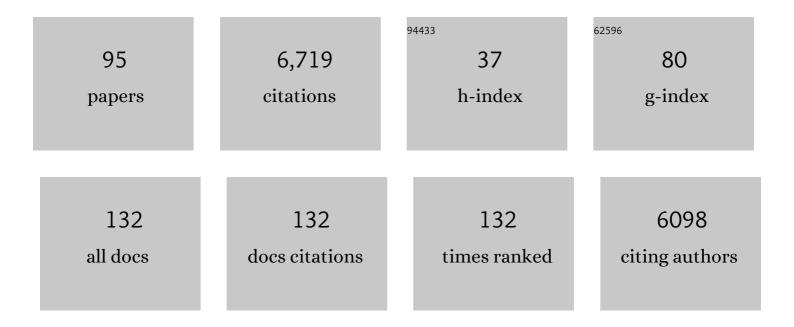
Thomas Szyperski

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	From Protein Design to the Energy Landscape of a Cold Unfolding Protein. Journal of Physical Chemistry B, 2022, 126, 1212-1231.	2.6	3
2	Oligomeric interactions maintain activeâ€site structure in a noncooperative enzyme family. EMBO Journal, 2022, 41, .	7.8	10
3	Perturbing the energy landscape for improved packing during computational protein design. Proteins: Structure, Function and Bioinformatics, 2021, 89, 436-449.	2.6	85
4	Hanudatta S. Atreya (1974–2020). Magnetic Resonance in Chemistry, 2021, 59, 201-212.	1.9	0
5	Evolutionary coupling saturation mutagenesis: Coevolutionâ€guided identification of distant sites influencing Bacillus naganoensis pullulanase activity. FEBS Letters, 2020, 594, 799-812.	2.8	22
6	Folding and Assembly of Short α, β, γ-Hybrid Peptides: Minor Variations in Sequence and Drastic Differences in Higher-Level Structures. Journal of the American Chemical Society, 2019, 141, 14239-14248.	13.7	18
7	Structural Basis by Which the N-Terminal Polypeptide Segment of <i>Rhizopus chinensis</i> Lipase Regulates Its Substrate Binding Affinity. Biochemistry, 2019, 58, 3943-3954.	2.5	14
8	Development of a Fragment-Based Screening Assay for the Focal Adhesion Targeting Domain Using SPR and NMR. Molecules, 2019, 24, 3352.	3.8	10
9	The copBL operon protects Staphylococcus aureus from copper toxicity: CopL is an extracellular membrane–associated copper-binding protein. Journal of Biological Chemistry, 2019, 294, 4027-4044.	3.4	34
10	Cytosolic expression, solution structures, and molecular dynamics simulation of genetically encodable disulfideâ€rich <i>de novo</i> designed peptides. Protein Science, 2018, 27, 1611-1623.	7.6	14
11	Room Temperature X-Ray Crystallography Reveals Conformational Heterogeneity of Engineered Proteins. Structure, 2017, 25, 691-692.	3.3	2
12	¹³ C metabolic flux profiling of <i>Pichia pastoris</i> grown in aerobic batch cultures on glucose revealed high relative anabolic use of <scp>TCA</scp> cycle and limited incorporation of provided precursors of branchedâ€chain amino acids. FEBS Journal, 2017, 284, 3100-3113.	4.7	10
13	Aromatic oligureas as hosts for anions and cations. Chemical Communications, 2016, 52, 9905-9908.	4.1	10
14	A community resource of experimental data for <scp>NMR</scp> / <scp>X</scp> â€ray crystal structure pairs. Protein Science, 2016, 25, 30-45.	7.6	24
15	Accurate de novo design of hyperstable constrained peptides. Nature, 2016, 538, 329-335.	27.8	327
16	Metabolomics of biomarker discovery in ovarian cancer: a systematic review of the current literature. Metabolomics, 2016, 12, 1.	3.0	57
17	Discrete Stacking of Aromatic Oligoamide Macrocycles. Journal of the American Chemical Society, 2015, 137, 5879-5882.	13.7	37
18	Solution NMR Experiment for Measurement of ¹⁵ N– ¹ H Residual Dipolar Couplings in Large Proteins and Supramolecular Complexes. Journal of the American Chemical Society, 2015, 137, 11242-11245.	13.7	10

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19	Polypeptide backbone, Cβ and methyl group resonance assignments of the 24ÂkDa plectin repeat domain 6 from human protein plectin. Biomolecular NMR Assignments, 2015, 9, 135-138.	0.8	0
