

Thomas O Baldwin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10529432/publications.pdf>

Version: 2024-02-01

68
papers

2,803
citations

147566

31
h-index

174990

52
g-index

68
all docs

68
docs citations

68
times ranked

1508
citing authors

#	ARTICLE	IF	CITATIONS
1	Cotranslational Protein Folding. <i>Journal of Biological Chemistry</i> , 1997, 272, 32715-32718.	1.6	202
2	Cloning of the luciferase structural genes from <i>Vibrio harveyi</i> and expression of bioluminescence in <i>Escherichia coli</i> . <i>Biochemistry</i> , 1984, 23, 3663-3667.	1.2	159
3	Transcriptional regulation of bioluminescence genes from <i>Vibrio fischeri</i> . <i>Molecular Microbiology</i> , 1995, 17, 801-812.	1.2	145
4	[14] Bacterial luciferase: Assay, purification, and properties. <i>Methods in Enzymology</i> , 1978, , 135-152.	0.4	140
5	The 1.5-Å... Resolution Crystal Structure of Bacterial Luciferase in Low Salt Conditions. <i>Journal of Biological Chemistry</i> , 1996, 271, 21956-21968.	1.6	122
6	Biochemistry of Bacterial Bioluminescence. <i>Current Topics in Bioenergetics</i> , 1981, , 65-113.	2.7	117
7	Three-dimensional structure of bacterial luciferase from <i>Vibrio harveyi</i> at 2.4 Å resolution. <i>Biochemistry</i> , 1995, 34, 6581-6586.	1.2	109
8	Luciferase from the East European firefly <i>Luciola mingrelica</i> : Cloning and nucleotide sequence of the cDNA, overexpression in <i>Escherichia coli</i> and purification of the enzyme. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1993, 1173, 121-132.	2.4	97
9	Nucleotide sequence of the luxR and luxI genes and structure of the primary regulatory region of the lux regulon of <i>Vibrio fischeri</i> ATCC 7744. <i>Biochemistry</i> , 1988, 27, 837-842.	1.2	94
10	Crystal Structure of the Bacterial Luciferase/Flavin Complex Provides Insight into the Function of the β^2 Subunit. <i>Biochemistry</i> , 2009, 48, 6085-6094.	1.2	92
11	Firefly luciferase: the structure is known, but the mystery remains. <i>Structure</i> , 1996, 4, 223-228.	1.6	87
12	Use of bacterial and firefly luciferases as reporter genes in DEAE-dextran-mediated transfection of mammalian cells. <i>Analytical Biochemistry</i> , 1992, 204, 315-323.	1.1	80
13	Kinetic partitioning during protein folding yields multiple native states. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 320-326.	3.6	68
14	Structure of bacterial luciferase. <i>Current Opinion in Structural Biology</i> , 1995, 5, 798-809.	2.6	68
15	Polypeptide folding and dimerization in bacterial luciferase occur by a concerted mechanism in vivo. <i>Biochemistry</i> , 1987, 26, 4917-4921.	1.2	54
16	Purified native subunits of bacterial luciferase are active in the bioluminescence reaction but fail to assemble into the α .. β structure. <i>Biochemistry</i> , 1993, 32, 5036-5044.	1.2	48
17	Effects of 3' end deletions from the <i>Vibrio harveyi</i> luxB gene on luciferase subunit folding and enzyme assembly: generation of temperature-sensitive polypeptide folding mutants. <i>Biochemistry</i> , 1988, 27, 2872-2880.	1.2	45
18	Fre Is the Major Flavin Reductase Supporting Bioluminescence from <i>Vibrio harveyi</i> Luciferase in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 8322-8328.	1.6	44

