

# Heinrich Roder

## List of Publications by Citations

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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.

110  
papers

9,540<sup>0</sup>  
citations

53  
h-index

97  
g-index

112  
ext. papers

9,975  
ext. citations

7.6  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
110	Structural characterization of folding intermediates in cytochrome c by H-exchange labelling and proton NMR. <i>Nature</i> , <b>1988</b> , 335, 700-4	50.4	827
109	Squalamine: an aminosterol antibiotic from the shark. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 1354-8	11.5	327
108	Fast events in protein folding initiated by nanosecond laser photolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 11860-4	11.5	312
107	Structural description of acid-denatured cytochrome c by hydrogen exchange and 2D NMR. <i>Biochemistry</i> , <b>1990</b> , 29, 10433-7	3.2	309
106	Kinetic role of early intermediates in protein folding. <i>Current Opinion in Structural Biology</i> , <b>1997</b> , 7, 15-288.1		300
105	Kinetic mechanism of cytochrome c folding: involvement of the heme and its ligands. <i>Biochemistry</i> , <b>1994</b> , 33, 6925-35	3.2	300
104	Evidence for a three-state model of protein folding from kinetic analysis of ubiquitin variants with altered core residues. <i>Nature Structural Biology</i> , <b>1996</b> , 3, 193-205		287
103	Folding and stability of a tryptophan-containing mutant of ubiquitin. <i>Biochemistry</i> , <b>1993</b> , 32, 7054-63	3.2	237
102	Early steps in cytochrome c folding probed by time-resolved circular dichroism and fluorescence spectroscopy. <i>Biochemistry</i> , <b>1992</b> , 31, 6876-83	3.2	236
101	Dynamics and folding of single two-stranded coiled-coil peptides studied by fluorescent energy transfer confocal microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 13021-6	11.5	228
100	Evidence for barrier-limited protein folding kinetics on the microsecond time scale. <i>Nature Structural Biology</i> , <b>1998</b> , 5, 385-92		224
99	Early hydrogen-bonding events in the folding reaction of ubiquitin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 2017-21	11.5	212
98	A continuous-flow capillary mixing method to monitor reactions on the microsecond time scale. <i>Biophysical Journal</i> , <b>1998</b> , 74, 2714-21	2.9	193
97	An antibody binding site on cytochrome c defined by hydrogen exchange and two-dimensional NMR. <i>Science</i> , <b>1990</b> , 249, 755-9	33.3	183
96	Solution structure and dynamics of a de novo designed three-helix bundle protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 5486-91	11.5	181
95	Identification of the predominant non-native histidine ligand in unfolded cytochrome c. <i>Biochemistry</i> , <b>1997</b> , 36, 12535-41	3.2	179
94	Side chain packing of the N- and C-terminal helices plays a critical role in the kinetics of cytochrome c folding. <i>Biochemistry</i> , <b>1996</b> , 35, 5538-49	3.2	157

93	Determinants of protein hydrogen exchange studied in equine cytochrome c. <i>Protein Science</i> , <b>1998</b> , 7, 739-45	6.3	151
92	Structural and kinetic characterization of early folding events in beta-lactoglobulin. <i>Nature Structural Biology</i> , <b>2001</b> , 8, 151-5		150
91	Structural and kinetic description of cytochrome c unfolding induced by the interaction with lipid vesicles. <i>Biochemistry</i> , <b>1997</b> , 36, 13122-32	3.2	146
90	Ultrafast folding of alpha3D: a de novo designed three-helix bundle protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 15486-91	11.5	146
89	Folding dynamics of the B1 domain of protein G explored by ultrarapid mixing. <i>Nature Structural Biology</i> , <b>1999</b> , 6, 943-7		133
88	Early events in protein folding explored by rapid mixing methods. <i>Chemical Reviews</i> , <b>2006</b> , 106, 1836-61	68.1	129
87	Ultrarapid mixing experiments reveal that Im7 folds via an on-pathway intermediate. <i>Nature Structural Biology</i> , <b>2001</b> , 8, 68-72		128
86	Amide proton exchange in proteins by EX1 kinetics: studies of the basic pancreatic trypsin inhibitor at variable p2H and temperature. <i>Biochemistry</i> , <b>1985</b> , 24, 7396-407	3.2	128
85	Proton resonance assignments of horse ferricytochrome c. <i>Biochemistry</i> , <b>1989</b> , 28, 195-203	3.2	125
84	NMR-detected hydrogen exchange and molecular dynamics simulations provide structural insight into fibril formation of prion protein fragment 106-126. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 14790-5	11.5	123
83	Two-dimensional 1H NMR studies of cytochrome c: hydrogen exchange in the N-terminal helix. <i>Biochemistry</i> , <b>1986</b> , 25, 1107-14	3.2	122
82	Kinetic evidence for folding and unfolding intermediates in staphylococcal nuclease. <i>Biochemistry</i> , <b>1997</b> , 36, 5795-805	3.2	116
81	Protein folding kinetics by combined use of rapid mixing techniques and NMR observation of individual amide protons. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1986</b> , 1, 34-42	4.2	114
80	Redox-dependent structure change and hyperfine nuclear magnetic resonance shifts in cytochrome c. <i>Biochemistry</i> , <b>1990</b> , 29, 3494-504	3.2	110
79	Proton resonance assignments of horse ferrocytochrome c. <i>Biochemistry</i> , <b>1989</b> , 28, 186-94	3.2	103
78	Design of a switchable eliminase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 6823-7	11.5	102
77	A noncovalent peptide complex as a model for an early folding intermediate of cytochrome c. <i>Biochemistry</i> , <b>1993</b> , 32, 10271-6	3.2	102
76	Early kinetic intermediate in the folding of acyl-CoA binding protein detected by fluorescence labeling and ultrarapid mixing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 9807-12	11.5	89