20	High-Quality NMR Structure of Human Anti-Apoptotic Protein Domain Mcl-1(171-327) for Cancer Drug Design. PLoS ONE, 2014, 9, e96521.	2.5	24
21	Structural and Functional Characterization of DUF1471 Domains of Salmonella Proteins SrfN, YdgH/SssB, and YahO. PLoS ONE, 2014, 9, e101787.	2.5	13
22	Spatially Selective Heteronuclear Multipleâ€Quantum Coherence Spectroscopy for Biomolecular NMR Studies. ChemPhysChem, 2014, 15, 1872-1879.	2.1	6
23	Identification of Lowâ€Molecularâ€Weight Compounds Inhibiting Growth of Corynebacteria: Potential Lead Compounds for Antibiotics. ChemMedChem, 2014, 9, 282-285.	3.2	3
24	Solution NMR structures of homeodomains from human proteins ALX4, ZHX1, and CASP8AP2 contribute to the structural coverage of the Human Cancer Protein Interaction Network. Journal of Structural and Functional Genomics, 2014, 15, 201-207.	1.2	1
25	Solution NMR structures of immunoglobulin-like domains 7 and 12 from obscurin-like protein 1 contribute to the structural coverage of the human cancer protein interaction network. Journal of Structural and Functional Genomics, 2014, 15, 209-214.	1.2	Ο
26	Solution NMR structure of the helicase associated domain BVU_0683(627–691) from Bacteroides vulgatus provides first structural coverage for protein domain family PF03457 and indicates domain binding to DNA. Journal of Structural and Functional Genomics, 2013, 14, 19-24.	1.2	0
27	Solution NMR structure of CD1104B from pathogenic Clostridium difficile reveals a distinct α-helical architecture and provides first structural representative of protein domain family PF14203. Journal of Structural and Functional Genomics, 2013, 14, 155-160.	1.2	2
28	Protein Conformational Space Populated in Solution Probed with Aromatic Residual Dipolar ¹³ C– ¹ H Couplings. ChemBioChem, 2013, 14, 684-688.	2.6	14
29	Solution NMR structures provide first structural coverage of the large protein domain family PF08369 and complementary structural coverage of dark operative protochlorophyllide oxidoreductase complexes. Journal of Structural and Functional Genomics, 2013, 14, 119-126.	1.2	0
30	1H NMR based profiling of spent culture media cannot predict success of implantation for day 3 human embryos. Journal of Assisted Reproduction and Genetics, 2012, 29, 1435-1442.	2.5	17
31	GFT projection NMR for efficient 1H/13C sugar spin system identification in nucleic acids. Journal of Biomolecular NMR, 2012, 54, 337-342.	2.8	4
32	Highly Precise Measurement of Kinetic Isotope Effects Using ¹ H-Detected 2D [¹³ C, ¹ H]-HSQC NMR Spectroscopy. Journal of the American Chemical Society, 2012, 134, 20589-20592.	13.7	33
33	Solution NMR structures reveal unique homodimer formation by a winged helix-turn-helix motif and provide first structures for protein domain family PF10771. Journal of Structural and Functional Genomics, 2012, 13, 1-7.	1.2	2
34	Solution NMR structures reveal a distinct architecture and provide first structures for protein domain family PF04536. Journal of Structural and Functional Genomics, 2012, 13, 9-14.	1.2	7
35	Increasing Sequence Diversity with Flexible Backbone Protein Design: The Complete Redesign of a Protein Hydrophobic Core. Structure, 2012, 20, 1086-1096.	3.3	58
36	NMR Structure of Lipoprotein YxeF from Bacillus subtilis Reveals a Calycin Fold and Distant Homology with the Lipocalin Blc from Escherichia coli. PLoS ONE, 2012, 7, e37404.	2.5	6

