

Susan S Golden

List of Publications by Year in descending order

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94
papers

8,435
citations

57631

44
h-index

54797

84
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124
all docs

124
docs citations

124
times ranked

5310
citing authors

#	ARTICLE	IF	CITATIONS
1	Circadian rhythms from multiple oscillators: lessons from diverse organisms. <i>Nature Reviews Genetics</i> , 2005, 6, 544-556.	7.7	1,205
2	Expression of a Gene Cluster <i>kaiABC</i> as a Circadian Feedback Process in Cyanobacteria. , 1998, 281, 1519-1523.		656
3	[12] Genetic engineering of the cyanobacterial chromosome. <i>Methods in Enzymology</i> , 1987, 153, 215-231.	0.4	378
4	<i>CikA</i> , a Bacteriophytochrome That Resets the Cyanobacterial Circadian Clock. <i>Science</i> , 2000, 289, 765-768.	6.0	295
5	A <i>KaiC</i> -Interacting Sensory Histidine Kinase, <i>SasA</i> , Necessary to Sustain Robust Circadian Oscillation in Cyanobacteria. <i>Cell</i> , 2000, 101, 223-233.	13.5	251
6	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , 2017, 32, 380-393.	1.4	237
7	Circadian Rhythms in Cyanobacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2015, 79, 373-385.	2.9	222
8	Light-Driven Changes in Energy Metabolism Directly Entrain the Cyanobacterial Circadian Oscillator. <i>Science</i> , 2011, 331, 220-223.	6.0	205
9	CYANOBACTERIAL CIRCADIEN RHYTHMS. <i>Annual Review of Plant Biology</i> , 1997, 48, 327-354.	14.2	191
10	Nonlinear partial differential equations and applications: Structure and function from the circadian clock protein <i>KaiA</i> of <i>Synechococcus elongatus</i> : A potential clock input mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15357-15362.	3.3	190
11	The essential gene set of a photosynthetic organism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6634-43.	3.3	166
12	A protein fold switch joins the circadian oscillator to clock output in cyanobacteria. <i>Science</i> , 2015, 349, 324-328.	6.0	157
13	Circadian Gating of the Cell Cycle Revealed in Single Cyanobacterial Cells. <i>Science</i> , 2010, 327, 1522-1526.	6.0	152
14	Structural basis of the day-night transition in a bacterial circadian clock. <i>Science</i> , 2017, 355, 1174-1180.	6.0	144
15	Broad-host-range vector system for synthetic biology and biotechnology in cyanobacteria. <i>Nucleic Acids Research</i> , 2014, 42, e136-e136.	6.5	141
16	Circadian clocks in prokaryotes. <i>Molecular Microbiology</i> , 1996, 21, 5-11.	1.2	140
17	Elevated ATPase Activity of <i>KaiC</i> Applies a Circadian Checkpoint on Cell Division in <i>Synechococcus elongatus</i> . <i>Cell</i> , 2010, 140, 529-539.	13.5	136
18	Application of bioluminescence to the study of circadian rhythms in cyanobacteria. <i>Methods in Enzymology</i> , 2000, 305, 527-542.	0.4	131

