Binding. <i>Angewandte Chemie</i> , 2019, 131, 1630-1634.	1.6	11
26	Single Posttranslational Modifications in the Central Repeat Domains of Tau4 Impact its Aggregation and Tubulin Binding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1616-1620.	7.2	38
27	Utility of the Phenacyl Protecting Group in Traceless Protein Semisynthesis through Ligationâ€”Desulfurization Chemistry. <i>ChemistryOpen</i> , 2018, 7, 106-110.	0.9	16
28	Synthetic Cancerâ€”Targeting Innate Immune Stimulators Give Insights into Avidity Effects. <i>ChemBioChem</i> , 2018, 19, 459-469.	1.3	5
29	N-terminal residues of silaffin peptides impact morphology of biomimetic silica particles. <i>Materials Letters</i> , 2018, 212, 114-117.	1.3	8
30	Finding the best ligase. <i>Nature Chemical Biology</i> , 2018, 14, 2-3.	3.9	1
31	Native chemical ligation in protein synthesis and semi-synthesis. <i>Chemical Society Reviews</i> , 2018, 47, 9046-9068.	18.7	232
32	Silaffinâ€”Inspired Peptide Assemblies Template Silica Particles with Variable Morphologies. <i>ChemNanoMat</i> , 2018, 4, 1209-1213.	1.5	6
33	Design, synthesis, and conformational studies of [DOTA]â€”Octreotide analogs containing [1,2,3]triazolyl as a disulfide mimetic. <i>Peptide Science</i> , 2018, 110, e24071.	1.0	7
34	Synthetic Approach to Argpyrimidine as a Tool for Investigating Nonenzymatic Posttranslational Modification of Proteins. <i>Synlett</i> , 2017, 28, 1950-1955.	1.0	4
35	A dual functional peptide-auxiliary conjugate for C-to-N and N-to-C sequential native chemical ligation of glycopeptides. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5016-5021.	1.4	13
36	A peptide extension dictates IgM assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8575-E8584.	3.3	19

#	ARTICLE	IF	CITATIONS
37	Peptide & protein ligation. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4925.	1.4	0
38	Semisynthetic prion protein (PrP) variants carrying glycan mimics at position 181 and 197 do not form fibrils. <i>Chemical Science</i> , 2017, 8, 6626-6632.	3.7	19
39	Multifunctional Pt(IV) Integrin-Specific Peptide-Pt(IV) Conjugates for Cancer Cell Targeting. <i>Bioconjugate Chemistry</i> , 2017, 28, 2429-2439.	1.8	18
40	Synthetic integrin-binding immune stimulators target cancer cells and prevent tumor formation. <i>Scientific Reports</i> , 2017, 7, 17592.	1.6	9
41	A comparative study of synthetic and semisynthetic approaches for ligating the epidermal growth factor to a bivalent scaffold. <i>Journal of Peptide Science</i> , 2017, 23, 871-879.	0.8	5
42	Semisynthesis of Membrane-Attached Proteins Using Split Inteins. <i>Methods in Molecular Biology</i> , 2017, 1495, 93-109.	0.4	2
43	Chemical synthesis and characterization of elastin-like polypeptides (ELPs) with variable guest residues. <i>Journal of Peptide Science</i> , 2016, 22, 334-342.	0.8	21
44	Titelbild: Impaired Chaperone Activity of Human Heat Shock Protein Hsp27 Site-Specifically Modified with Argpyrimidine (<i>Angew. Chem.</i> 38/2016). <i>Angewandte Chemie</i> , 2016, 128, 11473-11473.	1.6	0
45	Atomic-Level Quality Assessment of Enzymes Encapsulated in Bioinspired Silica. <i>Chemistry - A European Journal</i> , 2016, 22, 425-432.	1.7	25
46	Impaired Chaperone Activity of Human Heat Shock Protein Hsp27 Site-Specifically Modified with Argpyrimidine. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11397-11402.	7.2	19
47	Impaired Chaperone Activity of Human Heat Shock Protein Hsp27 Site-Specifically Modified with Argpyrimidine. <i>Angewandte Chemie</i> , 2016, 128, 11569-11574.	1.6	5
48	Arginine side-chain modification that occurs during copper-catalysed azide-alkyne click reactions resembles an advanced glycation end product. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6205-6211.	1.5	21
49	MALDI TOF/TOF-Based Approach for the Identification of D -Amino Acids in Biologically Active Peptides and Proteins. <i>Journal of Proteome Research</i> , 2016, 15, 1487-1496.	1.8	29