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37	Diagnosis of Early Stage Ovarian Cancer by ¹ H NMR Metabonomics of Serum Explored by Use of a Microflow NMR Probe. Journal of Proteome Research, 2011, 10, 1765-1771.	3.7	70
38	Theory of mirrored time domain sampling for NMR spectroscopy. Journal of Magnetic Resonance, 2011, 213, 46-57.	2.1	2
39	NMR-based structural biology of proteins in supercooled water. Journal of Structural and Functional Genomics, 2011, 12, 1-7.	1.2	14
40	Solution NMR structure of MED25(391–543) comprising the activator-interacting domain (ACID) of human mediator subunit 25. Journal of Structural and Functional Genomics, 2011, 12, 159-166.	1.2	18
41	Solution NMR structures of proteins VPA0419 from <i>Vibrio parahaemolyticus</i> and yiiS from <i>Shigella flexneri</i> provide structural coverage for protein domain family PFAM 04175. Proteins: Structure, Function and Bioinformatics, 2010, 78, 779-784.	2.6	0
42	NMR Structure Determination for Larger Proteins Using Backbone-Only Data. Science, 2010, 327, 1014-1018.	12.6	245
43	Advances in protein NMR provided by the NIGMS Protein Structure Initiative: impact on drug discovery. Current Opinion in Drug Discovery & Development, 2010, 13, 335-49.	1.9	7
44	Analysis of the Varicella-Zoster Virus IE62 N-Terminal Acidic Transactivating Domain and Its Interaction with the Human Mediator Complex. Journal of Virology, 2009, 83, 6300-6305.	3.4	26
45	Standard operating procedure for metabonomics studies of blood serum and plasma samples using a ¹ Hâ€NMR microâ€flow probe. Magnetic Resonance in Chemistry, 2009, 47, S81-5.	1.9	15
46	Clean Absorptionâ€Mode NMR Data Acquisition. Angewandte Chemie - International Edition, 2009, 48, 1479-1483.	13.8	6
47	Unique opportunities for NMR methods in structural genomics. Journal of Structural and Functional Genomics, 2009, 10, 101-106.	1.2	25
48	Clean absorption mode NMR data acquisition based on time-proportional phase incrementation. Journal of Structural and Functional Genomics, 2009, 10, 227-232.	1.2	5
49	Structure of the Protein BPTI Derived with NOESY in Supercooled Water: Validation and Refinement of Solution Structures. Angewandte Chemie - International Edition, 2008, 47, 324-326.	13.8	5
50	Consistent blind protein structure generation from NMR chemical shift data. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4685-4690.	7.1	776
51	Simultaneously Cycled NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 4925-4933.	13.7	8
52	On NMR-based Structural Proteomics. , 2008, , 307-329.		0
53	J-GFT NMR for Precise Measurement of Mutually Correlated Nuclear Spinâ^'Spin Couplings. Journal of the American Chemical Society, 2007, 129, 680-692.	13.7	24
54	Metabolic flux profiling of Pichia pastoris grown on glycerol/methanol mixtures in chemostat cultures at low and high dilution rates. Microbiology (United Kingdom), 2007, 153, 281-290.	1.8	82

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55	Combined NMR-observation of cold denaturation in supercooled water and heat denaturation enables accurate measurement of ΔC p of protein unfolding. European Biophysics Journal, 2006, 35, 363-366.	2.2	43
56	Principles and applications of GFT projection NMR spectroscopy. Magnetic Resonance in Chemistry, 2006, 44, S51-S60.	1.9	51
