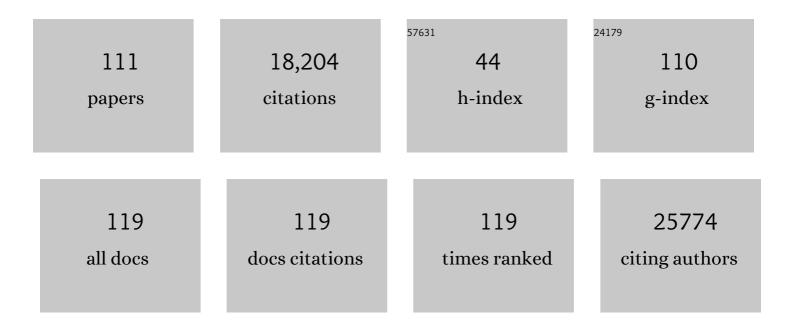
## **Thomas Huber**

List of Publications by Year in descending order

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THOMAS HURED

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Site-Specific Incorporation of 7-Fluoro- <scp>L</scp> -tryptophan into Proteins by Genetic Encoding to<br>Monitor Ligand Binding by <sup>19</sup> F NMR Spectroscopy. ACS Sensors, 2022, 7, 44-49.   | 4.0 | 9         |
| 2  | Genetic Encoding of Cyanopyridylalanine for In ell Protein Macrocyclization by the<br>Nitrile–Aminothiol Click Reaction. Angewandte Chemie - International Edition, 2022, 61, .  | 7.2 | 15        |
| 3  | Organoarsenic probes to study proteins by NMR spectroscopy. Chemical Communications, 2022, 58, 701-704.  | 2.2 | 1         |
| 4  | Cellâ€Free Synthesis of Selenoproteins in High Yield and Purity for Selective Protein Tagging.<br>ChemBioChem, 2021, 22, 1480-1486.  | 1.3 | 4         |
| 5  | Genetic Encoding of <i>N</i> <sup>6</sup> -(((Trimethylsilyl)methoxy)carbonyl)- <scp> </scp> -lysine for<br>NMR Studies of Protein–Protein and Protein–Ligand Interactions. Journal of the American Chemical<br>Society, 2021, 143, 1133-1143. | 6.6 | 18        |
| 6  | <i>In Vitro</i> Protein Synthesis in Semipermeable Artificial Cells. ACS Synthetic Biology, 2021, 10, 1237-1244.   | 1.9 | 8         |
| 7  | Through-Space Scalar <sup>19</sup> F– <sup>19</sup> F Couplings between Fluorinated Noncanonical<br>Amino Acids for the Detection of Specific Contacts in Proteins. Journal of the American Chemical<br>Society, 2021, 143, 19587-19598.       | 6.6 | 16        |
| 8  | Genetic Encoding of <i>para</i> -Pentafluorosulfanyl Phenylalanine: A Highly Hydrophobic and<br>Strongly Electronegative Group for Stable Protein Interactions. Journal of the American Chemical<br>Society, 2020, 142, 17277-17281.           | 6.6 | 22        |
| 9  | Macromolecular modeling and design in Rosetta: recent methods and frameworks. Nature Methods, 2020, 17, 665-680.   | 9.0 | 513       |
| 10 | Paramagpy: software for fitting magnetic susceptibility tensors using paramagnetic effects measured in NMR spectra. Magnetic Resonance, 2020, 1, 1-12.   | 0.8 | 33        |
| 11 | Three-Dimensional Protein Structure Determination Using Pseudocontact Shifts of Backbone Amide<br>Protons Generated by Double-Histidine Co <sup>2+</sup> -Binding Motifs at Multiple Sites.<br>Biochemistry, 2019, 58, 3243-3250.              | 1.2 | 10        |
| 12 | Probing the solution structure of the E. coli multidrug transporter MdfA using DEER distance measurements with nitroxide and Gd(III) spin labels. Scientific Reports, 2019, 9, 12528.  | 1.6 | 23        |
| 13 | Biocompatible Macrocyclization between Cysteine and 2-Cyanopyridine Generates Stable Peptide<br>Inhibitors. Organic Letters, 2019, 21, 4709-4712.  | 2.4 | 46        |
| 14 | Two Histidines in an αâ€Helix: A Rigid Co <sup>2+</sup> â€Binding Motif for PCS Measurements by NMR<br>Spectroscopy. Angewandte Chemie, 2018, 130, 6334-6337.  | 1.6 | 2         |
| 15 | Two Histidines in an αâ€Helix: A Rigid Co <sup>2+</sup> â€Binding Motif for PCS Measurements by NMR<br>Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 6226-6229.   | 7.2 | 12        |
| 16 | Site-Specific Incorporation of Selenocysteine by Genetic Encoding as a Photocaged Unnatural Amino<br>Acid. Bioconjugate Chemistry, 2018, 29, 2257-2264.  | 1.8 | 33        |
| 17 | Modern Biocatalysis. RSC Catalysis Series, 2018, , .   | 0.1 | 5         |
