

Robert G Kranz

List of Publications by Year in descending order

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62
papers

2,755
citations

159585

30
h-index

182427

51
g-index

63
all docs

63
docs citations

63
times ranked

1913
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryo-EM of CcsBA reveals the basis for cytochrome c biogenesis and heme transport. <i>Nature Chemical Biology</i> , 2022, 18, 101-108.	8.0	14
2	In vitro reconstitution reveals major differences between human and bacterial cytochrome c synthases. <i>ELife</i> , 2021, 10, .	6.0	6
3	Photoferrotrophs Produce a PioAB Electron Conduit for Extracellular Electron Uptake. <i>MBio</i> , 2019, 10, .	4.1	40
4	Structurally Mapping Endogenous Heme in the CcmCDE Membrane Complex for Cytochrome c Biogenesis. <i>Journal of Molecular Biology</i> , 2018, 430, 1065-1080.	4.2	16
5	Structure-Function Analysis of the Bifunctional CcsBA Heme Exporter and Cytochrome c Synthetase. <i>MBio</i> , 2018, 9, .	4.1	15
6	Engineered holocytochrome <i>c</i> synthases that biosynthesize new cytochromes <i>c</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2235-2240.	7.1	14
7	Oxidized or Reduced Cytochrome c and Axial Ligand Variants All Form the Apoptosome in Vitro. <i>Biochemistry</i> , 2017, 56, 2766-2769.	2.5	9
8	Biosynthesis of Single Thioether c-Type Cytochromes Provides Insight into Mechanisms Intrinsic to Holocytochrome c Synthase (HCCS). <i>Biochemistry</i> , 2017, 56, 3337-3346.	2.5	5
9	Molecular Basis Behind Inability of Mitochondrial Holocytochrome c Synthase to Mature Bacterial Cytochromes. <i>Journal of Biological Chemistry</i> , 2016, 291, 17523-17534.	3.4	8
10	Heme Trafficking and Modifications during System I Cytochrome c Biogenesis: Insights from Heme Redox Potentials of Ccm Proteins. <i>Biochemistry</i> , 2016, 55, 3150-3156.	2.5	13
11	Mitochondrial cytochrome c biogenesis: no longer an enigma. <i>Trends in Biochemical Sciences</i> , 2015, 40, 446-455.	7.5	97
12	Mechanisms of Mitochondrial Holocytochrome c Synthase and the Key Roles Played by Cysteines and Histidine of the Heme Attachment Site, Cys-XX-Cys-His. <i>Journal of Biological Chemistry</i> , 2014, 289, 28795-28807.	3.4	22
13	Conserved Residues of the Human Mitochondrial Holocytochrome c Synthase Mediate Interactions with Heme. <i>Biochemistry</i> , 2014, 53, 5261-5271.	2.5	15
14	The CcmFH complex is the system I holocytochrome <i>c</i> synthetase: engineering cytochrome <i>c</i> maturation independent of CcmABCDE. <i>Molecular Microbiology</i> , 2014, 91, 996-1008.	2.5	23
15	Interaction of HoloCcmE with CcmF in Heme Trafficking and Cytochrome c Biosynthesis. <i>Journal of Molecular Biology</i> , 2014, 426, 570-585.	4.2	19
16	Human mitochondrial holocytochrome <i>c</i> synthase's heme binding, maturation determinants, and complex formation with cytochrome <i>c</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E788-97.	7.1	42
17	A Nitrogen-Regulated Glutamine Amidotransferase (GAT1_2.1) Represses Shoot Branching in <i>Arabidopsis</i> A. <i>Plant Physiology</i> , 2012, 160, 1770-1780.	4.8	23
18	Thiol redox requirements and substrate specificities of recombinant cytochrome c assembly systems II and III. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 911-919.	1.0	14