57	NMR solution structure of Thermotoga maritima protein TM1509 reveals a Zn-metalloprotease-like tertiary structure. Journal of Structural and Functional Genomics, 2005, 6, 51-62.	1.2	21
58	An Integrated Platform for Automated Analysis of Protein NMR Structures. Methods in Enzymology, 2005, 394, 111-141.	1.0	67
59	Rapid NMR Data Collection. Methods in Enzymology, 2005, 394, 78-108.	1.0	86
60	NMR data collection and analysis protocol for high-throughput protein structure determination. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10487-10492.	7.1	108
61	Probing Structure and Functional Dynamics of (Large) Proteins with Aromatic Rings:Â L-GFT-TROSY (4,3)DHCCH NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 14578-14579.	13.7	32
62	G-Matrix Fourier Transform NOESY-Based Protocol for High-Quality Protein Structure Determination. Journal of the American Chemical Society, 2005, 127, 9085-9099.	13.7	54
63	Resonance Assignment of Proteins with High Shift Degeneracy Based on 5D Spectral Information Encoded in G2FT NMR Experiments. Journal of the American Chemical Society, 2005, 127, 4554-4555.	13.7	35
64	Amino acid biosynthesis and metabolic flux profiling of Pichia pastoris. FEBS Journal, 2004, 271, 2462-2470.	0.2	82
65	GFT NMR Experiments for Polypeptide Backbone and13CβChemical Shift Assignment. Journal of Biomolecular NMR, 2004, 28, 117-130.	2.8	38
66	A generalized approach to automated NMR peak list editing: application to reduced dimensionality triple resonance spectra. Journal of Magnetic Resonance, 2004, 170, 263-277.	2.1	38
67	The phosphoenolpyruvate carboxykinase also catalyzes C3 carboxylation at the interface of glycolysis and the TCA cycle of Bacillus subtilis. Metabolic Engineering, 2004, 6, 277-284.	7.0	49
68	G-matrix Fourier transform NMR spectroscopy for complete protein resonance assignment. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9642-9647.	7.1	125
69	GFT NMR, a New Approach To Rapidly Obtain Precise High-Dimensional NMR Spectral Information. Journal of the American Chemical Society, 2003, 125, 1385-1393.	13.7	340
70	Metabolic-Flux Profiling of the Yeasts Saccharomyces cerevisiae and Pichia stipitis. Eukaryotic Cell, 2003, 2, 170-180.	3.4	150
71	Reduced-dimensionality NMR spectroscopy for high-throughput protein resonance assignment. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8009-8014.	7.1	186
72	Metabolic Flux Responses to Pyruvate Kinase Knockout in <i>Escherichia coli</i> . Journal of Bacteriology, 2002, 184, 152-164.	2.2	254

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73	Strukturelle Genomik. Nachrichten Aus Der Chemie, 2002, 50, 1128-1131.	0.0	3
74	Intracellular Carbon Fluxes in Riboflavin-Producing Bacillussubtilis during Growth on Two-Carbon Substrate Mixtures. Applied and Environmental Microbiology, 2002, 68, 1760-1771.	3.1	70
75	Protein dynamics in supercooled water: the search for slow motional modes. Journal of Biomolecular NMR, 2002, 23, 63-67.	2.8	32
76	Central carbon metabolism of Saccharomyces cerevisiae explored by biosynthetic fractional 13 C labeling of common amino acids. FEBS Journal, 2001, 268, 2464-2479.	0.2	151
77	Aromatic Ring-Flipping in Supercooled Water:Â Implications for NMR-Based Structural Biology of Proteins. Journal of the American Chemical Society, 2001, 123, 388-397.	13.7	72
