Thomas O Baldwin

List of Publications by Year in descending order

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68 papers 2,803 citations

147801 31 h-index 52 g-index

68 all docs 68
docs citations

68 times ranked 1508 citing authors

| # | Article | IF | Citations |
|----|--|------|-----------|
| 1 | Analysis of the Bacterial Luciferase Mobile Loop by Replica-Exchange Molecular Dynamics. Biophysical Journal, 2010, 99, 4012-4019. | 0.5 | 20 |
| 2 | Two Lysine Residues in the Bacterial Luciferase Mobile Loop Stabilize Reaction Intermediates. Journal of Biological Chemistry, 2009, 284, 32827-32834. | 3.4 | 21 |
| 3 | Fre Is the Major Flavin Reductase Supporting Bioluminescence from Vibrio harveyi Luciferase in Escherichia coli. Journal of Biological Chemistry, 2009, 284, 8322-8328. | 3.4 | 44 |
| 4 | Crystal Structure of the Bacterial Luciferase/Flavin Complex Provides Insight into the Function of the \hat{l}^2 Subunit. Biochemistry, 2009, 48, 6085-6094. | 2.5 | 92 |
| 5 | Ph.D. in biochemistry (education)!. Biochemistry and Molecular Biology Education, 2008, 36, 251-252. | 1.2 | 1 |
| 6 | Chemiluminescence and Bioluminescence. , 2004, , 399-404. | | 0 |
| 7 | Demonstration of Two Independently Folding Domains in the α Subunit of Bacterial Luciferase by Preferential Ligand Binding-Induced Stabilizationâ€. Biochemistry, 2003, 42, 3105-3112. | 2.5 | 5 |
| 8 | Mutational Analysis of the Subunit Interface of Vibrio harveyi Bacterial Luciferaseâ€,‡. Biochemistry, 2002, 41, 3906-3915. | 2.5 | 16 |
| 9 | Functional Implications of the Unstructured Loop in the $(\hat{l}^2\hat{l}\pm)$ 8 Barrel Structure of the Bacterial Luciferase $\hat{l}\pm$ Subunit. Biochemistry, 2001, 40, 15436-15443. | 2.5 | 26 |
| 10 | 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. Biochemistry, 2001, 40, 15153-15163. | 2.5 | 35 |
| 11 | A rapid chromatographic method to separate the subunits of bacterial luciferase in urea-containing buffer. Methods in Enzymology, 2000, 305, 157-164. | 1.0 | 1 |
| 12 | Purification of firefly luciferase from recombinant sources. Methods in Enzymology, 2000, 305, 180-188. | 1.0 | 3 |
| 13 | Overexpression of bacterial luciferase and purification from recombinant sources. Methods in Enzymology, 2000, 305, 135-152. | 1.0 | 8 |
| 14 | Protein folding in vivo: the importance of ribosomes. Nature Cell Biology, 1999, 1, E154-E155. | 10.3 | 9 |
| 15 | Folding, Stability, and Physical Properties of the α Subunit of Bacterial Luciferaseâ€. Biochemistry, 1999, 38, 16136-16145. | 2.5 | 26 |
| 16 | Process of biosynthetic protein folding determines the rapid formation of native structure. Journal of Molecular Biology, 1999, 294, 579-586. | 4.2 | 31 |
| 17 | Deuterium Kinetic Isotope Effects and the Mechanism of the Bacterial Luciferase Reactionâ€. Biochemistry, 1998, 37, 2596-2606. | 2.5 | 38 |
| 18 | [1] Protein folding and assembly in a cell-free expression system. Methods in Enzymology, 1998, 290, 1-17. | 1.0 | 29 |

