

GÃ¼nter Fritz

List of Publications by Year in descending order

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104
papers

7,824
citations

87888

38
h-index

51608

86
g-index

108
all docs

108
docs citations

108
times ranked

10272
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast fragment- and compound-screening pipeline at the Swiss Light Source. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 328-336.	2.3	11
2	AgeR deletion decreases soluble fms-like tyrosine kinase 1 production and improves post-ischemic angiogenesis in uremic mice. <i>Angiogenesis</i> , 2021, 24, 47-55.	7.2	1
3	Cu ²⁺ -binding to S100B triggers polymerization of disulfide cross-linked tetramers with enhanced chaperone activity against amyloid- β aggregation. <i>Chemical Communications</i> , 2021, 57, 379-382.	4.1	6
4	A Sodium-Translocating Module Linking Succinate Production to Formation of Membrane Potential in <i>Prevotella bryantii</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0121121.	3.1	10
5	Dynamic interactions and Ca ²⁺ -binding modulate the holdase-type chaperone activity of S100B preventing tau aggregation and seeding. <i>Nature Communications</i> , 2021, 12, 6292.	12.8	10
6	Central Carbon Metabolism, Sodium-Motive Electron Transfer, and Ammonium Formation by the Vaginal Pathogen <i>Prevotella bivia</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 11925.	4.1	5
7	Impact of Na ⁺ -Translocating NADH:Quinone Oxidoreductase on Iron Uptake and σ Expression in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	4
8	Prothrombin is a binding partner of the human receptor of advanced glycation end products. <i>Journal of Biological Chemistry</i> , 2020, 295, 12498-12511.	3.4	5
9	Receptor for Advanced Glycation End Products is Involved in Platelet Hyperactivation and Arterial Thrombosis during Chronic Kidney Disease. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1300-1312.	3.4	5
10	Concise Synthesis of 1,4-Benzoquinone-Based Natural Products as Mitochondrial Complex I Substrates and Substrate-Based Inhibitors. <i>ChemMedChem</i> , 2020, 15, 2491-2499.	3.2	2
11	Anoxic cell rupture of <i>Prevotella bryantii</i> by high-pressure homogenization protects the Na ⁺ -translocating NADH:quinone oxidoreductase from oxidative damage. <i>Archives of Microbiology</i> , 2020, 202, 1263-1266.	2.2	3
12	Cryo-EM structure of a transthyretin-derived amyloid fibril from a patient with hereditary ATTR amyloidosis. <i>Nature Communications</i> , 2019, 10, 5008.	12.8	127
13	Altered Notch Signaling in Dowling-Degos Disease: Additional Mutations in POGlut1 and Further Insights into Disease Pathogenesis. <i>Journal of Investigative Dermatology</i> , 2019, 139, 960-964.	0.7	15
14	Respiratory Membrane Protein Complexes Convert Chemical Energy. <i>Sub-Cellular Biochemistry</i> , 2019, 92, 301-335.	2.4	5
15	Cryo-EM structure of a light chain-derived amyloid fibril from a patient with systemic AL amyloidosis. <i>Nature Communications</i> , 2019, 10, 1103.	12.8	120
16	Receptor for advanced glycation end products: a key molecule in the genesis of chronic kidney disease vascular calcification and a potential modulator of sodium phosphate co-transporter PIT-1 expression. <i>Nephrology Dialysis Transplantation</i> , 2019, 34, 2018-2030.	0.7	28
17	How USP 18 deals with ISC 15-modified proteins: structural basis for the specificity of the protease. <i>FEBS Journal</i> , 2018, 285, 1024-1029.	4.7	17
18	<i>Vibrio natriegens</i> as Host for Expression of Multisubunit Membrane Protein Complexes. <i>Frontiers in Microbiology</i> , 2018, 9, 2537.	3.5	33