75	Kinetic intermediates in the formation of the cytochrome c molten globule. <i>Nature Structural Biology</i> , <b>1996</b> , 3, 1019-25		88
74	Structural characterization of protein folding intermediates by proton magnetic resonance and hydrogen exchange. <i>Methods in Enzymology</i> , <b>1989</b> , 176, 446-73	1.7	88
73	An early intermediate in the folding reaction of the B1 domain of protein G contains a native-like core. <i>Biochemistry</i> , <b>1997</b> , 36, 14277-83	3.2	85
72	Protein structure refinement based on paramagnetic NMR shifts: applications to wild-type and mutant forms of cytochrome c. <i>Protein Science</i> , <b>1995</b> , 4, 296-305	6.3	84
71	Internal friction controls the speed of protein folding from a compact configuration. <i>Biochemistry</i> , <b>2004</b> , 43, 12532-8	3.2	82
70	Ligand binding to heme proteins: relevance of low-temperature data. <i>Biochemistry</i> , <b>1986</b> , 25, 3139-46	3.2	82
69	De novo design of a single-chain diphenylporphyrin metalloprotein. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10732-40	16.4	80
68	Structural characterization of an equilibrium unfolding intermediate in cytochrome c. <i>Journal of Molecular Biology</i> , <b>2006</b> , 357, 1009-25	6.5	79
67	Individual amide proton exchange rates in thermally unfolded basic pancreatic trypsin inhibitor. <i>Biochemistry</i> , <b>1985</b> , 24, 7407-11	3.2	74
66	Kinetic mechanism of folding and unfolding of <i>Rhodobacter capsulatus</i> cytochrome c2. <i>Biochemistry</i> , <b>1996</b> , 35, 16852-62	3.2	69
65	Kinetic and Structural Analysis of Submillisecond Folding Events in Cytochrome c. <i>Accounts of Chemical Research</i> , <b>1998</b> , 31, 717-725	24.3	67
64	Rapid amide proton exchange rates in peptides and proteins measured by solvent quenching and two-dimensional NMR. <i>Protein Science</i> , <b>1995</b> , 4, 804-14	6.3	66
63	Methods for exploring early events in protein folding. <i>Current Opinion in Structural Biology</i> , <b>1999</b> , 9, 620-8	8.1	63
62	Structure of the novel steroidal antibiotic squalamine determined by two-dimensional NMR spectroscopy. <i>Steroids</i> , <b>1993</b> , 58, 370-8	2.8	63
61	Nanosecond flash photolysis study of carbon monoxide binding to the beta chain of hemoglobin Zürich [beta 63(E7)His leads to Arg]. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1983</b> , 80, 6239-43	11.5	61
60	Rapid mixing methods for exploring the kinetics of protein folding. <i>Methods</i> , <b>2004</b> , 34, 15-27	4.6	58
59	Early intermediate in human prion protein folding as evidenced by ultrarapid mixing experiments. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11673-8	16.4	57
58	Arginyltransferase ATE1 catalyzes midchain arginylation of proteins at side chain carboxylates in vivo. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 331-7		56

