

Bengt GÅrnan Karlsson

List of Publications by Year in descending order

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51
papers

2,204
citations

218677

26
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

2280
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure of the complex of plastocyanin and cytochrome f, determined by paramagnetic NMR and restrained rigid-body molecular dynamics. <i>Structure</i> , 1998, 6, 323-335.	3.3	307
2	Raman Spectroscopy as an Indicator of Cu-S Bond Length in Type 1 and Type 2 Copper Cysteinate Proteins. <i>Journal of the American Chemical Society</i> , 1994, 116, 11489-11498.	13.7	155
3	Reduction potentials and their pH dependence in site-directed-mutant forms of azurin from <i>Pseudomonas aeruginosa</i> . <i>FEBS Journal</i> , 1993, 212, 289-296.	0.2	152
4	Reorganization Energy of Blue Copper: Effects of Temperature and Driving Force on the Rates of Electron Transfer in Ruthenium- and Osmium-Modified Azurins. <i>Journal of the American Chemical Society</i> , 1997, 119, 9921-9922.	13.7	141
5	Using NMR metabolomics to identify responses of an environmental estrogen in blood plasma of fish. <i>Aquatic Toxicology</i> , 2006, 78, 341-349.	4.0	116
6	Expression of the blue copper protein azurin from <i>Pseudomonas aeruginosa</i> in <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1989, 246, 211-217.	2.8	105
7	Cassette mutagenesis of Met121 in azurin from <i>Pseudomonas aeruginosa</i> . <i>Protein Engineering, Design and Selection</i> , 1991, 4, 343-349.	2.1	96
8	Structural Information through NMR Hyperfine Shifts in Blue Copper Proteins. <i>Journal of the American Chemical Society</i> , 2000, 122, 3701-3707.	13.7	95
9	Reduction potentials of blue and purple copper proteins in their unfolded states: a closer look at rack-induced coordination. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 367-370.	2.6	83
10	Rack-induced bonding in blue copper proteins: Spectroscopic properties and reduction potential of the azurin mutant Met-121 \rightarrow Leu. <i>FEBS Letters</i> , 1989, 253, 99-102.	2.8	73
11	The effect of redox state on the folding free energy of azurin. <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 368-371.	2.6	69
12	Optimized in vitro and in vivo expression of proteorhodopsin: A seven-transmembrane proton pump. <i>Protein Expression and Purification</i> , 2008, 58, 103-113.	1.3	55
13	Highly Efficient NMR Assignment of Intrinsically Disordered Proteins: Application to B- and T Cell Receptor Domains. <i>PLoS ONE</i> , 2013, 8, e62947.	2.5	44
14	<i>GREM1</i> and <i>POLE</i> variants in hereditary colorectal cancer syndromes. <i>Genes Chromosomes and Cancer</i> , 2016, 55, 95-106.	2.8	40
15	NMR Analysis of the Transient Complex between Membrane Photosystem I and Soluble Cytochrome c6. <i>Journal of Biological Chemistry</i> , 2005, 280, 7925-7931.	3.4	37
16	Effects of Codon Usage and Vector-Host Combinations on the Expression of Spinach Plastocyanin in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 1997, 11, 17-25.	1.3	36
17	Aromatic Residues May Enhance Intramolecular Electron Transfer in Azurin. <i>Journal of the American Chemical Society</i> , 1997, 119, 5453-5454.	13.7	35
18	X-ray absorption spectroscopy of folded and unfolded copper(I) azurin. <i>Inorganica Chimica Acta</i> , 2000, 297, 278-282.	2.4	35