| 18 | Protein Structure Determination by Assembling Super-Secondary Structure Motifs Using<br>Pseudocontact Shifts. Structure, 2017, 25, 559-568.  | 1.6 | 17        |

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|----|--|-----|-----------|
| 19 | 3D Computational Modeling of Proteins Using Sparse Paramagnetic NMR Data. Methods in Molecular<br>Biology, 2017, 1526, 3-21.   | 0.4 | 6         |
| 20 | Site-selective tagging of proteins by pnictogen-mediated self-assembly. Chemical Communications, 2017, 53, 10894-10897.  | 2.2 | 15        |
| 21 | Doubleâ€Arm Lanthanide Tags Deliver Narrow Gd <sup>3+</sup> –Gd <sup>3+</sup> Distance<br>Distributions in Double Electron–Electron Resonance (DEER) Measurements. Chemistry - A European<br>Journal, 2017, 23, 11694-11702. | 1.7 | 25        |
| 22 | Site-specific tagging proteins with a rigid, small and stable transition metal chelator,<br>8-hydroxyquinoline, for paramagnetic NMR analysis. Journal of Biomolecular NMR, 2016, 64, 103-113.                               | 1.6 | 13        |
| 23 | 3D structure determination of a protein in living cells using paramagnetic NMR spectroscopy.<br>Chemical Communications, 2016, 52, 10237-10240.  | 2.2 | 90        |
| 24 | Pseudocontact Shift-Driven Iterative Resampling for 3D Structure Determinations of Large Proteins.<br>Journal of Molecular Biology, 2016, 428, 522-532.  | 2.0 | 26        |
| 25 | Sensitive NMR Approach for Determining the Binding Mode of Tightly Binding Ligand Molecules to Protein Targets. Journal of the American Chemical Society, 2016, 138, 4539-4546.  | 6.6 | 53        |
| 26 | Analysis of the solution conformations of T4 lysozyme by paramagnetic NMR spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 5850-5859.  | 1.3 | 17        |
| 27 | Directed Evolution of New and Improved Enzyme Functions Using an Evolutionary Intermediate and Multidirectional Search. ACS Chemical Biology, 2015, 10, 611-621.   | 1.6 | 22        |
| 28 | <i>O</i> - <i>tert</i> -Butyltyrosine, an NMR Tag for High-Molecular-Weight Systems and Measurements<br>of Submicromolar Ligand Binding Affinities. Journal of the American Chemical Society, 2015, 137,<br>4581-4586.       | 6.6 | 28        |
| 29 | Flexibility of NS5 Methyltransferase-Polymerase Linker Region Is Essential for Dengue Virus<br>Replication. Journal of Virology, 2015, 89, 10717-10721.  | 1.5 | 41        |
| 30 | Capturing Conformational States in Proteins Using Sparse Paramagnetic NMR Data. PLoS ONE, 2015, 10, e0127053.  | 1.1 | 29        |
| 31 | Intramolecular binding mode of the C-terminus of <i>Escherichia coli</i> single-stranded DNA binding protein determined by nuclear magnetic resonance spectroscopy. Nucleic Acids Research, 2014, 42, 2750-2757.             | 6.5 | 36        |
| 32 | uPEPperoni: An online tool for upstream open reading frame location and analysis of transcript conservation. BMC Bioinformatics, 2014, 15, 36.   | 1.2 | 32        |
| 33 | Determining the Oligomeric Structure of Proteorhodopsin by Gd3+-Based Pulsed Dipolar<br>Spectroscopy of Multiple Distances. Structure, 2014, 22, 1677-1686.  | 1.6 | 72        |
| 34 | PGASâ€FMM: Implementing a distributed fast multipole method using the X10 programming language.<br>Concurrency Computation Practice and Experience, 2014, 26, 712-727.   | 1.4 | 2         |
| 35 | A direct proofreader–clamp interaction stabilizes the Pol III replicase in the polymerization mode.<br>EMBO Journal, 2013, 32, 1322-1333.  | 3.5 | 85        |
