

Patricia J Kiley

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6592752/patricia-j-kiley-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

5,055

citations

37

h-index

71

g-index

91

ext. papers

5,654

ext. citations

6.9

avg, IF

5.52

L-index

#	Paper	IF	Citations
82	IscR, an Fe-S cluster-containing transcription factor, represses expression of Escherichia coli genes encoding Fe-S cluster assembly proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14895-900	11.5	324
81	Iron-sulfur cluster disassembly in the FNR protein of Escherichia coli by O ₂ : [4Fe-4S] to [2Fe-2S] conversion with loss of biological activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 6087-92	11.5	287
80	The role of Fe-S proteins in sensing and regulation in bacteria. <i>Current Opinion in Microbiology</i> , 2003 , 6, 181-5	7.9	286
79	DNA binding and dimerization of the Fe-S-containing FNR protein from Escherichia coli are regulated by oxygen. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2762-8	5.4	254
78	Oxygen sensing by the global regulator, FNR: the role of the iron-sulfur cluster. <i>FEMS Microbiology Reviews</i> , 1998 , 22, 341-52	15.1	253
77	The cysteine desulfurase, IscS, has a major role in in vivo Fe-S cluster formation in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9009-14	11.5	252
76	IscR-dependent gene expression links iron-sulphur cluster assembly to the control of O ₂ -regulated genes in Escherichia coli. <i>Molecular Microbiology</i> , 2006 , 60, 1058-75	4.1	222
75	Genome-wide expression analysis indicates that FNR of Escherichia coli K-12 regulates a large number of genes of unknown function. <i>Journal of Bacteriology</i> , 2005 , 187, 1135-60	3.5	215
74	Fe-S proteins in sensing and regulatory functions. <i>Current Opinion in Chemical Biology</i> , 1999 , 3, 152-7	9.7	186
73	Association of a polynuclear iron-sulfur center with a mutant FNR protein enhances DNA binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 2499-503	11.5	185
72	Identification of a contact site for different transcription activators in region 4 of the Escherichia coli RNA polymerase sigma70 subunit. <i>Journal of Molecular Biology</i> , 1998 , 284, 1353-65	6.5	146
71	Genome-scale analysis of escherichia coli FNR reveals complex features of transcription factor binding. <i>PLoS Genetics</i> , 2013 , 9, e1003565	6	120
70	Mössbauer spectroscopy as a tool for the study of activation/inactivation of the transcription regulator FNR in whole cells of Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 13431-5	11.5	101
69	Correcting direct effects of ethanol on translation and transcription machinery confers ethanol tolerance in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2576-85	11.5	96
68	Sequence-specific binding to a subset of IscR-regulated promoters does not require IscR Fe-S cluster ligation. <i>Journal of Molecular Biology</i> , 2009 , 387, 28-41	6.5	93
67	The bacterial response regulator ArcA uses a diverse binding site architecture to regulate carbon oxidation globally. <i>PLoS Genetics</i> , 2013 , 9, e1003839	6	92
66	Regulation of iron-sulphur cluster homeostasis through transcriptional control of the Isc pathway by [2Fe-2S]-IscR in Escherichia coli. <i>Molecular Microbiology</i> , 2013 , 87, 478-92	4.1	91