50	A PEGylated Photocleavable Auxiliary Mediates the Sequential Enzymatic Glycosylation and Native Chemical Ligation of Peptides. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7711-7715.	7.2	55
51	Silaffins in Silica Biomineralization and Biomimetic Silica Precipitation. <i>Marine Drugs</i> , 2015, 13, 5297-5333.	2.2	96
52	Efficient generation of peptide hydrazides via direct hydrazinolysis of Peptidyl Wang Tentacle resins. <i>Journal of Peptide Science</i> , 2015, 21, 201-207.	0.8	13
53	Immobilising proteins on silica with site-specifically attached modified silaffin peptides. <i>Biomaterials Science</i> , 2015, 3, 288-297.	2.6	26
54	Chemical protein synthesis. <i>Journal of Peptide Science</i> , 2014, 20, 63-63.	0.8	2

#	ARTICLE	IF	CITATIONS
55	A sequence-function analysis of the silica precipitating silaffin R5 peptide. <i>Journal of Peptide Science</i> , 2014, 20, 152-158.	0.8	60
56	A C-terminal Membrane Anchor Affects the Interactions of Prion Proteins with Lipid Membranes. <i>Journal of Biological Chemistry</i> , 2014, 289, 30144-30160.	1.6	27
57	A quantitative and site-specific chemoenzymatic glycosylation approach for PEGylated MUC1 peptides. <i>Chemical Science</i> , 2014, 5, 1634.	3.7	23
58	Studying Weak and Dynamic Interactions of Posttranslationally Modified Proteins using Expressed Protein Ligation. <i>ACS Chemical Biology</i> , 2014, 9, 347-352.	1.6	10
59	An acetylome peptide microarray reveals specificities and deacetylation substrates for all human sirtuin isoforms. <i>Nature Communications</i> , 2013, 4, 2327.	5.8	179
60	Recombinant expression of soluble murine prion protein for C-terminal modification. <i>FEBS Letters</i> , 2013, 587, 430-435.	1.3	6
61	Protein-DNA Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry. <i>ChemBioChem</i> , 2013, 14, 92-99.	1.3	11
62	Modified silaffin R5 peptides enable encapsulation and release of cargo molecules from biomimetic silica particles. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3533-3541.	1.4	42
63	Conformational Selection in Substrate Recognition by Hsp70 Chaperones. <i>Journal of Molecular Biology</i> , 2013, 425, 466-474.	2.0	38
64	One-shot NMR analysis of microbial secretions identifies highly potent proteasome inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18367-18371.	3.3	58
65	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. <i>Molecular Membrane Biology</i> , 2012, 29, 9-25.	2.0	5
66	Exploring the effect of native and artificial peptide modifications on silaffin induced silica precipitation. <i>Chemical Science</i> , 2012, 3, 3500.	3.7	31
67	SDS-Facilitated In vitro Formation of a Transmembrane B-Type Cytochrome Is Mediated by Changes in Local pH. <i>Journal of Molecular Biology</i> , 2011, 407, 594-606.	2.0	17
68	Chemical Synthesis of an Integral Membrane Enzyme - The Challenges of Diacylglycerol Kinase. <i>Israel Journal of Chemistry</i> , 2011, 51, 930-939.	1.0	1
69	Total Chemical Synthesis of an Integral Membrane Enzyme: Diacylglycerol Kinase from <i>Escherichia coli</i> . <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3988-3992.	7.2	61
70	Ambiguous Origin: Two Sides of an Ephrin Receptor Tyrosine Kinase. <i>Chemistry and Biology</i> , 2011, 18, 279-281.	6.2	0
71	Synthesis of a GPI anchor module suitable for protein post-translational modification. <i>Biopolymers</i> , 2010, 94, 457-464.	1.2	12
72	Semisynthesis of human thymidine monophosphate kinase. <i>Biopolymers</i> , 2010, 94, 433-440.	1.2	2

#	ARTICLE	IF	CITATIONS
73	Size Matters: Side Chain Length Affects SH2 Substrate Binding. <i>Chemistry and Biology</i> , 2010, 17, 211-212.	6.2	0
74	Protein immobilization on liposomes and lipid-coated nanoparticles by protein trans-splicing. <i>Journal of Peptide Science</i> , 2010, 16, 582-588.	0.8	20
75	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. <i>Nature Chemical Biology</i> , 2010, 6, 46-53.	3.9	88