| 36 | W-band orientation selective DEER measurements on a Gd3+/nitroxide mixed-labeled protein dimer with a dual mode cavity. Journal of Magnetic Resonance, 2013, 227, 66-71.   | 1.2 | 52        |

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|----|--|-----|-----------|
| 37 | Magic Angle Spinning NMR Structure Determination of Proteins from Pseudocontact Shifts. Journal of the American Chemical Society, 2013, 135, 8294-8303.  | 6.6 | 42        |
| 38 | Three-Dimensional Protein Fold Determination from Backbone Amide Pseudocontact Shifts Generated by Lanthanide Tags at Multiple Sites. Structure, 2013, 21, 883-890.  | 1.6 | 77        |
| 39 | Lanthanide Tags for Site-Specific Ligation to an Unnatural Amino Acid and Generation of Pseudocontact Shifts in Proteins. Bioconjugate Chemistry, 2013, 24, 260-268.   | 1.8 | 81        |
| 40 | Gadolinium(III) Spin Labels for High‧ensitivity Distance Measurements in Transmembrane Helices.<br>Angewandte Chemie - International Edition, 2013, 52, 11831-11834.   | 7.2 | 54        |
| 41 | Proofreading exonuclease on a tether: the complex between the E. coli DNA polymerase III subunits α, Îμ, Î,<br>and β reveals a highly flexible arrangement of the proofreading domain. Nucleic Acids Research, 2013,<br>41, 5354-5367. | 6.5 | 34        |
| 42 | Nanometer-Range Distance Measurement in a Protein Using Mn <sup>2+</sup> Tags. Journal of Physical<br>Chemistry Letters, 2012, 3, 157-160.   | 2.1 | 72        |
| 43 | Protein Structure Determination from Pseudocontact Shifts Using ROSETTA. Journal of Molecular Biology, 2012, 416, 668-677.   | 2.0 | 106       |
| 44 | Spectroscopic selection of distance measurements in a protein dimer with mixed nitroxide and Gd3+<br>spin labels. Physical Chemistry Chemical Physics, 2012, 14, 4355.   | 1.3 | 73        |
| 45 | Far-infrared spectroscopy analysis of linear and cyclic peptides, and lysozyme. Vibrational Spectroscopy, 2012, 61, 144-150.   | 1.2 | 24        |
| 46 | Multiple‣ite Labeling of Proteins with Unnatural Amino Acids. Angewandte Chemie - International<br>Edition, 2012, 51, 2243-2246.   | 7.2 | 89        |
| 47 | Binding of Low Molecular Weight Inhibitors Promotes Large Conformational Changes in the Dengue<br>Virus NS2B-NS3 Protease: Fold Analysis by Pseudocontact Shifts. Journal of the American Chemical<br>Society, 2011, 133, 19205-19215. | 6.6 | 119       |
| 48 | DOTA-Amide Lanthanide Tag for Reliable Generation of Pseudocontact Shifts in Protein NMR Spectra.<br>Bioconjugate Chemistry, 2011, 22, 2118-2125.  | 1.8 | 104       |
| 49 | Characterization of Low-Frequency Modes in Aqueous Peptides Using Far-Infrared Spectroscopy and<br>Molecular Dynamics Simulation. Journal of Physical Chemistry A, 2011, 115, 11559-11565.   | 1.1 | 27        |
| 50 | Gadolinium Tagging for High-Precision Measurements of 6 nm Distances in Protein Assemblies by EPR.<br>Journal of the American Chemical Society, 2011, 133, 10418-10421.  | 6.6 | 104       |
| 51 | Engineering of a bis-chelator motif into a protein α-helix for rigid lanthanide binding and paramagnetic<br>NMR spectroscopy. Chemical Communications, 2011, 47, 7368.   | 2.2 | 44        |
| 52 | Engineering [Ln(DPA)3]3â^' binding sites in proteins: a widely applicable method for tagging proteins with lanthanide ions. Journal of Biomolecular NMR, 2011, 50, 411-420.  | 1.6 | 26        |