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19	Substrate specificity of three cytochrome <i>c</i> haem lyase isoenzymes from <i>Wolinella succinogenes</i> : unconventional haem binding motifs are not sufficient for haem attachment by NrfI and CcsA1. <i>Molecular Microbiology</i> , 2010, 75, 122-137.	2.5	39
20	The CcmC:Heme:CcmE Complex in Heme Trafficking and Cytochrome <i>c</i> Biosynthesis. <i>Journal of Molecular Biology</i> , 2010, 401, 350-362.	4.2	48
21	Essential histidine pairs indicate conserved haem binding in epsilonproteobacterial cytochrome <i>c</i> haem lyases. <i>Microbiology (United Kingdom)</i> , 2010, 156, 3773-3781.	1.8	16
22	Cytochrome <i>c</i> Biogenesis: Mechanisms for Covalent Modifications and Trafficking of Heme and for Heme-Iron Redox Control. <i>Microbiology and Molecular Biology Reviews</i> , 2009, 73, 510-528.	6.6	224
23	CcsBA is a cytochrome <i>c</i> synthetase that also functions in heme transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10201-10206.	7.1	67
24	CPC, a Single-Repeat R3 MYB, Is a Negative Regulator of Anthocyanin Biosynthesis in Arabidopsis. <i>Molecular Plant</i> , 2009, 2, 790-802.	8.3	229
25	A conserved haem redox and trafficking pathway for cofactor attachment. <i>EMBO Journal</i> , 2009, 28, 2349-2359.	7.8	58
26	Topology and Function of CcmD in Cytochrome <i>c</i> Maturation. <i>Journal of Bacteriology</i> , 2008, 190, 3489-3493.	2.2	27
27	The Cytochrome <i>c</i> Maturation Components CcmF, CcmH, and CcmI Form a Membrane-integral Multisubunit Heme Ligation Complex. <i>Journal of Biological Chemistry</i> , 2008, 283, 29715-29722.	3.4	39
28	Reciprocal Leaf and Root Expression of AtAmt1.1 and Root Architectural Changes in Response to Nitrogen Starvation. <i>Plant Physiology</i> , 2007, 143, 236-250.	4.8	52
29	Heme Concentration Dependence and Metalloporphyrin Inhibition of the System I and II Cytochrome <i>c</i> Assembly Pathways. <i>Journal of Bacteriology</i> , 2007, 189, 455-463.	2.2	41
30	Recombinant cytochromes <i>c</i> biogenesis systems I and II and analysis of haem delivery pathways in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2006, 60, 563-577.	2.5	80
31	ABC transporter-mediated release of a haem chaperone allows cytochrome biogenesis. <i>Molecular Microbiology</i> , 2006, 61, 219-231.	2.5	76
32	Overproduction of CcmG and CcmFH Rc Fully Suppresses the <i>c</i> -Type Cytochrome Biogenesis Defect of <i>Rhodobacter capsulatus</i> CcmI-Null Mutants. <i>Journal of Bacteriology</i> , 2005, 187, 4245-4256.	2.2	32
33	Mutations in Cytochrome Assembly and Periplasmic Redox Pathways in <i>Bordetella pertussis</i> . <i>Journal of Bacteriology</i> , 2005, 187, 3941-3949.	2.2	31
34	<i>Rhodobacter capsulatus</i> nifA1 Promoter: High-GC ≈ 10 Regions in High-GC Bacteria and the Basis for Their Transcription. <i>Journal of Bacteriology</i> , 2004, 186, 740-749.	2.2	7
35	Chemiluminescent-based methods to detect subpicomole levels of <i>c</i> -type cytochromes. <i>Analytical Biochemistry</i> , 2003, 315, 90-94.	2.4	80
36	RNA Polymerase Subunit Requirements for Activation by the Enhancer-binding Protein <i>Rhodobacter capsulatus</i> NtrC. <i>Journal of Biological Chemistry</i> , 2003, 278, 31701-31708.	3.4	15