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19	The structural gene for cytochromec551fromPseudomonas aeruginosa. FEBS Letters, 1990, 259, 230-232.	2.8	34
20	Expression screening of membrane proteins with cell-free protein synthesis. Protein Expression and Purification, 2012, 82, 218-225.	1.3	34
21	NMR detection of multiple transitions to low-populated states in azurin. Protein Science, 2003, 12, 56-65.	7.6	32
22	X-ray Structure of Domain I of the Proton-pumping Membrane Protein Transhydrogenase from Escherichia coli. Journal of Molecular Biology, 2005, 352, 299-312.	4.2	32
23	Mutant Met121Ala ofPseudomonas aeruginosaAzurin and Its Azide Derivative: Crystal Structures and Spectral Properties. Acta Crystallographica Section D: Biological Crystallography, 1996, 52, 950-958.	2.5	30
24	Identification and quantification of even and odd chained 5-n alkylresorcinols, branched chain-alkylresorcinols and methylalkylresorcinols in Quinoa (Chenopodium quinoa). Food Chemistry, 2017, 220, 344-351.	8.2	30
25	Novel Findings in Swedish Patients With MYH-Associated Polyposis: Mutation Detection and Clinical Characterization. Clinical Gastroenterology and Hepatology, 2006, 4, 499-506.	4.4	29
26	Structure of Metal Site in Azurin, Met 121 Mutants of Azurin, and Stellacyanin Investigated by 111m Cd Perturbed Angular Correlation (PAC). Journal of Biological Chemistry, 1995, 270, 573-580.	3.4	28
27	NMR characterization of the NADP(H)-binding domain ofEscherichia colitranshydrogenase: sequential assignment and global fold. FEBS Letters, 1999, 458, 180-184.	2.8	24
28	Metabolic profiles from two different breakfast meals characterized by 1 H NMR-based metabolomics. Food Chemistry, 2017, 231, 267-274.	8.2	23
29	Effects of a Novel Disulfide Bond and Engineered Electrostatic Interactions on the Thermostability of Azurin. Biochemistry, 2004, 43, 12563-12574.	2.5	20
30	NMR studies on the 46-kDa dimeric protein, 3,4-dihydroxy-2-butanone 4-phosphate synthase, using 2H, 13C, and 15N-labelling. FEBS Journal, 1999, 261, 57-65.	0.2	19
31	Apo-azurin folds via an intermediate that resembles the molten-globule. Protein Science, 2009, 13, 2628-2638.	7.6	19
32	Structure of the azurin mutant nickel-Trp48Met fromPseudomonas aeruginosaat 2.2 Å... resolution. Acta Crystallographica Section D: Biological Crystallography, 1995, 51, 711-717.	2.5	17
33	Reconstitution of the Anti-Apoptotic Bcl-2 Protein into Lipid Membranes and Biophysical Evidence for Its Detergent-Driven Association with the Pro-Apoptotic Bax Protein. PLoS ONE, 2013, 8, e61452.	2.5	16
34	The binding of TIA-1 to RNA C-rich sequences is driven by its C-terminal RRM domain. RNA Biology, 2014, 11, 766-776.	3.1	16
35	Serum nuclear magnetic resonance-based metabolomics and outcome in diffuse large B-cell lymphoma patients – a pilot study. Leukemia and Lymphoma, 2016, 57, 1814-1822.	1.3	16
36	RNA Binding of T-cell Intracellular Antigen-1 (TIA-1) C-terminal RNA Recognition Motif Is Modified by pH Conditions. Journal of Biological Chemistry, 2013, 288, 25986-25994.	3.4	15

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37	Expression and purification of full-length anti-apoptotic Bcl-2 using cell-free protein synthesis. <i>Protein Expression and Purification</i> , 2011, 77, 220-223.	1.3	12
38	Redox-sensitive loops D and E regulate NADP(H) binding in domain III and domain I-domain III interactions in proton-translocating <i>Escherichia coli</i> transhydrogenase. <i>FEBS Journal</i> , 2002, 269, 4505-4515.	0.2	11
39	Probing the influence on folding behavior of structurally conserved core residues in <i>P. aeruginosa</i> apo-azurin. <i>Protein Science</i> , 2009, 13, 2706-2715.	7.6	10
40	NMR Spectroscopic Analysis to Evaluate the Quality of Insulin: Concentration, Variability, and Excipient Content. <i>Journal of Diabetes Science and Technology</i> , 2020, 14, 180-184.	2.2	10
41	Surface interactions in the complex between cytochrome f and the E43Q/D44N and E59K/E60Q plastocyanin double mutants as determined by 1H-NMR chemical shift analysis. <i>Protein Science</i> , 2001, 10, 2623-2626.	7.6	10
42	Sequential assignment and secondary structure analysis of the NADP(H)-binding domain of <i>Escherichia coli</i> transhydrogenase. <i>Journal of Biomolecular NMR</i> , 1999, 14, 295-296.	2.8	8
43	Structure of <i>Pseudomonas aeruginosa</i> zinc azurin mutant Asn47Asp at 2.4 Å... resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1993, 49, 449-457.	2.5	6
44	Investigation of the copper binding sites in the Menkes disease protein, ATP7A. <i>Journal of Inherited Metabolic Disease</i> , 1998, 21, 195-198.	3.6	5
45	Occurrence, overexpression and partial purification of the protein (majastridin) corresponding to the URF6 gene of the <i>Rhodobacter blasticus</i> atp operon. <i>FEBS Journal</i> , 1998, 255, 87-92.	0.2	5
46	Structure of the N-terminal domain of the metalloprotease P rt V from <i>Vibrio cholerae</i> . <i>Protein Science</i> , 2015, 24, 2076-2080.	7.6	4
47	Combined Solution- and Magic Angle Spinning NMR Reveals Regions of Distinct Dynamics in Amyloid β^2 Protofibrils. <i>ChemistrySelect</i> , 2016, 1, 5850-5853.	1.5	4
48	High-affinity recognition of the human C-reactive protein independent of phosphocholine. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4644-4654.	2.8	4
49	Backbone resonance assignment of Staphylococcal Enterotoxin H. <i>Biomolecular NMR Assignments</i> , 2010, 4, 1-4.	0.8	3
50	Crystallization and preliminary crystallographic data for the azurin mutant End-121 from <i>Pseudomonas aeruginosa</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1994, 50, 37-39.	2.5	2
51	Solution structure of the calmodulin-like C-terminal domain of <i>Entamoeba histolytica</i> actinin2. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 461-466.	2.6	2