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| 19 | Cotranslational Protein Folding. Journal of Biological Chemistry, 1997, 272, 32715-32718. | 3.4 | 202 |
| 20 | Kinetic Mechanism of Luciferase Subunit Folding and Assemblyâ€. Biochemistry, 1997, 36, 1891-1899. | 2.5 | 40 |
| 21 | GroE modulates kinetic partitioning of folding intermediates between alternative states to maximize the yield of biologically active protein. Journal of Molecular Biology, 1997, 268, 712-723. | 4.2 | 33 |
| 22 | Structure of the <i>β₂</i> homodimer of bacterial luciferase from <i>vibrio harveyi</i> Xâ€ray analysis of a kinetic protein folding trap. Protein Science, 1997, 6, 13-23. | 7.6 | 29 |
| 23 | Carbon Monoxide Dehydrogenase fromClostridium thermoaceticum:Â Quaternary Structure, Stoichiometry of Its SDS-Induced Dissociation, and Characterization of the Faster-Migrating Formâ€. Biochemistry, 1996, 35, 1965-1971. | 2.5 | 37 |
| 24 | Implications of N and C-Terminal Proximity for Protein Folding. Journal of Molecular Biology, 1996, 257, 175-187. | 4.2 | 35 |
| 25 | Firefly luciferase: the structure is known, but the mystery remains. Structure, 1996, 4, 223-228. | 3.3 | 87 |
| 26 | The 1.5-Ã Resolution Crystal Structure of Bacterial Luciferase in Low Salt Conditions. Journal of Biological Chemistry, 1996, 271, 21956-21968. | 3.4 | 122 |
| 27 | Interaction of Bacterial Luciferase with 8-Substituted Flavin Mononucleotide Derivatives. Journal of Biological Chemistry, 1996, 271, 104-110. | 3.4 | 21 |
| 28 | Transcriptional regulation of bioluminesence genes from Vibrio fischeri. Molecular Microbiology, 1995, 17, 801-812. | 2.5 | 145 |
| 29 | Structure of bacterial luciferase. Current Opinion in Structural Biology, 1995, 5, 798-809. | 5.7 | 68 |
| 30 | Three-dimensional structure of bacterial luciferase from Vibrio harveyi at 2.4 .ANG. resolution. Biochemistry, 1995, 34, 6581-6586. | 2.5 | 109 |
| 31 | Kinetic partitioning during protein folding yields multiple native states. Nature Structural and Molecular Biology, 1994, 1, 320-326. | 8.2 | 68 |
| 32 | Luciferase from the East European firefly Luciola mingrelica: Cloning and nucleotide sequence of the cDNA, overexpression in Escherichia coli and purification of the enzyme. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1993, 1173, 121-132. | 2.4 | 97 |
| 33 | Purified native subunits of bacterial luciferase are active in the bioluminescence reaction but fail to assemble into the .alphabeta. structure. Biochemistry, 1993, 32, 5036-5044. | 2.5 | 48 |
| 34 | Stopped-flow kinetic analysis of the bacterial luciferase reaction. Biochemistry, 1992, 31, 3807-3813. | 2.5 | 40 |
| 35 | Use of bacterial and firefly luciferases as reporter genes in DEAE-dextran-mediated transfection of mammalian cells. Analytical Biochemistry, 1992, 204, 315-323. | 2.4 | 80 |
| 36 | Individual \hat{l}_{\pm} and \hat{l}^{2} subunits of bacterial luciferase exhibit bioluminescence activity. Biochemical and Biophysical Research Communications, 1991, 178, 1188-1193. | 2.1 | 21 |

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| 37 | Cloning and expression of the luxY gene from Vibrio fischeri strain Y-1 in Escherichia coli and complete amino acid sequence of the yellow fluorescent protein. Biochemistry, 1990, 29, 5509-5515. | 2.5 | 27 |
| 38 | A Study of Subunit Folding and Dimer Assembly In Vivo. , 1990, , 77-86. | | 0 |
| 39 | A plasmid vector and quantitative techniques for the study of transcription termination in Escherichia coli using bacterial luciferase. Gene, 1989, 75, 289-296. | 2.2 | 25 |
| 40 | Random and site-directed mutagenesis of bacterial luciferase: investigation of the aldehyde binding site. Biochemistry, 1989, 28, 2684-2689. | 2.5 | 27 |
| 41 | Interaction between luciferases from various species of bioluminescent bacteria and the Yellow Fluorescent Protein of Vibrio fischeri strain Y-1. Biochemical and Biophysical Research Communications, 1989, 161, 1191-1198. | 2.1 | 12 |
| 42 | Proposed mechanism for the bacterial bioluminescence reaction involving a dioxirane intermediate. Biochemical and Biophysical Research Communications, 1989, 164, 1137-1142. | 2.1 | 37 |
| 43 | Nucleotide sequence of the luxR and luxI genes and structure of the primary regulatory region of the lux regulon of Vibrio fischeri ATCC 7744. Biochemistry, 1988, 27, 837-842. | 2.5 | 94 |
| 44 | Effects of 3' end deletions from the Vibrio harveyi luxB gene on luciferase subunit folding and enzyme assembly: generation of temperature-sensitive polypeptide folding mutants. Biochemistry, 1988, 27, 2872-2880. | 2.5 | 45 |
| 45 | Polypeptide folding and dimerization in bacterial luciferase occur by a concerted mechanism in vivo. Biochemistry, 1987, 26, 4917-4921. | 2.5 | 54 |
| 46 | [9] Purification of bacterial luciferase by affinity methods. Methods in Enzymology, 1986, 133, 98-108. | 1.0 | 9 |
| 47 | [22] Active center-based immunoassay approach using bacterial luciferase. Methods in Enzymology, 1986, 133, 248-264. | 1.0 | 9 |
| 48 | Bacterial luciferase: demonstration of a catalytically competent altered conformational state following a single turnover. Biochemistry, 1985, 24, 3942-3947. | 2.5 | 31 |
| 49 | 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 |
| 50 | Reaction of bacterial luciferase from Vibrio harveyi with 8-substituted flavins., 1984,, 785-788. | | 2 |
| 51 | Cloning of the luciferase structural genes from Vibrio harveyi and expression of bioluminescence in Escherichia coli. Biochemistry, 1984, 23, 3663-3667. | 2.5 | 159 |
| 52 | Reversible inhibition of the bacterial luciferase catalyzed bioluminescence reaction by aldehyde substrate: kinetic mechanism and ligand effects. Biochemistry, 1983, 22, 2838-2846. | 2.5 | 33 |
| 53 | Isolation of bacterial luciferases by affinity chromatography on 2,2-diphenylpropylamine-Sepharose: phosphate-mediated binding to an immobilized substrate analog. Biochemistry, 1982, 21, 6194-6201. | 2.5 | 32 |
| 54 | Digitization of sedimentation equilibrium and velocity data for analysis by minicomputer. Analytical Biochemistry, 1982, 119, 62-72. | 2.4 | 4 |