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37	Genomic analyses of bacterial respiratory and cytochrome c assembly systems: Bordetella as a model for the System A cytochrome c biogenesis pathway. <i>Research in Microbiology</i> , 2002, 153, 1-6.	2.1	37
38	Overexpression of ccl1 ² can bypass the need for the putative apocytochrome chaperone Cych during the biogenesis of c-type cytochromes. <i>Molecular Microbiology</i> , 2002, 46, 1069-1080.	2.5	17
39	ABC transporters associated with cytochrome c biogenesis. <i>Research in Microbiology</i> , 2001, 152, 323-329.	2.1	41
40	Urea Utilization in the Phototrophic Bacterium <i>Rhodobacter capsulatus</i> Is Regulated by the Transcriptional Activator NtrC. <i>Journal of Bacteriology</i> , 2001, 183, 637-643.	2.2	27
41	Four genes are required for the system II cytochromec biogenesis pathway in <i>Bordetella pertussis</i> , a unique bacterial model. <i>Molecular Microbiology</i> , 2000, 38, 465-481.	2.5	79
42	Oxidation~Reduction Properties of Disulfide-Containing Proteins of the <i>Rhodobacter capsulatus</i> Cytochrome c Biogenesis System. <i>Biochemistry</i> , 2000, 39, 10172-10176.	2.5	38
43	In vitro activation and repression of photosynthesis gene transcription in <i>Rhodobacter capsulatus</i> . <i>Molecular Microbiology</i> , 1999, 33, 429-437.	2.5	29
44	Evolution and horizontal transfer of an entire biosynthetic pathway for cytochromec biogenesis: <i>Helicobacter</i> , <i>Deinococcus</i> , <i>Archae</i> and more. <i>Molecular Microbiology</i> , 1998, 27, 871-873.	2.5	39
45	Micellar mechanisms of cytochromec biogenesis: three distinct systems. <i>Molecular Microbiology</i> , 1998, 29, 383-396.	2.5	266
46	Translational activation by an NtrC enhancer-binding protein 1 Edited by K. Yamamoto. <i>Journal of Molecular Biology</i> , 1998, 278, 903-914.	4.2	21
47	Characterization of the <i>Rhodobacter capsulatus</i> Housekeeping RNA Polymerase. <i>Journal of Biological Chemistry</i> , 1997, 272, 27266-27273.	3.4	29
48	Molecular and immunological analysis of an ABC transporter complex required for cytochrome c biogenesis. <i>Journal of Molecular Biology</i> , 1997, 268, 724-738.	4.2	76
49	A thioriduction pathway tethered to the membrane for periplasmic cytochromes c biogenesis; in vitro and in vivo studies. <i>Journal of Molecular Biology</i> , 1997, 271, 679-692.	4.2	77
50	In Vitro Reconstitution and Characterization of the <i>Rhodobacter capsulatus</i> NtrB and NtrC Two-component System. <i>Journal of Biological Chemistry</i> , 1996, 271, 6530-6536.	3.4	28
51	Structure and expression of the alternative sigma factor, RpoN, in <i>Rhodobacter capsulatus</i> ; physiological relevance of an autoactivated nifU2-rpoN superoperon. <i>Molecular Microbiology</i> , 1994, 11, 51-65.	2.5	51
52	Sequence, genetic, and lacZ fusion analyses of a nifR3?ntrB?ntrC operon in <i>Rhodobacter capsulatus</i> . <i>Molecular Microbiology</i> , 1993, 8, 903-914.	2.5	46
53	DNA gyrase activities from <i>Rhodobacter capsulatus</i> : analysis of target(s) of coumarins and cloning of the gyrB locus. <i>FEMS Microbiology Letters</i> , 1992, 93, 25-32.	1.8	7
54	Analysis of the promoters and upstream sequences of nifA1 and nifA2 in <i>Rhodobacter capsulatus</i> ; activation requires ntrC but not rpoN. <i>Molecular Microbiology</i> , 1992, 6, 1049-1060.	2.5	67

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55	DNA gyrase activities from <i>Rhodobacter capsulatus</i> : analysis of target(s) of coumarins and cloning of the <i>gyrB</i> locus. <i>FEMS Microbiology Letters</i> , 1992, 93, 25-32.	1.8	5
56	A bacterial homolog to the mitochondrial enoyl-CoA hydratase. <i>Gene</i> , 1991, 107, 171-172.	2.2	17
57	Ammonia-constitutive nitrogen fixation mutants of <i>rhodobacter capsulatus</i> . <i>Gene</i> , 1988, 71, 65-74.	2.2	21
58	Characterization of monoclonal antibodies directed against pyruvate oxidase from <i>Escherichia coli</i> : Modulation of antibody-induced inhibition by enzyme conformation. <i>Biochemical and Biophysical Research Communications</i> , 1986, 137, 884-891.	2.1	0
59	Isolation and organization of genes for nitrogen fixation in <i>Rhodopseudomonas capsulata</i> . <i>Molecular Genetics and Genomics</i> , 1985, 201, 363-369.	2.4	63
60	Characterization of <i>nif</i> regulatory genes in <i>Rhodopseudomonas capsulata</i> using <i>lac</i> gene fusions. <i>Gene</i> , 1985, 40, 203-215.	2.2	87
61	Immunochemical analysis of the membrane-bound succinate dehydrogenase of <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1982, 142, 81-87.	2.8	5
62	A quantitative radioimmunological screening method for specific gene products. <i>Analytical Biochemistry</i> , 1982, 127, 247-257.	2.4	25