#	ARTICLE	IF	CITATIONS
19	A sensitive assay for proteolytic enzymes using bacterial luciferase as a substrate. <i>Analytical Biochemistry</i> , 1974, 61, 280-287.	1.1	43
20	Active center studies on bacterial luciferase: modification of the enzyme with 2,4-dinitrofluorobenzene. <i>Biochemistry</i> , 1981, 20, 512-517.	1.2	41
21	Stopped-flow kinetic analysis of the bacterial luciferase reaction. <i>Biochemistry</i> , 1992, 31, 3807-3813.	1.2	40
22	Kinetic Mechanism of Luciferase Subunit Folding and Assembly. <i>Biochemistry</i> , 1997, 36, 1891-1899.	1.2	40
23	Deuterium Kinetic Isotope Effects and the Mechanism of the Bacterial Luciferase Reaction. <i>Biochemistry</i> , 1998, 37, 2596-2606.	1.2	38
24	Proposed mechanism for the bacterial bioluminescence reaction involving a dioxirane intermediate. <i>Biochemical and Biophysical Research Communications</i> , 1989, 164, 1137-1142.	1.0	37
25	Carbon Monoxide Dehydrogenase from <i>Clostridium thermoaceticum</i> : Quaternary Structure, Stoichiometry of Its SDS-Induced Dissociation, and Characterization of the Faster-Migrating Form. <i>Biochemistry</i> , 1996, 35, 1965-1971.	1.2	37
26	Implications of N and C-Terminal Proximity for Protein Folding. <i>Journal of Molecular Biology</i> , 1996, 257, 175-187.	2.0	35
27	Pulsed-Alkylation Mass Spectrometry for the Study of Protein Folding and Dynamics: Development and Application to the Study of a Folding/Unfolding Intermediate of Bacterial Luciferase. <i>Biochemistry</i> , 2001, 40, 15153-15163.	1.2	35
28	Reversible inhibition of the bacterial luciferase catalyzed bioluminescence reaction by aldehyde substrate: kinetic mechanism and ligand effects. <i>Biochemistry</i> , 1983, 22, 2838-2846.	1.2	33
29	GroE modulates kinetic partitioning of folding intermediates between alternative states to maximize the yield of biologically active protein. <i>Journal of Molecular Biology</i> , 1997, 268, 712-723.	2.0	33
30	Isolation of bacterial luciferases by affinity chromatography on 2,2-diphenylpropylamine-Sepharose: phosphate-mediated binding to an immobilized substrate analog. <i>Biochemistry</i> , 1982, 21, 6194-6201.	1.2	32
31	The Hemoglobins of the Bullfrog, <i>Rana catesbeiana</i> . <i>Journal of Biological Chemistry</i> , 1974, 249, 6110-6118.	1.6	32
32	Bacterial luciferase: demonstration of a catalytically competent altered conformational state following a single turnover. <i>Biochemistry</i> , 1985, 24, 3942-3947.	1.2	31
33	Process of biosynthetic protein folding determines the rapid formation of native structure. <i>Journal of Molecular Biology</i> , 1999, 294, 579-586.	2.0	31
34	The effects of phosphate on the structure and stability of the luciferases from <i>Vibrio fischeri</i> . <i>Biochemical and Biophysical Research Communications</i> , 1980, 94, 1199-1206.	1.0	30
35	Structure of the <i>Vibrio fischeri</i> homodimer of bacterial luciferase from <i>Vibrio harveyi</i> : X-ray analysis of a kinetic protein folding trap. <i>Protein Science</i> , 1997, 6, 13-23.	3.1	29
36	[1] Protein folding and assembly in a cell-free expression system. <i>Methods in Enzymology</i> , 1998, 290, 1-17.	0.4	29