| 53 | Transformation of hemipentahydrate to monohydrate of risedronate monosodium by seed crystallization in solution. AICHE Journal, 2011, 57, 3385-3394.   | 1.8 | 4         |
| 54 | Generation of Pseudocontact Shifts in Protein NMR Spectra with a Genetically Encoded<br>Cobalt(II)â€Binding Amino Acid. Angewandte Chemie - International Edition, 2011, 50, 692-694.  | 7.2 | 33        |

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|----|--|-----|-----------|
| 55 | 4,4′â€Ðithiobisdipicolinic Acid: A Small and Convenient Lanthanide Binding Tag for Protein NMR<br>Spectroscopy. Chemistry - A European Journal, 2011, 17, 6830-6836.   | 1.7 | 28        |
| 56 | Tunable paramagnetic relaxation enhancements by [Gd(DPA)3]3â^' for protein structure analysis.<br>Journal of Biomolecular NMR, 2010, 47, 143-153.  | 1.6 | 23        |
| 57 | 3â€Mercaptoâ€2,6â€Pyridinedicarboxylic Acid: A Small Lanthanideâ€Binding Tag for Protein Studies by NMR<br>Spectroscopy. Chemistry - A European Journal, 2010, 16, 3827-3832.  | 1.7 | 50        |
| 58 | 2P001 1F1450 A cell-free system for highly efficient incorporation of unnatural amino acids for<br>studies of protein-protein interactions(The 48th Annual Meeting of the Biophysical Society of Japan).<br>Seibutsu Butsuri, 2010, 50, S82. | 0.0 | 0         |
| 59 | Nanometer-Scale Distance Measurements in Proteins Using Gd <sup>3+</sup> Spin Labeling. Journal of the American Chemical Society, 2010, 132, 9040-9048.  | 6.6 | 143       |
| 60 | Terahertz and far infrared Spectroscopy of alanine-rich peptides having variable ellipticity. Optics Express, 2010, 18, 27431.   | 1.7 | 51        |
| 61 | Numbat: an interactive software tool for fitting Δχ-tensors to molecular coordinates using<br>pseudocontact shifts. Journal of Biomolecular NMR, 2008, 41, 179-189.  | 1.6 | 168       |
| 62 | Predikin and PredikinDB: a computational framework for the prediction of protein kinase peptide specificity and an associated database of phosphorylation sites. BMC Bioinformatics, 2008, 9, 245.   | 1.2 | 62        |
| 63 | Identification of a non-purple tartrate-resistant acid phosphatase: an evolutionary link to Ser/Thr protein phosphatases?. BMC Research Notes, 2008, 1, 78.  | 0.6 | 13        |
| 64 | A General Target Selection Method for Crystallographic Proteomics. Methods in Molecular Biology, 2008, 426, 27-35.   | 0.4 | 2         |
| 65 | Structural Proteomics. Methods in Molecular Biology, 2008, 426, v-vi.  | 0.4 | 21        |
| 66 | An Introduction to Protein Contact Prediction. Methods in Molecular Biology, 2008, 453, 87-104.  | 0.4 | 7         |
| 67 | Crystallography and protein–protein interactions: biological interfaces and crystal contacts.<br>Biochemical Society Transactions, 2008, 36, 1438-1441.  | 1.6 | 61        |
| 68 | A Dipicolinic Acid Tag for Rigid Lanthanide Tagging of Proteins and Paramagnetic NMR Spectroscopy.<br>Journal of the American Chemical Society, 2008, 130, 10486-10487.  | 6.6 | 117       |
| 69 | Identification of Disulfide-Containing Chemical Cross-Links in Proteins Using MALDI-TOF/TOF-Mass<br>Spectrometry. Analytical Chemistry, 2008, 80, 5036-5043.   | 3.2 | 24        |
| 70 | Lanthanide-Binding Peptides for NMR Measurements of Residual Dipolar Couplings and Paramagnetic<br>Effects from Multiple Angles. Journal of the American Chemical Society, 2008, 130, 1681-1687.   | 6.6 | 96        |
| 71 | Cortactin Adopts a Globular Conformation and Bundles Actin into Sheets. Journal of Biological<br>Chemistry, 2008, 283, 16187-16193.  | 1.6 | 29        |