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19	The neuronal S100B protein is a calcium-tuned suppressor of amyloid-Î² aggregation. <i>Science Advances</i> , 2018, 4, eaaq1702.	10.3	49
20	USP18 â€“ a multifunctional component in the interferon response. <i>Bioscience Reports</i> , 2018, 38, .	2.4	61
21	A capture method based on the VC1 domain reveals new binding properties of the human receptor for advanced glycation end products (RAGE). <i>Redox Biology</i> , 2017, 11, 275-285.	9.0	16
22	Structural basis of the specificity of USP18 toward ISG15. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 270-278.	8.2	85
23	A miniaturized assay for kinetic characterization of the Na ⁺ -translocating NADH:ubiquinone oxidoreductase from <i>Vibrio cholerae</i> . <i>Analytical Biochemistry</i> , 2017, 537, 56-59.	2.4	0
24	Strong pH dependence of coupling efficiency of the Na ⁺ -translocating NADH:quinone oxidoreductase (Na ⁺ -NQR) of <i>Vibrio cholerae</i> . <i>Biological Chemistry</i> , 2017, 398, 251-260.	2.5	9
25	Sodium as Coupling Cation in Respiratory Energy Conversion. <i>Metal Ions in Life Sciences</i> , 2016, 16, 349-390.	2.8	3
26	The Mouse-Specific Splice Variant mRAGE_v4 Encodes a Membrane-Bound RAGE That Is Resistant to Shedding and Does Not Contribute to the Production of Soluble RAGE. <i>PLoS ONE</i> , 2016, 11, e0153832.	2.5	6
27	Identification of a novel mutation in <i>RIPK4</i> in a kindred with phenotypic features of Bartsocasâ€™Papas and CHAND syndromes. <i>American Journal of Medical Genetics, Part A</i> , 2015, 167, 2555-2562.	1.2	11
28	Sulfate to go. <i>Science</i> , 2015, 350, 1476-1477.	12.6	5
29	Pathogenicity of POFUT1 in Dowling-Degos Disease: Additional Mutations and Clinical Overlap with Reticulate Acropigmentation of Kitamura. <i>Journal of Investigative Dermatology</i> , 2015, 135, 615-618.	0.7	25
30	An improved expression system for the VC1 ligand binding domain of the receptor for advanced glycation end products in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2015, 114, 48-57.	1.3	8
31	The structure of Na ⁺ -translocating of NADH:ubiquinone oxidoreductase of <i>Vibrio cholerae</i> : implications on coupling between electron transfer and Na ⁺ transport. <i>Biological Chemistry</i> , 2015, 396, 1015-1030.	2.5	27
32	USP18 lack in microglia causes destructive interferonopathy of the mouse brain. <i>EMBO Journal</i> , 2015, 34, 1612-1629.	7.8	178
33	The Receptor for Advanced Glycation End-Products (RAGE) Is Only Present in Mammals, and Belongs to a Family of Cell Adhesion Molecules (CAMs). <i>PLoS ONE</i> , 2014, 9, e86903.	2.5	115
34	Structure of the <i>V. cholerae</i> Na ⁺ -pumping NADH:quinone oxidoreductase. <i>Nature</i> , 2014, 516, 62-67.	27.8	107
35	Structural Heterogeneity and Bioimaging of S100 Amyloid Assemblies. , 2014, , 197-212.		4
36	Central role of the Na ⁺ -translocating NADH:quinone oxidoreductase (Na ⁺ -NQR) in sodium bioenergetics of <i>Vibrio cholerae</i> . <i>Biological Chemistry</i> , 2014, 395, 1389-1399.	2.5	29

