

# Christian Heinis

## 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.

81  
papers

3,919  
citations

32  
h-index

62  
g-index

93  
ext. papers

4,580  
ext. citations

7.2  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
81	Cys-Cys and Cys-Lys Stapling of Unprotected Peptides Enabled by Hypervalent Iodine Reagents. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9104-9113	3.6	8
80	Cys-Cys and Cys-Lys Stapling of Unprotected Peptides Enabled by Hypervalent Iodine Reagents. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9022-9031	16.4	17
79	-Evolved Peptides Bind Monomeric Actin and Mimic Actin-Binding Protein Thymosin- $\beta$ 4. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 820-828	4.9	2
78	Combination of polycarboxybetaine coating and factor XII inhibitor reduces clot formation while preserving normal tissue coagulation during extracorporeal life support. <i>Biomaterials</i> , <b>2021</b> , 272, 120778	15.6	5
77	Development of Selective FXIa Inhibitors Based on Cyclic Peptides and Their Application for Safe Anticoagulation. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 6802-6813	8.3	2
76	Towards the Development of Orally Available Peptide Therapeutics. <i>Chimia</i> , <b>2021</b> , 75, 514-517	1.3	2
75	Combining biological and chemical diversity. <i>Nature Chemistry</i> , <b>2021</b> , 13, 512-513	17.6	0
74	Tissue Factor-Independent Coagulation Correlates with Clinical Phenotype in Factor XI Deficiency and Replacement Therapy. <i>Thrombosis and Haemostasis</i> , <b>2021</b> , 121, 150-163	7	3
73	Picomole-Scale Synthesis and Screening of Macrocyclic Compound Libraries by Acoustic Liquid Transfer. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21702-21707	16.4	3
72	Picomole-Scale Synthesis and Screening of Macrocyclic Compound Libraries by Acoustic Liquid Transfer. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21870-21875	3.6	2
71	De novo development of proteolytically resistant therapeutic peptides for oral administration. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 560-571	19	39
70	Macrocyclic synthesis strategy based on step-wise "adding and reacting" three components enables screening of large combinatorial libraries. <i>Chemical Science</i> , <b>2020</b> , 11, 7858-7863	9.4	7
69	A releasable disulfide-linked peptide tag facilitates the synthesis and purification of short peptides. <i>Chemical Communications</i> , <b>2020</b> , 56, 2917-2920	5.8	2
68	Cyclic peptide FXII inhibitor provides safe anticoagulation in a thrombosis model and in artificial lungs. <i>Nature Communications</i> , <b>2020</b> , 11, 3890	17.4	23
67	Generation of a Large Peptide Phage Display Library by Self-Ligation of Whole-Plasmid PCR Product. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 2907-2915	4.9	3
66	Synthesis of DNA-Encoded Disulfide- and Thioether-Cyclized Peptides. <i>ChemBioChem</i> , <b>2020</b> , 21, 543-549	3.8	9
65	Thiol-to-amine cyclization reaction enables screening of large libraries of macrocyclic compounds and the generation of sub-kilodalton ligands. <i>Science Advances</i> , <b>2019</b> , 5, eaaw2851	14.3	16