| 72 | Protein Structure Determination Using a Combination of Cross-linking, Mass Spectrometry, and<br>Molecular Modeling. Methods in Molecular Biology, 2008, 426, 459-474.  | 0.4 | 18        |

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|----|---|-----|-----------|
| 73 | Overview of the Pipeline for Structural and Functional Characterization of Macrophage Proteins at the University of Queensland. Methods in Molecular Biology, 2008, 426, 577-587.   | 0.4 | 1         |
| 74 | Structural basis for recruitment of tandem hotdog domains in acyl-CoA thioesterase 7 and its role in inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10382-10387. | 3.3 | 71        |
| 75 | Predicting disulfide connectivity from protein sequence using multiple sequence feature vectors and secondary structure. Bioinformatics, 2007, 23, 3147-3154.   | 1.8 | 65        |
| 76 | Sequence-Specific and Stereospecific Assignment of Methyl Groups Using Paramagnetic Lanthanides.<br>Journal of the American Chemical Society, 2007, 129, 13749-13757.   | 6.6 | 59        |
| 77 | Greengenes, a Chimera-Checked 16S rRNA Gene Database and Workbench Compatible with ARB. Applied and Environmental Microbiology, 2006, 72, 5069-5072.  | 1.4 | 9,859     |
| 78 | Focusing in on structural genomics: The University of Queensland structural biology pipeline. New<br>Biotechnology, 2006, 23, 281-289.  | 2.7 | 14        |
| 79 | Efficient χ-tensor determination and NH assignment of paramagnetic proteins. Journal of Biomolecular<br>NMR, 2006, 35, 79-87.   | 1.6 | 56        |
| 80 | Prediction of cis/trans isomerization in proteins using PSI-BLAST profiles and secondary structure information. BMC Bioinformatics, 2006, 7, 124.   | 1.2 | 83        |
| 81 | Site-Specific Labelling of Proteins with a Rigid Lanthanide-Binding Tag. ChemBioChem, 2006, 7, 1599-1604.   | 1.3 | 82        |
| 82 | Modelling the structure of latexin–carboxypeptidase A complex based on chemical cross-linking and molecular docking. Protein Engineering, Design and Selection, 2006, 19, 9-16.   | 1.0 | 19        |
| 83 | Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. FEBS Journal, 2005, 272, 3162-3171.  | 2.2 | 64        |
| 84 | An Inflammatory Role for the Mammalian Carboxypeptidase Inhibitor Latexin: Relationship to Cystatins and the Tumor Suppressor TIG1. Structure, 2005, 13, 309-317.   | 1.6 | 71        |
| 85 | Pilot studies on the parallel production of soluble mouse proteins in a bacterial expression system.<br>Journal of Structural and Functional Genomics, 2005, 6, 13-20.  | 1.2 | 7         |
| 86 | Comment on 'Protein isoelectric point as a predictor for increased crystallization screening efficiency'. Bioinformatics, 2004, 20, 2169-2170.  | 1.8 | 3         |
| 87 | Wurst: a protein threading server with a structural scoring function, sequence profiles and optimized substitution matrices. Nucleic Acids Research, 2004, 32, W532-W535.   | 6.5 | 40        |
| 88 | Bellerophon: a program to detect chimeric sequences in multiple sequence alignments.<br>Bioinformatics, 2004, 20, 2317-2319.  | 1.8 | 1,443     |
| 89 | Structure of the N-Terminal Domain of Escherichia coli Glutamine Synthetase Adenylyltransferase.<br>Structure, 2004, 12, 861-869.   | 1.6 | 28        |
| 90 | Protein contact prediction using patterns of correlation. Proteins: Structure, Function and Bioinformatics, 2004, 56, 679-684.  | 1.5 | 63        |