57	Amide protection in an early folding intermediate of cytochrome c. <i>Folding &amp; Design</i> , <b>1998</b> , 3, 293-301		51
56	Assignment of paramagnetically shifted resonances in the 1H NMR spectrum of horse ferricytochrome c. <i>Biophysical Journal</i> , <b>1990</b> , 57, 15-22	2.9	51
55	Parallel pathways in cytochrome c(551) folding. <i>Journal of Molecular Biology</i> , <b>2003</b> , 330, 1145-52	6.5	49
54	Early events during folding of wild-type staphylococcal nuclease and a single-tryptophan variant studied by ultrarapid mixing. <i>Journal of Molecular Biology</i> , <b>2004</b> , 338, 383-400	6.5	48
53	Isothermal Analysis of ThermoFluor Data can readily provide Quantitative Binding Affinities. <i>Scientific Reports</i> , <b>2019</b> , 9, 2650	4.9	47
52	Direct evidence for the cooperative unfolding of cytochrome c in lipid membranes from H-(2)H exchange kinetics. <i>Journal of Molecular Biology</i> , <b>2000</b> , 303, 617-26	6.5	46
51	Characterizing protein folding intermediates. <i>Current Biology</i> , <b>1991</b> , 1, 218-20	6.3	44
50	Trans/13-cis isomerization is essential for both the photocycle and proton pumping of bacteriorhodopsin. <i>Biophysical Journal</i> , <b>1985</b> , 47, 509-12	2.9	44
49	Ultrarapid mixing experiments shed new light on the characteristics of the initial conformational ensemble during the folding of ribonuclease A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 17681-6	11.5	43
48	Early formation of a beta hairpin during folding of staphylococcal nuclease H124L as detected by pulsed hydrogen exchange. <i>Protein Science</i> , <b>2002</b> , 11, 82-91	6.3	41
47	Mapping of POP1-binding site on pyrin domain of ASC. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 15390-8	3.4	39
46	Rapid intrachain binding of histidine-26 and histidine-33 to heme in unfolded ferrocytochrome C. <i>Biochemistry</i> , <b>2002</b> , 41, 1372-80	3.2	36
45	Effects of heme on the structure of the denatured state and folding kinetics of cytochrome b562. <i>Journal of Molecular Biology</i> , <b>2005</b> , 346, 331-44	6.5	33
44	Kinetics of loop formation and breakage in the denatured state of iso-1-cytochrome c. <i>Journal of Molecular Biology</i> , <b>2005</b> , 353, 730-43	6.5	33
43	Comparison of the magnetic properties of deoxy- and photodissociated myoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1984</b> , 81, 2359-63	11.5	33
42	A cytochrome c mutant with high electron transfer and antioxidant activities but devoid of apoptogenic effect. <i>Biochemical Journal</i> , <b>2002</b> , 362, 749-54	3.8	32
41	Autoinhibitory interactions between the PDZ2 and C-terminal domains in the scaffolding protein NHERF1. <i>Structure</i> , <b>2009</b> , 17, 660-9	5.2	31
40	Folding mechanism of reduced Cytochrome c: equilibrium and kinetic properties in the presence of carbon monoxide. <i>Journal of Molecular Biology</i> , <b>2008</b> , 383, 437-53	6.5	29

39	Structure and Stability of Cytochrome c Folding Intermediates. <i>ACS Symposium Series</i> , <b>1991</b> , 50-63	0.4	29
38	A Native-like Intermediate Serves as a Branching Point between the Folding and Aggregation Pathways of the Mouse Prion Protein. <i>Structure</i> , <b>2015</b> , 23, 1735-1742	5.2	28
37	Microsecond folding dynamics of apomyoglobin at acidic pH. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7014-25	3.4	27
36	A single mutation in a regulatory protein produces evolvable allosterically regulated catalyst of nonnatural reaction. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6246-9	16.4	27
35	Gene network transitions in embryos depend upon interactions between a pioneer transcription factor and core histones. <i>Nature Genetics</i> , <b>2020</b> , 52, 418-427	36.3	26
34	Stepwise helix formation and chain compaction during protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 1793-4	11.5	26
33	Intrinsic disorder and oligomerization of the hepatitis delta virus antigen. <i>Virology</i> , <b>2010</b> , 407, 333-40	3.6	25
32	Ultrafast hydrogen exchange reveals specific structural events during the initial stages of folding of cytochrome c. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 733-40	16.4	24
31	Solution structure of the A4 domain of factor XI sheds light on the mechanism of zymogen activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 15693-8	11.5	24
30	SQUID measurement of metalloprotein magnetization. New methods applied to the nitrogenase proteins. <i>Biophysical Journal</i> , <b>1987</b> , 52, 837-53	2.9	23
29	Folding kinetics of staphylococcal nuclease studied by tryptophan engineering and rapid mixing methods. <i>Journal of Molecular Biology</i> , <b>2007</b> , 368, 244-55	6.5	21
28	Stability engineering of anti-EGFR scFv antibodies by rational design of a lambda-to-kappa swap of the VL framework using a structure-guided approach. <i>MAbs</i> , <b>2015</b> , 7, 1058-71	6.6	20
27	The evolutionarily conserved Dim1 protein defines a novel branch of the thioredoxin fold superfamily. <i>Physiological Genomics</i> , <b>1999</b> , 1, 109-18	3.6	20
26	H-ras Inhibits the Hippo Pathway by Promoting Mst1/Mst2 Heterodimerization. <i>Current Biology</i> , <b>2016</b> , 26, 1556-1563	6.3	20
25	The Tyrosine Kinase c-Src Specifically Binds to the Active Integrin $\alpha\text{IIb}\beta\text{3}$ to Initiate Outside-in Signaling in Platelets. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 15825-15834	5.4	18
24	Retroviral integrases promote fraying of viral DNA ends. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 25719-25	3.6	18
23	Early formation of a beta hairpin during folding of staphylococcal nuclease H124L as detected by pulsed hydrogen exchange. <i>Protein Science</i> , <b>2002</b> , 11, 82-91	6.3	18
22	Definition of amide protection factors for early kinetic intermediates in protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 4299-302	11.5	18