64	Engineered Peptide Macrocycles Can Inhibit Matrix Metalloproteinases with High Selectivity. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11927-11931	3.6	3
63	Engineered Peptide Macrocycles Can Inhibit Matrix Metalloproteinases with High Selectivity. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11801-11805	16.4	13
62	Cyclization of peptides with two chemical bridges affords large scaffold diversities. <i>Nature Chemistry</i> , <b>2018</b> , 10, 715-723	17.6	72
61	Drugs Based on de -developed Peptides are Coming of Age mune is a. <i>Chimia</i> , <b>2018</b> , 72, 426-427	1.3	
60	The Partnership of DMCCB and LS□ <i>Chimia</i> , <b>2018</b> , 72, 817-818	1.3	0
59	Precisely Regulated and Efficient Locking of Linear Peptides into Stable Multicyclic Topologies through a One-Pot Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4458-4463	16.4	29
58	Cyclic peptide therapeutics: past, present and future. <i>Current Opinion in Chemical Biology</i> , <b>2017</b> , 38, 24-29	29.7	321
57	Precisely Regulated and Efficient Locking of Linear Peptides into Stable Multicyclic Topologies through a One-Pot Reaction. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4529-4534	3.6	11
56	Innenrücktitelbild: Precisely Regulated and Efficient Locking of Linear Peptides into Stable Multicyclic Topologies through a One-Pot Reaction (Angew. Chem. 16/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4701-4701	3.6	
55	Peptide Macrocycle Inhibitor of Coagulation Factor XII with Subnanomolar Affinity and High Target Selectivity. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 1151-1158	8.3	38
54	Polar Hinges as Functionalized Conformational Constraints in (Bi)cyclic Peptides. <i>ChemBioChem</i> , <b>2017</b> , 18, 387-395	3.8	13
53	Phage Selection of Cyclic Peptides for Application in Research and Drug Development. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1866-1874	24.3	81
52	Acylated heptapeptide binds albumin with high affinity and application as tag furnishes long-acting peptides. <i>Nature Communications</i> , <b>2017</b> , 8, 16092	17.4	67
51	Bypassing bacterial infection in phage display by sequencing DNA released from phage particles. <i>Protein Engineering, Design and Selection</i> , <b>2017</b> , 30, 761-768	1.9	1
50	Improving the Binding Affinity of in-Vitro-Evolved Cyclic Peptides by Inserting Atoms into the Macrocycle Backbone. <i>ChemBioChem</i> , <b>2016</b> , 17, 2299-2303	3.8	17
49	Phage Selection of Chemically Stabilized $\beta$ -Helical Peptide Ligands. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 1422-7	4.9	48
48	Phage Selection of Peptide Macrocycles against $\beta$ -Catenin To Interfere with Wnt Signaling. <i>ChemMedChem</i> , <b>2016</b> , 11, 834-9	3.7	24
47	Development of Potent and Selective <i>S. aureus</i> Sortase A Inhibitors Based on Peptide Macrocycles. <i>ACS Medicinal Chemistry Letters</i> , <b>2016</b> , 7, 606-11	4.3	25

46	Encoded libraries of chemically modified peptides. <i>Current Opinion in Chemical Biology</i> , <b>2015</b> , 26, 89-98	9.7	84
45	Bicyclic peptides conjugated to an albumin-binding tag diffuse efficiently into solid tumors. <i>Molecular Cancer Therapeutics</i> , <b>2015</b> , 14, 151-61	6.1	19
44	Phage Selection of Bicyclic Peptide Ligands of the Notch1 Receptor. <i>ChemMedChem</i> , <b>2015</b> , 10, 1754-61	3.7	23
43	A Synthetic Factor XIIa Inhibitor Blocks Selectively Intrinsic Coagulation Initiation. <i>ACS Chemical Biology</i> , <b>2015</b> , 10, 1861-70	4.9	53
42	Phage selection of bicyclic peptides based on two disulfide bridges. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1248, 119-37	1.4	14
41	Phage selection of photoswitchable peptide ligands. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 5880-3	16.4	55
40	Peptide ligands stabilized by small molecules. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1602-6	16.4	82
39	Dithiol amino acids can structurally shape and enhance the ligand-binding properties of polypeptides. <i>Nature Chemistry</i> , <b>2014</b> , 6, 1009-16	17.6	63
38	Tracking chemical reactions on the surface of filamentous phage using mass spectrometry. <i>Chemical Communications</i> , <b>2014</b> , 50, 5267-9	5.8	8
37	Drug discovery: tools and rules for macrocycles. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 696-8	11.7	88
36	Phage selection of bicyclic peptides binding Her2. <i>Tetrahedron</i> , <b>2014</b> , 70, 7733-7739	2.4	25
35	Peptide Ligands Stabilized by Small Molecules. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1628-1632	3.6	20
34	Identification of target-binding peptide motifs by high-throughput sequencing of phage-selected peptides. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, e169	20.1	42
33	Bicyclic peptide ligands pulled out of cysteine-rich peptide libraries. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6562-9	16.4	67
32	Phage selection of cyclic peptide antagonists with increased stability toward intestinal proteases. <i>Protein Engineering, Design and Selection</i> , <b>2013</b> , 26, 81-9	1.9	27
31	Phage selection of bicyclic peptides. <i>Methods</i> , <b>2013</b> , 60, 46-54	4.6	52
30	Improving binding affinity and stability of peptide ligands by substituting glycines with D-amino acids. <i>ChemBioChem</i> , <b>2013</b> , 14, 1316-22	3.8	43
29	Phage display libraries of differently sized bicyclic peptides. <i>MedChemComm</i> , <b>2013</b> , 4, 145-150	5	34