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19	The day/night switch in KaiC, a central oscillator component of the circadian clock of cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12825-12830.	3.3	126
20	Specialized Techniques for Site-Directed Mutagenesis in Cyanobacteria. Methods in Molecular Biology, 2007, 362, 155-171.	0.4	125
21	LdpA: a component of the circadian clock senses redox state of the cell. EMBO Journal, 2005, 24, 1202-1210.	3.5	119
22	The circadian oscillator in <i>Synechococcus elongatus</i> controls metabolite partitioning during diurnal growth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1916-25.	3.3	118
23	Circadian Programs in Cyanobacteria: Adaptiveness and Mechanism. Annual Review of Microbiology, 1999, 53, 389-409.	2.9	117
24	Unique attributes of cyanobacterial metabolism revealed by improved genome-scale metabolic modeling and essential gene analysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8344-E8353.	3.3	113
25	Light-regulated expression of the psbD gene family in <i>Synechococcus</i> sp. strain PCC 7942: evidence for the role of duplicated psbD genes in cyanobacteria. Molecular Genetics and Genomics, 1992, 232, 221-230.	2.4	109
26	Quinone sensing by the circadian input kinase of the cyanobacterial circadian clock. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17468-17473.	3.3	105
27	High-Throughput Functional Analysis of the <i>Synechococcus elongatus</i> PCC 7942 Genome. DNA Research, 2005, 12, 103-115.	1.5	97
28	Roles for Sigma Factors in Global Circadian Regulation of the Cyanobacterial Genome. Journal of Bacteriology, 2002, 184, 3530-3538.	1.0	94
29	Oxidized quinones signal onset of darkness directly to the cyanobacterial circadian oscillator. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17765-17769.	3.3	93
30	Cyanobacterial circadian clocks "timing is everything". Nature Reviews Microbiology, 2003, 1, 191-199.	13.6	91
31	A Hard Day's Night: Cyanobacteria in Diel Cycles. Trends in Microbiology, 2019, 27, 231-242.	3.5	89
32	Biochemical Properties of CikA, an Unusual Phytochrome-like Histidine Protein Kinase That Resets the Circadian Clock in <i>Synechococcus elongatus</i> PCC 7942. Journal of Biological Chemistry, 2003, 278, 19102-19110.	1.6	86
33	Sequence analysis and phylogenetic reconstruction of the genes encoding the large and small subunits of ribulose-1,5-bisphosphate carboxylase/oxygenase from the chlorophyllb-containing prokaryote <i>Prochlorothrix hollandica</i> . Journal of Molecular Evolution, 1991, 32, 379-395.	0.8	81
34	The KaiA protein of the cyanobacterial circadian oscillator is modulated by a redox-active cofactor. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5804-5809.	3.3	76
35	LdpA Encodes an Iron-Sulfur Protein Involved in Light-Dependent Modulation of the Circadian Period in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. Journal of Bacteriology, 2003, 185, 1415-1422.	1.0	73
36	The circadian clock and darkness control natural competence in cyanobacteria. Nature Communications, 2020, 11, 1688.	5.8	72

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37	NMR structure of the KaiC-interacting C-terminal domain of KaiA, a circadian clock protein: Implications for KaiA-KaiC interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1479-1484.	3.3	62
38	Structure, function, and mechanism of the core circadian clock in cyanobacteria. <i>Journal of Biological Chemistry</i> , 2018, 293, 5026-5034.	1.6	62
39	Phototaxis in a wild isolate of the cyanobacterium <i>Synechococcus elongatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12378-E12387.	3.3	61
40	Impairment of O-antigen production confers resistance to grazing in a model amoeba-cyanobacterium predator-prey system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16678-16683.	3.3	60
41	Gene Transfer in <i>Leptolyngbya</i> sp. Strain BL0902, a Cyanobacterium Suitable for Production of Biomass and Bioproducts. <i>PLoS ONE</i> , 2012, 7, e30901.	1.1	59
42	Genome-wide fitness assessment during diurnal growth reveals an expanded role of the cyanobacterial circadian clock protein KaiA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7174-E7183.	3.3	55
43	The Itty-Bitty Time Machine. <i>Advances in Genetics</i> , 2011, 74, 13-53.	0.8	54
44	Redox crisis underlies conditional light-dark lethality in cyanobacterial mutants that lack the circadian regulator, RpaA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E580-E589.	3.3	53
45	Detection of Rhythmic Bioluminescence From Luciferase Reporters in Cyanobacteria. <i>Methods in Molecular Biology</i> , 2007, 362, 115-129.	0.4	52
46	Cross-talk and regulatory interactions between the essential response regulator RpaB and cyanobacterial circadian clock output. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2198-2203.	3.3	51
47	Small secreted proteins enable biofilm development in the cyanobacterium <i>Synechococcus elongatus</i> . <i>Scientific Reports</i> , 2016, 6, 32209.	1.6	49
48	The pseudo-receiver domain of CikA regulates the cyanobacterial circadian input pathway. <i>Molecular Microbiology</i> , 2006, 60, 658-668.	1.2	48
49	Circadian expression of genes involved in the purine biosynthetic pathway of the cyanobacterium <i>Synechococcus</i> sp. strain PCC 7942. <i>Molecular Microbiology</i> , 1996, 20, 1071-1081.	1.2	46
50	mRNA stability is regulated by a coding region element and the unique 5' untranslated leader sequences of the three <i>Synechococcus psbA</i> transcripts. <i>Molecular Microbiology</i> , 1997, 24, 1131-1142.	1.2	45
51	Dynamic Localization of the Cyanobacterial Circadian Clock Proteins. <i>Current Biology</i> , 2014, 24, 1836-1844.	1.8	45
52	NOT Gate Genetic Circuits to Control Gene Expression in Cyanobacteria. <i>ACS Synthetic Biology</i> , 2017, 6, 2175-2182.	1.9	43
53	Self-replicating shuttle vectors based on pANS, a small endogenous plasmid of the unicellular cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Microbiology (United Kingdom)</i> , 2016, 162, 2029-2041.	0.7	41
54	Stability of the <i>Synechococcus elongatus</i> PCC 7942 circadian clock under directed anti-phase expression of the kai genes. <i>Microbiology (United Kingdom)</i> , 2005, 151, 2605-2613.	0.7	40