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37	Molecular characterization of ubiquitinâ€specific protease 18 reveals substrate specificity for interferonâ€stimulated gene 15. <i>FEBS Journal</i> , 2014, 281, 1918-1928.	4.7	48
38	Crystallization and preliminary analysis of the NqrA and NqrC subunits of the Na ⁺ -translocating NADH:ubiquinone oxidoreductase from <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 987-992.	0.8	13
39	Mutations in POGlut1, Encoding Protein O-Glucosyltransferase 1, Cause Autosomal-Dominant Dowling-Degos Disease. <i>American Journal of Human Genetics</i> , 2014, 94, 135-143.	6.2	136
40	RAGE regulation and signaling in inflammation and beyond. <i>Journal of Leukocyte Biology</i> , 2013, 94, 55-68.	3.3	336
41	¹ H, ¹³ C, and ¹⁵ N resonance assignments of the second immunoglobulin domain of neuroilin from <i>Carassius auratus</i> . <i>Biomolecular NMR Assignments</i> , 2013, 7, 65-67.	0.8	0
42	Molecular basis for manganese sequestration by calprotectin and roles in the innate immune response to invading bacterial pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3841-3846.	7.1	325
43	Microglia emerge from erythromyeloid precursors via Pu.1- and Irf8-dependent pathways. <i>Nature Neuroscience</i> , 2013, 16, 273-280.	14.8	1,121
44	Conserving energy with sulfate around 100 Å°C â€ structure and mechanism of key metal enzymes in hyperthermophilic <i>Archaeoglobus fulgidus</i> . <i>Metallomics</i> , 2013, 5, 302.	2.4	26
45	Intrinsically Disordered and Aggregation Prone Regions Underlie Î²-Aggregation in S100 Proteins. <i>PLoS ONE</i> , 2013, 8, e76629.	2.5	22
46	X-ray Structural Analysis of S100 Proteins. <i>Methods in Molecular Biology</i> , 2013, 963, 87-97.	0.9	3
47	HMGB1 conveys immunosuppressive characteristics on regulatory and conventional T cells. <i>International Immunology</i> , 2012, 24, 485-494.	4.0	85
48	Analysis of S100 Oligomers and Amyloids. <i>Methods in Molecular Biology</i> , 2012, 849, 373-386.	0.9	23
49	Formin mDia1 Mediates Vascular Remodeling via Integration of Oxidative and Signal Transduction Pathways. <i>Circulation Research</i> , 2012, 110, 1279-1293.	4.5	78
50	S100A6 Amyloid Fibril Formation Is Calcium-modulated and Enhances Superoxide Dismutase-1 (SOD1) Aggregation. <i>Journal of Biological Chemistry</i> , 2012, 287, 42233-42242.	3.4	36
51	High yield expression of catalytically active USP18 (UBP43) using a Trigger Factor fusion system. <i>BMC Biotechnology</i> , 2012, 12, 56.	3.3	14
52	A multimodal RAGE-specific inhibitor reduces amyloid Î²â€mediated brain disorder in a mouse model of Alzheimer disease. <i>Journal of Clinical Investigation</i> , 2012, 122, 1377-1392.	8.2	507
53	The Catalytic Redox Activity of Prion Proteinâ€Cu ^{II} is Controlled by Metal Exchange with the Zn ^{II} â€Thiolate Clusters of Zn ₇ Metallothioneinâ€3. <i>ChemBioChem</i> , 2012, 13, 1261-1265.	2.6	18
54	The structure of Ca ²⁺ -loaded S100A2 at 1.3Å resolution. <i>FEBS Journal</i> , 2012, 279, 1799-1810.	4.7	9

