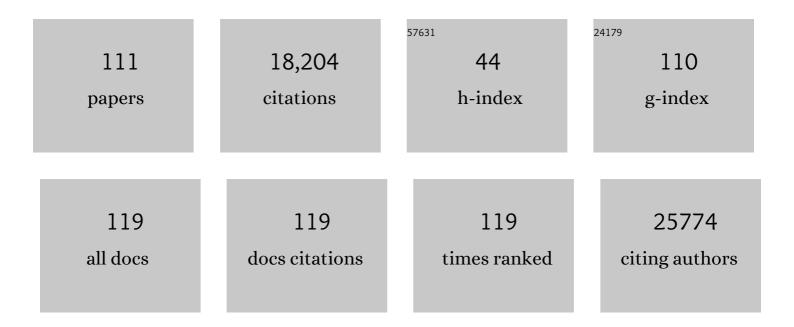
## **Thomas Huber**

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 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 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. 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 NMR Studies of Protein–Protein and Protein–Ligand Interactions. Journal of the American Chemical 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 Amino Acids for the Detection of Specific Contacts in Proteins. Journal of the American Chemical Society, 2021, 143, 19587-19598.	6.6	16
8	Genetic Encoding of <i>para</i> -Pentafluorosulfanyl Phenylalanine: A Highly Hydrophobic and Strongly Electronegative Group for Stable Protein Interactions. Journal of the American Chemical 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 Protons Generated by Double-Histidine Co <sup>2+</sup> -Binding Motifs at Multiple Sites. 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 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 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 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 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 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 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 Distributions in Double Electron–Electron Resonance (DEER) Measurements. Chemistry - A European Journal, 2017, 23, 11694-11702.	1.7	25
22	Site-specific tagging proteins with a rigid, small and stable transition metal chelator, 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. Chemical Communications, 2016, 52, 10237-10240.	2.2	90
24	Pseudocontact Shift-Driven Iterative Resampling for 3D Structure Determinations of Large Proteins. 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 of Submicromolar Ligand Binding Affinities. Journal of the American Chemical Society, 2015, 137, 4581-4586.	6.6	28
29	Flexibility of NS5 Methyltransferase-Polymerase Linker Region Is Essential for Dengue Virus 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 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. 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. 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. 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, and β reveals a highly flexible arrangement of the proofreading domain. Nucleic Acids Research, 2013, 41, 5354-5367.	6.5	34
42	Nanometer-Range Distance Measurement in a Protein Using Mn <sup>2+</sup> Tags. Journal of Physical 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+ 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 Edition, 2012, 51, 2243-2246.	7.2	89
47	Binding of Low Molecular Weight Inhibitors Promotes Large Conformational Changes in the Dengue Virus NS2B-NS3 Protease: Fold Analysis by Pseudocontact Shifts. Journal of the American Chemical Society, 2011, 133, 19205-19215.	6.6	119
48	DOTA-Amide Lanthanide Tag for Reliable Generation of Pseudocontact Shifts in Protein NMR Spectra. Bioconjugate Chemistry, 2011, 22, 2118-2125.	1.8	104
49	Characterization of Low-Frequency Modes in Aqueous Peptides Using Far-Infrared Spectroscopy and 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. 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 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 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 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. 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 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 studies of protein-protein interactions(The 48th Annual Meeting of the Biophysical Society of Japan). 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 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. 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. 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 Spectrometry. Analytical Chemistry, 2008, 80, 5036-5043.	3.2	24
70	Lanthanide-Binding Peptides for NMR Measurements of Residual Dipolar Couplings and Paramagnetic 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 Chemistry, 2008, 283, 16187-16193.	1.6	29
72	Protein Structure Determination Using a Combination of Cross-linking, Mass Spectrometry, and 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. 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 Biotechnology, 2006, 23, 281-289.	2.7	14
79	Efficient χ-tensor determination and NH assignment of paramagnetic proteins. Journal of Biomolecular 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. 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. Bioinformatics, 2004, 20, 2317-2319.	1.8	1,443
89	Structure of the N-Terminal Domain of Escherichia coli Glutamine Synthetase Adenylyltransferase. 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. 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. 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. 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 Biomolecular NMR, 1996, 8, 285-291.	1.6	11
107	Optimization methods for conformational sampling using a Boltzmann-weighted mean field approach. , 1996, 39, 103.		6
108	Local elevation: A method for improving the searching properties of molecular dynamics simulation. 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 Computer-Aided Molecular Design, 1994, 8, 29-40.	1.3	28
110	Structure refinement using time-averaged J-coupling constant restraints. Journal of Biomolecular NMR, 1993, 3, 55-66.	1.6	125
111	Genetic Encoding of Cyanopyridylalanine for Inâ€Cell Protein Macrocyclization by the Nitrileâ€Aminothiol Click Reaction. Angewandte Chemie, 0, , .	1.6	Ο