#	ARTICLE	IF	CITATIONS
37	Inactivation of luciferase from the luminous marine bacterium <i>Beneckea harveyi</i> by proteases: Evidence for a protease labile region and properties of the protein following inactivation. <i>Archives of Biochemistry and Biophysics</i> , 1980, 205, 554-563.	1.4	28
38	Random and site-directed mutagenesis of bacterial luciferase: investigation of the aldehyde binding site. <i>Biochemistry</i> , 1989, 28, 2684-2689.	1.2	27
39	Cloning and expression of the luxY gene from <i>Vibrio fischeri</i> strain Y-1 in <i>Escherichia coli</i> and complete amino acid sequence of the yellow fluorescent protein. <i>Biochemistry</i> , 1990, 29, 5509-5515.	1.2	27
40	Folding, Stability, and Physical Properties of the $\hat{1}\pm$ Subunit of Bacterial Luciferase. <i>Biochemistry</i> , 1999, 38, 16136-16145.	1.2	26
41	Functional Implications of the Unstructured Loop in the $(\hat{1}^2/\hat{1}\pm)$ 8 Barrel Structure of the Bacterial Luciferase $\hat{1}\pm$ Subunit. <i>Biochemistry</i> , 2001, 40, 15436-15443.	1.2	26
42	A plasmid vector and quantitative techniques for the study of transcription termination in <i>Escherichia coli</i> using bacterial luciferase. <i>Gene</i> , 1989, 75, 289-296.	1.0	25
43	Bacterial luciferase activity does not require a disulfide-dithiol conversion. <i>Archives of Biochemistry and Biophysics</i> , 1977, 179, 342-348.	1.4	22
44	Individual $\hat{1}\pm$ and $\hat{1}^2$ subunits of bacterial luciferase exhibit bioluminescence activity. <i>Biochemical and Biophysical Research Communications</i> , 1991, 178, 1188-1193.	1.0	21
45	Interaction of Bacterial Luciferase with 8-Substituted Flavin Mononucleotide Derivatives. <i>Journal of Biological Chemistry</i> , 1996, 271, 104-110.	1.6	21
46	Two Lysine Residues in the Bacterial Luciferase Mobile Loop Stabilize Reaction Intermediates. <i>Journal of Biological Chemistry</i> , 2009, 284, 32827-32834.	1.6	21
47	Analysis of the Bacterial Luciferase Mobile Loop by Replica-Exchange Molecular Dynamics. <i>Biophysical Journal</i> , 2010, 99, 4012-4019.	0.2	20
48	The binding and spectral alterations of oxidized flavin mononucleotide by bacterial luciferase. <i>Biochemical and Biophysical Research Communications</i> , 1974, 57, 1000-1005.	1.0	19
49	Modification of the reactive sulfhydryl of bacterial luciferase with spin-labeled maleimides. <i>Archives of Biochemistry and Biophysics</i> , 1980, 202, 499-506.	1.4	17
50	Binding of 2,2-diphenylpropylamine at the aldehyde site of bacterial luciferase increases the affinity of the reduced riboflavin 5'-phosphate site. <i>Biochemistry</i> , 1981, 20, 5524-5528.	1.2	17
51	Mutational Analysis of the Subunit Interface of <i>Vibrio harveyi</i> Bacterial Luciferase. <i>Biochemistry</i> , 2002, 41, 3906-3915.	1.2	16
52	Interaction between luciferases from various species of bioluminescent bacteria and the Yellow Fluorescent Protein of <i>Vibrio fischeri</i> strain Y-1. <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 1191-1198.	1.0	12
53	[9] Purification of bacterial luciferase by affinity methods. <i>Methods in Enzymology</i> , 1986, 133, 98-108.	0.4	9
54	[22] Active center-based immunoassay approach using bacterial luciferase. <i>Methods in Enzymology</i> , 1986, 133, 248-264.	0.4	9

#	ARTICLE	IF	CITATIONS
55	Protein folding in vivo: the importance of ribosomes. Nature Cell Biology, 1999, 1, E154-E155.	4.6	9
56	Overexpression of bacterial luciferase and purification from recombinant sources. Methods in Enzymology, 2000, 305, 135-152.	0.4	8
57	Demonstration of Two Independently Folding Domains in the $\hat{\pm}$ Subunit of Bacterial Luciferase by Preferential Ligand Binding-Induced Stabilization. Biochemistry, 2003, 42, 3105-3112.	1.2	5
58	[22] Bacterial luciferase as a generalized substrate for the assay of proteases. Methods in Enzymology, 1978, 57, 198-201.	0.4	4
59	Digitization of sedimentation equilibrium and velocity data for analysis by minicomputer. Analytical Biochemistry, 1982, 119, 62-72.	1.1	4
60	ACTIVE CENTER STUDIES ON BACTERIAL LUCIFERASE: MODIFICATION WITH METHYL METHANETHIOLSULFONATE. , 1981, , 155-160.		4
61	Purification of firefly luciferase from recombinant sources. Methods in Enzymology, 2000, 305, 180-188.	0.4	3
62	Recent progress in bioluminescence: cloning of the structural genes encoding bacterial luciferase, analysis of the encoded sequences, and crystallization of the enzyme. , 1984, , 345-358.		2
63	Reaction of bacterial luciferase from <i>Vibrio harveyi</i> with 8-substituted flavins. , 1984, , 785-788.		2
64	A rapid chromatographic method to separate the subunits of bacterial luciferase in urea-containing buffer. Methods in Enzymology, 2000, 305, 157-164.	0.4	1
65	Ph.D. in biochemistry (education)!. Biochemistry and Molecular Biology Education, 2008, 36, 251-252.	0.5	1
66	Chemiluminescence and Bioluminescence. , 2004, , 399-404.		0
67	ACTIVE CENTER STUDIES ON BACTERIAL LUCIFERASE: EVIDENCE THAT THE REACTIVE CYSTEINYL RESIDUE IS WITHIN THE PROTEASE-LABILE REGION OF THE $\hat{\pm}$ SUBUNIT. , 1981, , 121-128.		0
68	A Study of Subunit Folding and Dimer Assembly In Vivo. , 1990, , 77-86.		0