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55	Simplicity and complexity in the cyanobacterial circadian clock mechanism. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 619-625.	1.5	39
56	High-throughput interaction screens illuminate the role of c-di-AMP in cyanobacterial nighttime survival. <i>PLoS Genetics</i> , 2018, 14, e1007301.	1.5	39
57	Type 4 pili are dispensable for biofilm development in the cyanobacterium <i>Synechococcus elongatus</i> . <i>Environmental Microbiology</i> , 2017, 19, 2862-2872.	1.8	38
58	Proteins Found in a CikA Interaction Assay Link the Circadian Clock, Metabolism, and Cell Division in <i>Synechococcus elongatus</i> . <i>Journal of Bacteriology</i> , 2008, 190, 3738-3746.	1.0	34
59	Predicting the metabolic capabilities of <i>Synechococcus elongatus</i> PCC 7942 adapted to different light regimes. <i>Metabolic Engineering</i> , 2019, 52, 42-56.	3.6	34
60	Protein Extraction, Fractionation, and Purification From Cyanobacteria. <i>Methods in Molecular Biology</i> , 2007, 362, 365-373.	0.4	33
61	Giving Time Purpose: The <i>Synechococcus elongatus</i> Clock in a Broader Network Context. <i>Annual Review of Genetics</i> , 2015, 49, 485-505.	3.2	32
62	Reconstitution of an intact clock reveals mechanisms of circadian timekeeping. <i>Science</i> , 2021, 374, eabd4453.	6.0	32
63	Timekeeping in bacteria: the cyanobacterial circadian clock. <i>Current Opinion in Microbiology</i> , 2003, 6, 535-540.	2.3	31
64	Active output state of the <i>Synechococcus</i> Kai circadian oscillator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3849-57.	3.3	28
65	Roles for ClpXP in regulating the circadian clock in <i>Synechococcus elongatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7805-E7813.	3.3	26
66	Conserved relationship between psbH and petBD genes: presence of a shared upstream element in <i>Prochlorothrix hollandica</i> . <i>Plant Molecular Biology</i> , 1992, 19, 355-365.	2.0	24
67	An allele of the <i>crm</i> gene blocks cyanobacterial circadian rhythms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13950-13955.	3.3	24
68	Meshing the gears of the cyanobacterial circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13697-13698.	3.3	23
69	PsfR, a factor that stimulates psbAI expression in the cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Microbiology (United Kingdom)</i> , 2004, 150, 1031-1040.	0.7	22
70	Detecting KaiC Phosphorylation Rhythms of the Cyanobacterial Circadian Oscillator In Vitro and In Vivo. <i>Methods in Enzymology</i> , 2015, 551, 153-173.	0.4	20
71	A Cyanobacterial Component Required for Pilus Biogenesis Affects the Exoproteome. <i>MBio</i> , 2021, 12, .	1.8	20
72	Nucleotide sequence of psbB from <i>Prochlorothrix hollandica</i> . <i>Plant Molecular Biology</i> , 1991, 17, 915-917.	2.0	18