76	Photocontrol of STAT6 dimerization and translocation. <i>Molecular BioSystems</i> , 2010, 6, 2423.	2.9	10
77	Chapter 9 Semisynthesis of Membrane-Attached Prion Proteins. <i>Methods in Enzymology</i> , 2009, 462, 177-193.	0.4	13
78	Semisynthesis of H-Ras with a glutamic acid methylester at position 61. <i>Biopolymers</i> , 2008, 90, 399-405.	1.2	6
79	Semisynthesis of a Glycosylphosphatidylinositol-Anchored Prion Protein. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8215-8219.	7.2	93
80	Green tea extracts interfere with the stress-protective activity of PrP ^C and the formation of PrP ^{Sc} . <i>Journal of Neurochemistry</i> , 2008, 107, 218-229.	2.1	64
81	Surface immobilization of biomolecules by click sulfonamide reaction. <i>Chemical Communications</i> , 2008, , 3723.	2.2	42
82	Chemical synthesis and semisynthesis of membrane proteins. <i>Molecular BioSystems</i> , 2008, 4, 733.	2.9	47
83	Substrates and Regulation Mechanisms for the Human Mitochondrial Sirtuins Sirt3 and Sirt5. <i>Journal of Molecular Biology</i> , 2008, 382, 790-801.	2.0	474
84	Probing Ras Effector Interactions on Nanoparticle Supported Lipid Bilayers. <i>Bioconjugate Chemistry</i> , 2008, 19, 1938-1944.	1.8	3
85	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. <i>ChemBioChem</i> , 2007, 8, 32-36.	1.3	24
86	Generation of Live-Cell Microarrays by Means of DNA-Directed Immobilization of Specific Cell-Surface Ligands. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4180-4183.	7.2	53
87	Semisynthetic Murine Prion Protein Equipped with a GPI Anchor Mimic Incorporates into Cellular Membranes. <i>Chemistry and Biology</i> , 2007, 14, 994-1006.	6.2	56
88	Site-Specific Attachment of Polyethylene Glycol-like Oligomers to Proteins and Peptides. <i>Bioconjugate Chemistry</i> , 2006, 17, 1492-1498.	1.8	35
89	Rapid Production of Functionalized Recombinant Proteins: Marrying Ligation Independent Cloning and in Vitro Protein Ligation. <i>Bioconjugate Chemistry</i> , 2006, 17, 610-617.	1.8	5
90	Assembly of a transmembrane b-Type cytochrome is mainly driven by transmembrane helix interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1815-1822.	1.4	20

#	ARTICLE	IF	CITATIONS
91	Protein Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry. , 2006, , 725-727.		0
92	C-Terminal Fluorescence Labeling of Proteins for Interaction Studies on the Single-Molecule Level. ChemBioChem, 2006, 7, 891-895.	1.3	22
93	Protein semi-synthesis: New proteins for functional and structural studies. New Biotechnology, 2005, 22, 153-172.	2.7	63
94	Direct Readout of Protein-Protein Interactions by Mass Spectrometry from Protein-DNA Microarrays. Angewandte Chemie - International Edition, 2005, 44, 7635-7639.	7.2	43
95	Incorporation of spin-labelled amino acids into proteins. Magnetic Resonance in Chemistry, 2005, 43, S34-S39.	1.1	37
96	Chemical Synthesis Approaches to the Engineering of Ion Channels. Protein and Peptide Letters, 2005, 12, 737-741.	0.4	10
97	Monitoring the real-time kinetics of the hydrolysis reaction of guanine nucleotide-binding proteins. Biological Chemistry, 2005, 386, 1105-14.	1.2	27
98	Chemical Synthesis and Single Channel Properties of Tetrameric and Pentameric TASP (Template-assembled Synthetic Proteins) Derived from the Transmembrane Domain of HIV Virus Protein u (Vpu). Journal of Biological Chemistry, 2004, 279, 17483-17489.	1.6	46
99	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.	1.8	24
100	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.	2.0	15
101	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.	3.3	57
102	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.	6.2	21
103	Synthesis of 2-iodo- and 2-bromo-ATP and GTP Analogues as Potential Phasing Tools for X-ray Crystallography. Nucleosides & Nucleotides, 1999, 18, 137-151.	0.5	8
104	Chemical Synthesis and Semisynthesis of Lipidated Proteins. Angewandte Chemie, 0, , .	1.6	2
105	Expressed Protein Selenoester Ligation. Angewandte Chemie, 0, , .	1.6	3