28	Development of a selective peptide macrocycle inhibitor of coagulation factor XII toward the generation of a safe antithrombotic therapy. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 3742-6	8.3	50
27	Pattern-based sensing of peptides and aminoglycosides with a single molecular probe. <i>Organic Letters</i> , <b>2013</b> , 15, 3456-9	6.2	14
26	Polycyclic peptide therapeutics. <i>ChemMedChem</i> , <b>2013</b> , 8, 377-84	3.7	50
25	Directed evolution of bicyclic peptides for therapeutic application. <i>Chimia</i> , <b>2013</b> , 67, 910-5	1.3	8
24	Bicyclization and tethering to albumin yields long-acting peptide antagonists. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 10187-97	8.3	35
23	Chemical macrocyclization of peptides fused to antibody Fc fragments. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 1856-63	6.3	22
22	Bicyclic peptide inhibitor reveals large contact interface with a protease target. <i>ACS Chemical Biology</i> , <b>2012</b> , 7, 817-21	4.9	133
21	Structurally diverse cyclisation linkers impose different backbone conformations in bicyclic peptides. <i>ChemBioChem</i> , <b>2012</b> , 13, 1032-8	3.8	70
20	Bicyclic peptides with optimized ring size inhibit human plasma kallikrein and its orthologues while sparing paralogous proteases. <i>ChemMedChem</i> , <b>2012</b> , 7, 1173-6	3.7	56
19	Boosting the sensitivity of ligand-protein screening by NMR of long-lived states. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11076-9	16.4	67
18	Measuring net protease activities in biological samples using selective peptidic inhibitors. <i>Analytical Biochemistry</i> , <b>2012</b> , 427, 18-20	3.1	5
17	Synthesis and photochemical properties of oligo-ortho-azobenzenes. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 9826-34	4.2	42
16	The 4 Young Faculty Meeting - Science and Funding in its Different Varieties. <i>Chimia</i> , <b>2011</b> , 65, 818-820	1.3	
15	Chemical biology approaches to membrane homeostasis and function. <i>Chimia</i> , <b>2011</b> , 65, 849-52	1.3	3
14	Bicyclic peptide antagonists derived from genetically encoded combinatorial libraries. <i>Chimia</i> , <b>2011</b> , 65, 677-9	1.3	4
13	Enzymatic cyclisation of peptides with a transglutaminase. <i>ChemBioChem</i> , <b>2011</b> , 12, 38-42	3.8	23
12	Post-translational modification of genetically encoded polypeptide libraries. <i>Current Opinion in Chemical Biology</i> , <b>2011</b> , 15, 355-61	9.7	24
11	Measuring in vivo protein half-life. <i>Chemistry and Biology</i> , <b>2011</b> , 18, 805-15		63

10	Screening of large molecule diversities by phage display. <i>Chimia</i> , <b>2011</b> , 65, 843-5	1.3	10
9	Using peptide loop insertion mutagenesis for the evolution of proteins. <i>Methods in Molecular Biology</i> , <b>2010</b> , 634, 217-32	1.4	4
8	Strategies to prolong the plasma residence time of peptidedrugs. <i>MedChemComm</i> , <b>2010</b> , 1, 319-324	5	112
7	Phage-encoded combinatorial chemical libraries based on bicyclic peptides. <i>Nature Chemical Biology</i> , <b>2009</b> , 5, 502-7	11.7	471
6	An engineered protein tag for multiprotein labeling in living cells. <i>Chemistry and Biology</i> , <b>2008</b> , 15, 128-36		750
5	Directed evolution of O6-alkylguanine-DNA alkyltransferase for applications in protein labeling. <i>Protein Engineering, Design and Selection</i> , <b>2006</b> , 19, 309-16	1.9	114
4	Evolving the substrate specificity of O6-alkylguanine-DNA alkyltransferase through loop insertion for applications in molecular imaging. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 575-84	4.9	23
3	Engineering substrate specificity of O6-alkylguanine-DNA alkyltransferase for specific protein labeling in living cells. <i>ChemBioChem</i> , <b>2005</b> , 6, 1263-9	3.8	55
2	Fast directed evolution of non-immunoglobulin proteins by somatic hypermutation in immune cells. <i>ChemBioChem</i> , <b>2005</b> , 6, 804-6	3.8	
1	Two general methods for the isolation of enzyme activities by colony filter screening. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 383-90		4