65	Kinetic analysis of the oxidative conversion of the [4Fe-4S] ₂ ⁺ cluster of FNR to a [2Fe-2S] ₂ ⁺ Cluster. <i>Journal of Bacteriology</i> , 2004 , 186, 8018-25	3.5	85
64	Characterization of light-harvesting mutants of Rhodospseudomonas sphaeroides. I. Measurement of the efficiency of energy transfer from light-harvesting complexes to the reaction center. <i>Archives of Biochemistry and Biophysics</i> , 1985 , 236, 130-9	4.1	82
63	Studies of IscR reveal a unique mechanism for metal-dependent regulation of DNA binding specificity. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 740-7	17.6	80
62	Iron-containing transcription factors and their roles as sensors. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 335-41	9.7	79
61	Exploiting thiol modifications. <i>PLoS Biology</i> , 2004 , 2, e400	9.7	74
60	Characterization of the [2Fe-2S] cluster of Escherichia coli transcription factor IscR. <i>Biochemistry</i> , 2012 , 51, 4453-62	3.2	71
59	Substitution of leucine 28 with histidine in the Escherichia coli transcription factor FNR results in increased stability of the [4Fe-4S] ₂ ⁺ cluster to oxygen. <i>Journal of Biological Chemistry</i> , 2000 , 275, 6234-40	5.4	67
58	Fe-S proteins that regulate gene expression. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1284-93	4.9	66
57	Superoxide destroys the [2Fe-2S] ₂ ⁺ cluster of FNR from Escherichia coli. <i>Biochemistry</i> , 2004 , 43, 791-8	3.2	62
56	Characterization of the dimerization domain in the FNR transcription factor. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45744-50	5.4	60
55	Fnr, NarP, and NarL regulation of Escherichia coli K-12 napF (periplasmic nitrate reductase) operon transcription in vitro. <i>Journal of Bacteriology</i> , 1998 , 180, 4192-8	3.5	60
54	Two-pronged survival strategy for the major cystic fibrosis pathogen, Pseudomonas aeruginosa, lacking the capacity to degrade nitric oxide during anaerobic respiration. <i>EMBO Journal</i> , 2007 , 26, 3662-72	7.2	58
53	ClpXP-dependent proteolysis of FNR upon loss of its O ₂ -sensing [4Fe-4S] cluster. <i>Journal of Molecular Biology</i> , 2005 , 354, 220-32	6.5	56
52	In vitro analysis of a constitutively active mutant form of the Escherichia coli global transcription factor FNR. <i>Journal of Molecular Biology</i> , 1995 , 245, 351-61	6.5	56
51	Reconstruction of the core and extended regulons of global transcription factors. <i>PLoS Genetics</i> , 2010 , 6, e1001027	6	54
50	The impact of O ₂ on the Fe-S cluster biogenesis requirements of Escherichia coli FNR. <i>Journal of Molecular Biology</i> , 2008 , 384, 798-811	6.5	50
49	Redox control of gene expression involving iron-sulfur proteins. Change of oxidation-state or assembly/disassembly of Fe-S clusters?. <i>FEBS Letters</i> , 1996 , 382, 218-9; discussion 220-1	3.8	48
48	Complex physiology and compound stress responses during fermentation of alkali-pretreated corn stover hydrolysate by an Escherichia coli ethanologen. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 3442-57	4.8	47

47	How Is Fe-S Cluster Formation Regulated?. <i>Annual Review of Microbiology</i> , 2015 , 69, 505-26	17.5	41
46	IscR is essential for yersinia pseudotuberculosis type III secretion and virulence. <i>PLoS Pathogens</i> , 2014 , 10, e1004194	7.6	38
45	Impact of Anaerobiosis on Expression of the Iron-Responsive Fur and RyhB Regulons. <i>MBio</i> , 2015 , 6, e01947-1537	19.4	37
44	FNR-dependent activation of the class II dmsA and narG promoters of Escherichia coli requires FNR-activating regions 1 and 3. <i>Molecular Microbiology</i> , 2000 , 38, 817-27	4.1	37
43	O availability impacts iron homeostasis in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12261-12266	11.5	35
42	Regulation of FNR dimerization by subunit charge repulsion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 33268-75	5.4	35
41	Regulated Stochasticity in a Bacterial Signaling Network Permits Tolerance to a Rapid Environmental Change. <i>Cell</i> , 2018 , 173, 196-207.e14	56.2	32
40	Aromatic inhibitors derived from ammonia-pretreated lignocellulose hinder bacterial ethanologensis by activating regulatory circuits controlling inhibitor efflux and detoxification. <i>Frontiers in Microbiology</i> , 2014 , 5, 402	5.7	30
39	Evolution of the metabolic and regulatory networks associated with oxygen availability in two phytopathogenic enterobacteria. <i>BMC Genomics</i> , 2012 , 13, 110	4.5	30
38	The puf operon region of Rhodobacter sphaeroides. <i>Photosynthesis Research</i> , 1988 , 19, 39-61	3.7	29
37	Contributions of [4Fe-4S]-FNR and integration host factor to fnr transcriptional regulation. <i>Journal of Bacteriology</i> , 2007 , 189, 3036-43	3.5	28
36	Coordinate regulation of the Suf and Isc Fe-S cluster biogenesis pathways by IscR is essential for viability of Escherichia coli. <i>Journal of Bacteriology</i> , 2014 , 196, 4315-23	3.5	27
35	A shared mechanism of SoxR activation by redox-cycling compounds. <i>Molecular Microbiology</i> , 2011 , 79, 1119-22	4.1	25
34	Characterization of activating region 3 from Escherichia coli FNR. <i>Journal of Molecular Biology</i> , 2002 , 315, 275-83	6.5	24
33	Reassessing the Structure and Function Relationship of the O Sensing Transcription Factor FNR. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 1830-1840	8.4	24
32	On the role of the light-harvesting B880 in the correct insertion of the reaction center of Rhodobacter capsulatus and Rhodobacter sphaeroides. <i>FEBS Letters</i> , 1987 , 215, 171-4	3.8	21
31	Techniques for studying the oxygen-sensitive transcription factor FNR from Escherichia coli. <i>Methods in Enzymology</i> , 2003 , 370, 300-12	1.7	20
30	Defining bacterial regulons using CHIP-seq. <i>Methods</i> , 2015 , 86, 80-8	4.6	17