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55	Low-resolution structure determination of Na ⁺ -translocating NADH:ubiquinone oxidoreductase from <i>Vibrio cholerae</i> by cryo-electron microscopy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 724-731.	2.5	4
56	Pattern Recognition with a Fibril-Specific Antibody Fragment Reveals the Surface Variability of Natural Amyloid Fibrils. <i>Journal of Molecular Biology</i> , 2011, 408, 529-540.	4.2	34
57	RAGE: a single receptor fits multiple ligands. <i>Trends in Biochemical Sciences</i> , 2011, 36, 625-632.	7.5	267
58	The crystal structures of human S100B in the zinc- and calcium-loaded state at three pH values reveal zinc ligand swapping. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 1083-1091.	4.1	43
59	Structural Basis for Ligand Recognition and Activation of RAGE. <i>Structure</i> , 2010, 18, 1342-1352.	3.3	195
60	Crystallization and calcium/sulfur SAD phasing of the human EF-hand protein S100A2. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1032-1036.	0.7	6
61	Crystallization of the Na ⁺ -translocating NADH:quinone oxidoreductase from <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1677-1679.	0.7	16
62	Natural and amyloid self-assembly of S100 proteins: structural basis of functional diversity. <i>FEBS Journal</i> , 2010, 277, 4578-4590.	4.7	115
63	The Family of S100 Cell Signaling Proteins. , 2010, , 983-993.		3
64	Localization and Function of the Membrane-bound Riboflavin in the Na ⁺ -translocating NADH:Quinone Oxidoreductase (Na ⁺ -NQR) from <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 27088-27099.	3.4	36
65	Generation and characterization of a novel, permanently active S100P mutant. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1078-1085.	4.1	7
66	Binding of S100 proteins to RAGE: An update. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 993-1007.	4.1	413
67	Metal ions modulate the folding and stability of the tumor suppressor protein S100A2. <i>FEBS Journal</i> , 2009, 276, 1776-1786.	4.7	29
68	The Na ⁺ -translocating NADH:quinone oxidoreductase (Na ⁺ -NQR) from <i>Vibrio cholerae</i> enhances insertion of FeS in overproduced NqrF subunit. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1366-1372.	3.5	5
69	V domain of RAGE interacts with AGEs on prostate carcinoma cells. <i>Prostate</i> , 2008, 68, 748-758.	2.3	45
70	Oxidant-induced formation of a neutral flavosemiquinone in the Na ⁺ -translocating NADH:Quinone oxidoreductase (Na ⁺ -NQR) from <i>Vibrio cholerae</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 696-702.	1.0	26
71	The deletion of amino acids 114-121 in the TM1 domain of mouse prion protein stabilizes its conformation but does not affect the overall structure. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1076-1084.	4.1	3
72	S4.28 Crystal structure of the NADH-oxidizing FAD domain from the Na ⁺ -translocating NADH:quinone oxidoreductase (Na ⁺ -NQR). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, S39.	1.0	2

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73	Crystal Structure of Ca ²⁺ -Free S100A2 at 1.6-Å... Resolution. <i>Journal of Molecular Biology</i> , 2008, 378, 933-942.	4.2	30
74	Expression and purification of neurolin immunoglobulin domain 2 from <i>Carrassius auratus</i> (goldfish) in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2008, 59, 47-54.	1.3	6
75	Living on Sulfate: Three-Dimensional Structure and Spectroscopy of Adenosine 5-Phosphosulfate Reductase and Dissimilatory Sulfite Reductase. , 2008, , 13-23.		1
76	S100B and S100A6 Differentially Modulate Cell Survival by Interacting with Distinct RAGE (Receptor) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2007, 282, 31317-31331.	3.4	234
77	Quinone Reduction by the Na ⁺ -Translocating NADH Dehydrogenase Promotes Extracellular Superoxide Production in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2007, 189, 3902-3908.	2.2	37
78	The Extracellular Region of the Receptor for Advanced Glycation End Products Is Composed of Two Independent Structural Units. <i>Biochemistry</i> , 2007, 46, 6957-6970.	2.5	156
79	Structural and functional insights into RAGE activation by multimeric S100B. <i>EMBO Journal</i> , 2007, 26, 3868-3878.	7.8	219
80	Implications on zinc binding to S100A2. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 457-470.	4.1	49
81	Reaction Mechanism of the Iron-Sulfur Flavoenzyme Adenosine-5-Phosphosulfate Reductase Based on the Structural Characterization of Different Enzymatic States. <i>Biochemistry</i> , 2006, 45, 2960-2967.	2.5	38
82	Expression and purification of the soluble isoform of human receptor for advanced glycation end products (sRAGE) from <i>Pichia pastoris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 4-11.	2.1	31
83	Crystallization of the NADH-oxidizing domain of the Na ⁺ -translocating NADH:ubiquinone oxidoreductase from <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 110-112.	0.7	11
84	Purification and crystallization of the human EF-hand tumour suppressor protein S100A2. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1120-1123.	0.7	6
85	Electron spin relaxation of copper(II) complexes in glassy solution between 10 and 120K. <i>Journal of Magnetic Resonance</i> , 2006, 179, 92-104.	2.1	48
86	Purification, crystallization and preliminary X-ray diffraction studies on human Ca ²⁺ -binding protein S100B. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 673-675.	0.7	16
87	NADH Oxidation by the Na ⁺ -translocating NADH:Quinone Oxidoreductase from <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 21349-21355.	3.4	51
88	S100 proteins in mouse and man: from evolution to function and pathology (including an update of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2003, 281, 750	2.1	750
89	Alzheimer Î ² -Amyloid Homodimers Facilitate AÎ ² Fibrillization and the Generation of Conformational Antibodies. <i>Journal of Biological Chemistry</i> , 2003, 278, 35317-35324.	3.4	64
90	The Family of S100 Cell Signaling Proteins. , 2003, , 87-93.		4