78	Metabolic flux response to phosphoglucose isomerase knock-out in Escherichia coli and impact of overexpression of the soluble transhydrogenase UdhA. FEMS Microbiology Letters, 2001, 204, 247-252.	1.8	160
79	Dissection of Central Carbon Metabolism of Hemoglobin-Expressing Escherichia coli by 13 C Nuclear Magnetic Resonance Flux Distribution Analysis in Microaerobic Bioprocesses. Applied and Environmental Microbiology, 2001, 67, 680-687.	3.1	35
80	Metabolic flux response to phosphoglucose isomerase knock-out in Escherichia coli and impact of overexpression of the soluble transhydrogenase UdhA. FEMS Microbiology Letters, 2001, 204, 247-252.	1.8	9
81	Toward Structural Biology in Supercooled Water. Journal of the American Chemical Society, 2000, 122, 3230-3231.	13.7	43
82	Metabolic Flux Ratio Analysis of Genetic and Environmental Modulations of <i>Escherichia coli</i> Central Carbon Metabolism. Journal of Bacteriology, 1999, 181, 6679-6688.	2.2	361
83	Bioreaction Network Topology and Metabolic Flux Ratio Analysis by Biosynthetic Fractional 13C Labeling and Two-Dimensional NMR Spectroscopy. Metabolic Engineering, 1999, 1, 189-197.	7.0	103
84	The 2D {31P} Spin-Echo-Difference Constant-Time [13C, 1H]-HMQC Experiment for Simultaneous Determination of 3JH3′P and 3JC4′P in 13C-Labeled Nucleic Acids and Their Protein Complexes. Journal of Magnetic Resonance, 1999, 140, 491-494.	2.1	20
85	Conformational Changes of the BS2 Operator DNA upon Complex Formation with the Antennapedia Homeodomain Studied by NMR with13C/15N-labeled DNA. Journal of Molecular Biology, 1999, 292, 609-617.	4.2	14
86	Amino Acid Biosynthesis in the Halophilic Archaeon <i>Haloarcula hispanica</i> . Journal of Bacteriology, 1999, 181, 3226-3237.	2.2	45
87	Title is missing!. Journal of Biomolecular NMR, 1998, 11, 387-405.	2.8	36
88	Measurement of Deoxyribose3JHHScalar Couplings Reveals Protein Binding-Induced Changes in the Sugar Puckers of the DNA. Journal of the American Chemical Society, 1998, 120, 821-822.	13.7	18
89	13C-NMR, MS and metabolic flux balancing in biotechnology research. Quarterly Reviews of Biophysics, 1998, 31, 41-106.	5.7	216
90	Measurement of3JC2â€~PScalar Couplings in a 17 kDa Protein Complex with13C,15N-Labeled DNA Distinguishes the Bland BIIPhosphate Conformations of the DNA. Journal of the American Chemical Society, 1997, 119, 9901-9902.	13.7	33

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91	Metabolic fluxes in riboflavin-producing Bacillus subtilis. Nature Biotechnology, 1997, 15, 448-452.	17.5	241
92	Detecting and dissecting metabolic fluxes using biosynthetic fractional 13C labeling and two-dimensional NMR spectroscopy. Trends in Biotechnology, 1996, 14, 453-459.	9.3	60
93	Biosynthetically Directed Fractional 13C-labeling of Proteinogenic Amino Acids. An Efficient Analytical Tool to Investigate Intermediary Metabolism. FEBS Journal, 1995, 232, 433-448.	0.2	335
94	Support of1H NMR assignments in proteins by biosynthetically directed fractional13C-labeling. Journal of Biomolecular NMR, 1992, 2, 323-334.	2.8	99
95	Stereospecific nuclear magnetic resonance assignments of the methyl groups of valine and leucine in the DNA-binding domain of the 434 repressor by biosynthetically directed fractional carbon-13 labeling. Biochemistry, 1989, 28, 7510-7516.	2.5	597