29	The influence of repressor DNA binding site architecture on transcriptional control. <i>MBio</i> , 2014 , 5, e01684814	7.4	15
28	Techniques to isolate O ₂ -sensitive proteins: [4Fe-4S]-FNR as an example. <i>Methods in Enzymology</i> , 2009 , 463, 787-805	1.7	15
27	Control of Heme Uptake Genes in in Response to Iron Sources. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018 , 8, 47	5.9	13
26	dPeak: high resolution identification of transcription factor binding sites from PET and SET CHIP-Seq data. <i>PLoS Computational Biology</i> , 2013 , 9, e1003246	5	12
25	Additional determinants within Escherichia coli FNR activating region 1 and RNA polymerase alpha subunit required for transcription activation. <i>Journal of Bacteriology</i> , 2005 , 187, 1724-31	3.5	12
24	Tailoring a Global Iron Regulon to a Uropathogen. <i>MBio</i> , 2020 , 11,	7.8	11
23	Phage integration alters the respiratory strategy of its host. <i>ELife</i> , 2019 , 8,	8.9	11
22	Elevated Expression of a Functional Suf Pathway in Escherichia coli BL21(DE3) Enhances Recombinant Production of an Iron-Sulfur Cluster-Containing Protein. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	10
21	A Markerless Method for Genome Engineering in ZM4. <i>Frontiers in Microbiology</i> , 2019 , 10, 2216	5.7	9
20	Design principles of a conditional futile cycle exploited for regulation. <i>Molecular BioSystems</i> , 2015 , 11, 1841-9		8
19	Identification and Unusual Properties of the Master Regulator FNR in the Extreme Acidophile. <i>Frontiers in Microbiology</i> , 2019 , 10, 1642	5.7	7
18	Transcriptome changes associated with anaerobic growth in Yersinia intermedia (ATCC29909). <i>PLoS ONE</i> , 2013 , 8, e76567	3.7	6
17	Dissecting the role of the N-terminal region of the Escherichia coli global transcription factor FNR. <i>Journal of Bacteriology</i> , 2008 , 190, 8230-3	3.5	6
16	Iron availability and oxygen tension regulate the Yersinia Ysc type III secretion system to enable disseminated infection. <i>PLoS Pathogens</i> , 2019 , 15, e1008001	7.6	5
15	Global approaches for finding small RNA and small open reading frame functions. <i>Journal of Bacteriology</i> , 2010 , 192, 26-8	3.5	4
14	Model-driven analysis of mutant fitness experiments improves genome-scale metabolic models of Zymomonas mobilis ZM4. <i>PLoS Computational Biology</i> , 2020 , 16, e1008137	5	4
13	Systems Metabolic Engineering of Escherichia coli Improves Coconversion of Lignocellulose-Derived Sugars. <i>Biotechnology Journal</i> , 2019 , 14, e1800441	5.6	3
12	Global Responses of Bacteria to Oxygen Deprivation 2014 , 175-189		3

11	13. Sensing the cellular Fe-S cluster demand: a structural, functional, and phylogenetic overview of Escherichia coli IscR		2
10	Bridges and chasms: summary of the IMAGE 2 meeting in Montreal, Canada, 30 April to 3 May 2007. <i>Journal of Bacteriology</i> , 2008 , 190, 792-7	3.5	1
9	Minor Alterations in Core Promoter Element Positioning Reveal Functional Plasticity of a Bacterial Transcription Factor. <i>MBio</i> , 2021 , e0275321	7.8	0
8	Genome Scale Analysis Reveals IscR Directly and Indirectly Regulates Virulence Factor Genes in Pathogenic. <i>MBio</i> , 2021 , 12, e0063321	7.8	0
7	Improving Mobilization of Foreign DNA into Zymomonas mobilis Strain ZM4 by Removal of Multiple Restriction Systems. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0080821	4.8	0
6	The puf operon region of Rhodobacter sphaeroides 1988 , 137-159		
5	Iron availability and oxygen tension regulate the Yersinia Ysc type III secretion system to enable disseminated infection 2019 , 15, e1008001		
4	Iron availability and oxygen tension regulate the Yersinia Ysc type III secretion system to enable disseminated infection 2019 , 15, e1008001		
3	Iron availability and oxygen tension regulate the Yersinia Ysc type III secretion system to enable disseminated infection 2019 , 15, e1008001		
2	Iron availability and oxygen tension regulate the Yersinia Ysc type III secretion system to enable disseminated infection 2019 , 15, e1008001		
1	Creation of Markerless Genome Modifications in a Nonmodel Bacterium by Fluorescence-Aided Recombineering.. <i>Methods in Molecular Biology</i> , 2022 , 2479, 53-70	1.4	