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91	The Function of the [4Fe-4S] Clusters and FAD in Bacterial and Archaeal Adenylylsulfate Reductases. <i>Journal of Biological Chemistry</i> , 2002, 277, 26066-26073.	3.4	47
92	The Crystal Structure of Metal-free Human EF-hand Protein S100A3 at 1.7-Å... Resolution. <i>Journal of Biological Chemistry</i> , 2002, 277, 33092-33098.	3.4	50
93	Structure of adenylylsulfate reductase from the hyperthermophilic <i>Archaeoglobus fulgidus</i> at 1.6-Å resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1836-1841.	7.1	78
94	The Presence of an Iron-Sulfur Cluster in Adenosine 5â€²-Phosphosulfate Reductase Separates Organisms Utilizing Adenosine 5â€²-Phosphosulfate and Phosphoadenosine 5â€²-Phosphosulfate for Sulfate Assimilation. <i>Journal of Biological Chemistry</i> , 2002, 277, 21786-21791.	3.4	96
95	Metal-free MIRAS phasing: structure of apo-S100A3. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1255-1261.	2.5	16
96	Inactivation of the Na ⁺ -translocating NADH:ubiquinone oxidoreductase from <i>Vibrio alginolyticus</i> by reactive oxygen species. <i>FEBS Journal</i> , 2002, 269, 1287-1292.	0.2	6
97	S100 proteins structure functions and pathology. <i>Frontiers in Bioscience - Landmark</i> , 2002, 7, d1356-1368.	3.0	327
98	Three-Dimensional Structure of the Nonaheme Cytochrome <i>c</i> from <i>Desulfovibrio desulfuricans</i> in the Fe(III) State at 1.89 Å... Resolution. <i>Biochemistry</i> , 2001, 40, 1308-1316.	2.5	27
99	Nonaheme Cytochrome <i>c</i> , a New Physiological Electron Acceptor for [Ni,Fe] Hydrogenase in the Sulfate-Reducing Bacterium <i>Desulfovibrio desulfuricans</i> : Primary Sequence, Molecular Parameters, and Redox Properties. <i>Biochemistry</i> , 2001, 40, 1317-1324.	2.5	27
100	Spectroscopic investigation and determination of reactivity and structure of the tetraheme cytochrome <i>c</i> ₃ from <i>Desulfovibrio desulfuricans</i> Essex 6. <i>FEBS Journal</i> , 2001, 268, 3028-3035.	0.2	27
101	Plant Adenosine 5â€²-Phosphosulfate Reductase Is a Novel Iron-Sulfur Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 42881-42886.	3.4	77
102	Crystallization and preliminary X-ray analysis of adenylylsulfate reductase from <i>Archaeoglobus fulgidus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 1673-1675.	2.5	5
103	Adenylylsulfate reductases from archaea and bacteria are 1:1 h ² -heterodimeric iron-sulfur flavoenzymes - high similarity of molecular properties emphasizes their central role in sulfur metabolism. <i>FEBS Letters</i> , 2000, 473, 63-66.	2.8	47
104	Probing the structure of the human Ca ²⁺ - and Zn ²⁺ -binding protein S100A3: spectroscopic investigations of its transition metal ion complexes, and three-dimensional structural model. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1448, 264-276.	4.1	38