21	Mapping the epitope of an inhibitory monoclonal antibody to the C-terminal DNA-binding domain of HIV-1 integrase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 12164-74	5.4	17
20	Conformational equilibration time of unfolded protein chains and the folding speed limit. <i>Biochemistry</i> , <b>2007</b> , 46, 4090-9	3.2	16
19	Dimer dissociation and unfolding mechanism of coagulation factor XI apple 4 domain: spectroscopic and mutational analysis. <i>Journal of Molecular Biology</i> , <b>2007</b> , 367, 558-73	6.5	16
18	Microsecond unfolding kinetics of sheep prion protein reveals an intermediate that correlates with susceptibility to classical scrapie. <i>Biophysical Journal</i> , <b>2011</b> , 101, 1221-30	2.9	14
17	Localized solution structure refinement of an F45W variant of ubiquitin using stochastic boundary molecular dynamics and NMR distance restraints. <i>Protein Science</i> , <b>1995</b> , 4, 973-82	6.3	14
16	Template-constrained somatostatin analogues: a biphenyl linker induces a type-VUturn. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 12710-1	16.4	14
15	Folding of apocytochrome c induced by the interaction with negatively charged lipid micelles proceeds via a collapsed intermediate state. <i>Protein Science</i> , <b>1999</b> , 8, 381-93	6.3	11
14	Structure, stability, and function of hDim1 investigated by NMR, circular dichroism, and mutational analysis. <i>Biochemistry</i> , <b>2003</b> , 42, 9609-18	3.2	11
13	The effects of pK(a) tuning on the thermodynamics and kinetics of folding: design of a solvent-shielded carboxylate pair at the a-position of a coiled-coil. <i>Biophysical Journal</i> , <b>2010</b> , 99, 2299-308	3.9	10
12	Nonuniform chain collapse during early stages of staphylococcal nuclease folding detected by fluorescence resonance energy transfer and ultrarapid mixing methods. <i>Protein Science</i> , <b>2013</b> , 22, 1336-48	6.3	9
11	Early Events in Protein Folding Explored by Rapid Mixing Methods491-535		7
10	Slow folding-unfolding kinetics of an octameric Epeptide bundle. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 276-81	4.9	5
9	A Single Mutation in a Regulatory Protein Produces Evolvable Allosterically Regulated Catalyst of Nonnatural Reaction. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6366-6369	3.6	5
8	Structural and nucleic acid binding properties of hepatitis delta virus small antigen. <i>World Journal of Virology</i> , <b>2017</b> , 6, 26-35	6.9	5
7	Competition between reversible aggregation and loop formation in denatured iso-1-cytochrome c. <i>Biochemistry</i> , <b>2009</b> , 48, 481-91	3.2	5
6	Complex Folding Landscape of Apomyoglobin at Acidic pH Revealed by Ultrafast Kinetic Analysis of Core Mutants. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11228-11239	3.4	4
5	Relayed magnetization transfer by isotropic mixing in exchanging systems. <i>Journal of Magnetic Resonance</i> , <b>1988</b> , 78, 597-602		3
4	Effects of ionic strength on the folding and stability of SAMP1, a ubiquitin-like halophilic protein.. <i>Biophysical Journal</i> , <b>2022</b> ,	2.9	2

3	Energetics and kinetics of substrate analog-coupled staphylococcal nuclease folding revealed by a statistical mechanical approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19953-19962	11.5	1
2	Advances in Mixer Design and Detection Methods for Kinetics Studies of Macromolecular Folding and Binding on the Microsecond Time Scale. <i>Molecules</i> , <b>2022</b> , 27, 3392	4.8	0
1	NMR Structural Analysis of Factor XI Apple 4 Domain.. <i>Blood</i> , <b>2004</b> , 104, 1735-1735	2.2	