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| 55 | Active center studies on bacterial luciferase: modification of the enzyme with 2,4-dinitrofluorobenzene. Biochemistry, 1981, 20, 512-517. | 2.5 | 41 |
| 56 | Binding of 2,2-diphenylpropylamine at the aldehyde site of bacterial luciferase increases the affinity of the reduced riboflavin 5'-phosphate site. Biochemistry, 1981, 20, 5524-5528. | 2.5 | 17 |
| 57 | Biochemistry of Bacterial Bioluminescence. Current Topics in Bioenergetics, 1981, , 65-113. | 2.7 | 117 |
| 58 | ACTIVE CENTER STUDIES ON BACTERIAL LUCIFERASE: MODIFICATION WITH METHYL METHANETHIOLSULFONATE., 1981,, 155-160. | | 4 |
| 59 | ACTIVE CENTER STUDIES ON BACTERIAL LUCIFERASE: EVIDENCE THAT THE REACTIVE CYSTEINYL RESIDUE IS WITHIN THE PROTEASE-LABILE REGION OF THE α SUBUNIT. , 1981, , 121-128. | | 0 |
| 60 | Inactivation of luciferase from the luminous marine bacterium Beneckea harveyi by proteases: Evidence for a protease labile region and properties of the protein following inactivation. Archives of Biochemistry and Biophysics, 1980, 205, 554-563. | 3.0 | 28 |
| 61 | Modification of the reactive sulfhydryl of bacterial luciferase with spin-labeled maleimides. Archives of Biochemistry and Biophysics, 1980, 202, 499-506. | 3.0 | 17 |
| 62 | The effects of phosphate on the structure and stability of the luciferases from , , , , , . Biochemical and Biophysical Research Communications, 1980, 94, 1199-1206. | 2.1 | 30 |
| 63 | [14] Bacterial luciferase: Assay, purification, and properties. Methods in Enzymology, 1978, , 135-152. | 1.0 | 140 |
| 64 | [22] Bacterial luciferase as a generalized substrate for the assay of proteases. Methods in Enzymology, 1978, 57, 198-201. | 1.0 | 4 |
| 65 | Bacterial luciferase activity does not require a disulfide-dithiol conversion. Archives of Biochemistry and Biophysics, 1977, 179, 342-348. | 3.0 | 22 |
| 66 | A sensitive assay for proteolytic enzymes using bacterial luciferase as a substrate. Analytical Biochemistry, 1974, 61, 280-287. | 2.4 | 43 |
| 67 | The binding and spectral alterations of oxidized flavin mononucleotide by bacterial luciferase. Biochemical and Biophysical Research Communications, 1974, 57, 1000-1005. | 2.1 | 19 |
| 68 | The Hemoglobins of the Bullfrog, Rana catesbeiana. Journal of Biological Chemistry, 1974, 249, 6110-6118. | 3.4 | 32 |