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| 91  | Fast Structure-Based Assignment of15N HSQC Spectra of Selectively15N-Labeled Paramagnetic Proteins.<br>Journal of the American Chemical Society, 2004, 126, 2963-2970.          | 6.6 | 83        |
| 92  | Chimeric 16S rDNA sequences of diverse origin are accumulating in the public databases. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 289-293.   | 0.8 | 203       |
| 93  | Systematic Characterization of the Zinc-Finger-Containing Proteins in the Mouse Transcriptome.<br>Genome Research, 2003, 13, 1430-1442.   | 2.4 | 89        |
| 94  | Phosphoregulators: Protein Kinases and Protein Phosphatases of Mouse. Genome Research, 2003, 13, 1443-1454.   | 2.4 | 43        |
| 95  | The structure of the PII-ATP complex. FEBS Journal, 2001, 268, 2028-2037.   | 0.2 | 48        |
| 96  | Free energy approximations in simple lattice proteins. Journal of Chemical Physics, 2001, 114, 4998-5005.   | 1.2 | 2         |
| 97  | Computational chemistry on Fujitsu vector–parallel processors: Development and performance of applications software. Parallel Computing, 2000, 26, 887-911.                     | 1.3 | 7         |
| 98  | Sausage: protein threading with flexible force fields. Bioinformatics, 1999, 15, 1064-1065.   | 1.8 | 15        |
| 99  | Protein sequence threading, the alignment problem, and a two-step strategy. Journal of Computational Chemistry, 1999, 20, 1455-1467.  | 1.5 | 10        |
| 100 | Protein fold recognition score functions: Unusual construction strategies. , 1999, 36, 454-461.   |     | 4         |
| 101 | The CROMOS Biomolecular Simulation Program Package. Journal of Physical Chemistry A, 1999, 103, 3596-3607.  | 1.1 | 1,354     |
| 102 | Protein fold recognition without Boltzmann statistics or explicit physical basis. Protein Science, 1998, 7, 142-149.  | 3.1 | 24        |
| 103 | SWARM-MD:Â Searching Conformational Space by Cooperative Molecular Dynamics. Journal of Physical Chemistry A, 1998, 102, 5937-5943.   | 1.1 | 63        |
| 104 | Optimization methods for conformational sampling using a Boltzmann-weighted mean field approach.<br>Biopolymers, 1998, 39, 103-114.   | 1.2 | 14        |
| 105 | Structure Optimization Combining Soft-Core Interaction Functions, the Diffusion Equation Method, and Molecular Dynamics. Journal of Physical Chemistry A, 1997, 101, 5926-5930. | 1.1 | 36        |
| 106 | Molecular dynamics simulation using weak-coupling NOE distance restraining. Journal of<br>Biomolecular NMR, 1996, 8, 285-291.   | 1.6 | 11        |
| 107 | Optimization methods for conformational sampling using a Boltzmann-weighted mean field approach.<br>, 1996, 39, 103.  |     | 6         |
| 108 | Local elevation: A method for improving the searching properties of molecular dynamics simulation.<br>Journal of Computer-Aided Molecular Design, 1994, 8, 695-708.             | 1.3 | 510       |

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|-----|---|-----|-----------|
| 109 | Coupling constants again: Experimental restraints in structure refinement. Journal of<br>Computer-Aided Molecular Design, 1994, 8, 29-40.             | 1.3 | 28        |
| 110 | Structure refinement using time-averaged J-coupling constant restraints. Journal of Biomolecular<br>NMR, 1993, 3, 55-66.                              | 1.6 | 125       |
| 111 | Genetic Encoding of Cyanopyridylalanine for Inâ€Cell Protein Macrocyclization by the<br>Nitrileâ€Aminothiol Click Reaction. Angewandte Chemie, 0, , . | 1.6 | Ο         |