

John S Parkinson

List of Publications by Year in descending order

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64
papers

3,613
citations

172207

29
h-index

138251

58
g-index

65
all docs

65
docs citations

65
times ranked

1697
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial chemoreceptors: high-performance signaling in networked arrays. Trends in Biochemical Sciences, 2008, 33, 9-19.	3.7	571
2	Signaling and sensory adaptation in Escherichia coli chemoreceptors: 2015 update. Trends in Microbiology, 2015, 23, 257-266.	3.5	317
3	Collaborative signaling by mixed chemoreceptor teams in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7060-7065.	3.3	306
4	Signaling Mechanisms of HAMP Domains in Chemoreceptors and Sensor Kinases. Annual Review of Microbiology, 2010, 64, 101-122.	2.9	172
5	Crosslinking snapshots of bacterial chemoreceptor squads. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2117-2122.	3.3	168
6	Collaborative signaling by bacterial chemoreceptors. Current Opinion in Microbiology, 2005, 8, 116-121.	2.3	140
7	Mutational analyses of HAMP helices suggest a dynamic bundle model of input-output signalling in chemoreceptors. Molecular Microbiology, 2009, 73, 801-814.	1.2	117
8	Insights into the organization and dynamics of bacterial chemoreceptor clusters through in vivo crosslinking studies. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15623-15628.	3.3	114
9	Sensory adaptation mutants of E. coli. Cell, 1978, 15, 1221-1230.	13.5	106
10	The source of high signal cooperativity in bacterial chemosensory arrays. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3335-3340.	3.3	93
11	Biphasic control logic of HAMP domain signalling in the <i>Escherichia coli</i> serine chemoreceptor. Molecular Microbiology, 2011, 80, 596-611.	1.2	82
12	Methylation-Independent Aerotaxis Mediated by the Escherichia coli Aer Protein. Journal of Bacteriology, 2004, 186, 3730-3737.	1.0	71
13	Methylation segments are not required for chemotactic signalling by cytoplasmic fragments of Tsr, the methyl-accepting serine chemoreceptor of Escherichia coli. Molecular Microbiology, 1996, 19, 737-746.	1.2	69
14	Rapid Phosphotransfer to CheY from a CheA Protein Lacking the CheY-Binding Domain. Biochemistry, 2000, 39, 13157-13165.	1.2	69
15	Mutational Analysis of the Connector Segment in the HAMP Domain of Tsr, the <i>Escherichia coli</i> Serine Chemoreceptor. Journal of Bacteriology, 2008, 190, 6676-6685.	1.0	60
16	The mobility of two kinase domains in the <i>Escherichia coli</i> chemoreceptor array varies with signalling state. Molecular Microbiology, 2013, 89, 831-841.	1.2	59
17	Signaling Interactions between the Aerotaxis Transducer Aer and Heterologous Chemoreceptors in Escherichia coli. Journal of Bacteriology, 2006, 188, 3487-3493.	1.0	52
18	Data processing by the chemotaxis machinery of Escherichia coli. Nature, 1974, 252, 317-319.	13.7	50

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19	Phenol Sensing by <i>Escherichia coli</i> Chemoreceptors: a Nonclassical Mechanism. <i>Journal of Bacteriology</i> , 2011, 193, 6597-6604.	1.0	47
20	Complete structure of the chemosensory array core signalling unit in an <i>E. coli</i> minicell strain. <i>Nature Communications</i> , 2020, 11, 743.	5.8	47
21	Disruption of chemoreceptor signalling arrays by high levels of CheW, the receptor-kinase coupling protein. <i>Molecular Microbiology</i> , 2010, 75, 1171-1181.	1.2	46
22	Networked Chemoreceptors Benefit Bacterial Chemotaxis Performance. <i>MBio</i> , 2016, 7, .	1.8	46
23	Bacterial Chemotaxis: a New Player in Response Regulator Dephosphorylation. <i>Journal of Bacteriology</i> , 2003, 185, 1492-1494.	1.0	41
24	Loss- and Gain-of-Function Mutations in the F1-HAMP Region of the <i>Escherichia coli</i> Aerotaxis Transducer Aer. <i>Journal of Bacteriology</i> , 2006, 188, 3477-3486.	1.0	41
25	Conformational suppression of inter-receptor signaling defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9292-9297.	3.3	41
26	Mutational Analysis of the Control Cable That Mediates Transmembrane Signaling in the <i>Escherichia coli</i> Serine Chemoreceptor. <i>Journal of Bacteriology</i> , 2011, 193, 5062-5072.	1.0	39
27	Chemotactic Signaling by an <i>Escherichia coli</i> CheA Mutant That Lacks the Binding Domain for Phosphoacceptor Partners. <i>Journal of Bacteriology</i> , 2004, 186, 2664-2672.	1.0	38
28	A phenylalanine rotameric switch for signal-state control in bacterial chemoreceptors. <i>Nature Communications</i> , 2013, 4, 2881.	5.8	37
29	Structure and dynamics of the <i>E. coli</i> chemotaxis core signaling complex by cryo-electron tomography and molecular simulations. <i>Communications Biology</i> , 2020, 3, 24.	2.0	35
30	A "Bucket of Light" for Viewing Bacterial Colonies in Soft Agar. <i>Methods in Enzymology</i> , 2007, 423, 432-435.	0.4	32
31	Functional Suppression of HAMP Domain Signaling Defects in the <i>E. coli</i> Serine Chemoreceptor. <i>Journal of Molecular Biology</i> , 2014, 426, 3642-3655.	2.0	31
32	Mutational Analysis of the Chemoreceptor-Coupling Domain of the <i>Escherichia coli</i> Chemotaxis Signaling Kinase CheA. <i>Journal of Bacteriology</i> , 2006, 188, 3299-3307.	1.0	30
33	Different Signaling Roles of Two Conserved Residues in the Cytoplasmic Hairpin Tip of Tsr, the <i>Escherichia coli</i> Serine Chemoreceptor. <i>Journal of Bacteriology</i> , 2008, 190, 8065-8074.	1.0	30
34	<i>In Situ</i> Conformational Changes of the <i>Escherichia coli</i> Serine Chemoreceptor in Different Signaling States. <i>MBio</i> , 2019, 10, .	1.8	29
35	Differential Activation of <i>Escherichia coli</i> Chemoreceptors by Blue-Light Stimuli. <i>Journal of Bacteriology</i> , 2006, 188, 3962-3971.	1.0	28
36	Noncritical Signaling Role of a Kinase-Receptor Interaction Surface in the <i>Escherichia coli</i> Chemosensory Core Complex. <i>Journal of Molecular Biology</i> , 2018, 430, 1051-1064.	2.0	27