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73	The international journeys and aliases of <i>Synechococcus elongatus</i> . <i>New Zealand Journal of Botany</i> , 2019, 57, 70-75.	0.8	18
74	A Combined Computational and Genetic Approach Uncovers Network Interactions of the Cyanobacterial Circadian Clock. <i>Journal of Bacteriology</i> , 2016, 198, 2439-2447.	1.0	16
75	Quantification of Chlorophyll as a Proxy for Biofilm Formation in the Cyanobacterium <i>Synechococcus elongatus</i> . <i>Bio-protocol</i> , 2017, 7, e2406.	0.2	16
76	A microcin processing peptidase-like protein of the cyanobacterium <i>Synechococcus elongatus</i> is essential for secretion of biofilm-promoting proteins. <i>Environmental Microbiology Reports</i> , 2019, 11, 456-463.	1.0	14
77	Functional Analysis of the <i>Synechococcus elongatus</i> PCC 7942 Genome. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 119-137.	1.0	14
78	Comparative Genomics of <i>Synechococcus elongatus</i> Explains the Phenotypic Diversity of the Strains. <i>MBio</i> , 2022, 13, e0086222.	1.8	13
79	A Novel Allele of <i>kaiA</i> Shortens the Circadian Period and Strengthens Interaction of Oscillator Components in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Journal of Bacteriology</i> , 2009, 191, 4392-4400.	1.0	11
80	Single mutations in <i>casA</i> enable a simpler <i>cikA</i> gene network architecture with equivalent circadian properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5069-E5075.	3.3	11
81	Photosynthetic bio-manufacturing: food, fuel, and medicine for the 21st century. <i>Photosynthesis Research</i> , 2015, 123, 225-226.	1.6	11
82	Mutations in Novel Lipopolysaccharide Biogenesis Genes Confer Resistance to Amoebal Grazing in <i>Synechococcus elongatus</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 2738-2750.	1.4	11
83	Best Practices for Fluorescence Microscopy of the Cyanobacterial Circadian Clock. <i>Methods in Enzymology</i> , 2015, 551, 211-221.	0.4	9
84	Principles of rhythmicity emerging from cyanobacteria. <i>European Journal of Neuroscience</i> , 2020, 51, 13-18.	1.2	9
85	Systems biology of cellular rhythms: from cacophony to symphony. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 571-573.	1.5	8
86	Time for Plants. <i>Progress in Plant Chronobiology: Fig. 1.. Plant Physiology</i> , 2001, 125, 98-101.	2.3	7
87	Stability and lability of circadian period of gene expression in the cyanobacterium <i>Synechococcus elongatus</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 635-641.	0.7	7
88	Sequence-specific ¹ H, ¹³ C and ¹⁵ N resonance assignments of the N-terminal, 135-residue domain of KaiA, a clock protein from <i>Synechococcus elongatus</i> . <i>Journal of Biomolecular NMR</i> , 2001, 21, 179-180.	1.6	6
89	Impairment of a cyanobacterial glycosyltransferase that modifies a pilin results in biofilm development. <i>Environmental Microbiology Reports</i> , 2022, 14, 218-229.	1.0	5
90	High-Throughput and Quantitative Approaches for Measuring Circadian Rhythms in Cyanobacteria Using Bioluminescence. <i>Methods in Enzymology</i> , 2015, 551, 53-72.	0.4	3

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91	Transcriptomic and Phenomic Investigations Reveal Elements in Biofilm Repression and Formation in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	3
92	Good old-fashioned (anti)sense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6781-6782.	3.3	2
93	Mechanistic Aspects of the Cyanobacterial Circadian Clock. , 2021, , 67-77.		1
94	Circadian Rhythmicity in Prokaryotes \hat{t} . , 2019, , 681-681.		0