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37	<scp>HAMP</scp> domain structural determinants for signalling and sensory adaptation in <scp>Tsr</scp>, the <i><scp>E</scp>scherichia coli</i> serine chemoreceptor. Molecular Microbiology, 2014, 91, 875-886.	1.2	26
38	Genetic Approaches for Signaling Pathways and Proteins. , 2014, , 7-23.		25
39	An Unorthodox Sensory Adaptation Site in the Escherichia coli Serine Chemoreceptor. Journal of Bacteriology, 2014, 196, 641-649.	1.0	24
40	Cysteine-Scanning Analysis of the Chemoreceptor-Coupling Domain of the Escherichia coli Chemotaxis Signaling Kinase CheA. Journal of Bacteriology, 2006, 188, 4321-4330.	1.0	23
41	Under Elevated c-di-GMP in Escherichia coli, YcgR Alters Flagellar Motor Bias and Speed Sequentially, with Additional Negative Control of the Flagellar Regulon via the Adaptor Protein RssB. Journal of Bacteriology, 2019, 202, .	1.0	20
42	Mutational Analysis of N381, a Key Trimer Contact Residue in Tsr, the Escherichia coli Serine Chemoreceptor. Journal of Bacteriology, 2011, 193, 6452-6460.	1.0	18
43	Signalling–dependent interactions between the kinase–coupling protein <scp>CheW</scp> and chemoreceptors in living cells. Molecular Microbiology, 2014, 93, 1144-1155.	1.2	18
44	Evidence for a Helix-Clutch Mechanism of Transmembrane Signaling in a Bacterial Chemoreceptor. Journal of Molecular Biology, 2016, 428, 3776-3788.	2.0	18
45	In Vivo Crosslinking Methods for Analyzing the Assembly and Architecture of Chemoreceptor Arrays. Methods in Enzymology, 2007, 423, 414-431.	0.4	17
46	Mutational Analysis of the P1 Phosphorylation Domain in Escherichia coli CheA, the Signaling Kinase for Chemotaxis. Journal of Bacteriology, 2014, 196, 257-264.	1.0	17
47	A Trigger Residue for Transmembrane Signaling in the Escherichia coli Serine Chemoreceptor. Journal of Bacteriology, 2015, 197, 2568-2579.	1.0	17
48	Signaling Consequences of Structural Lesions that Alter the Stability of Chemoreceptor Trimers of Dimers. Journal of Molecular Biology, 2017, 429, 823-835.	2.0	14
49	Cross-Linking Evidence for Motional Constraints within Chemoreceptor Trimers of Dimers. Biochemistry, 2011, 50, 820-827.	1.2	13
50	Identification of a Kinase-Active CheA Conformation in Escherichia coli Chemoreceptor Signaling Complexes. Journal of Bacteriology, 2019, 201, .	1.0	12
51	Hexameric rings of the scaffolding protein CheW enhance response sensitivity and cooperativity in <i>Escherichia coli</i> chemoreceptor arrays. Science Signaling, 2022, 15, eabj1737.	1.6	12
52	A zipped-helix cap potentiates HAMP domain control of chemoreceptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3519-E3528.	3.3	10
53	Phenotypic Suppression Methods for Analyzing Intra–and Inter–Molecular Signaling Interactions of Chemoreceptors. Methods in Enzymology, 2007, 423, 436-457.	0.4	9
54	Classic Spotlight: the Discovery of Bacterial Transduction. Journal of Bacteriology, 2016, 198, 2899-2900.	1.0	8

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55	Structural signatures of <i>Escherichia coli</i> chemoreceptor signaling states revealed by cellular crosslinking. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	8
56	Chemotactic Signaling by Single-Chain Chemoreceptors. PLoS ONE, 2015, 10, e0145267.	1.1	6
57	Conformational shifts in a chemoreceptor helical hairpin control kinase signaling in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15651-15660.	3.3	4
58	Ancient chemoreceptors retain their flexibility. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2559-2560.	3.3	3
59	Paradoxical enhancement of chemoreceptor detection sensitivity by a sensory adaptation enzyme. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7583-E7591.	3.3	3
60	Classic Spotlight: Dawn of the Molecular Era of Bacterial Chemotaxis. Journal of Bacteriology, 2016, 198, 1796-1796.	1.0	2
61	Classic Spotlight: Look, Maxâ€”No Math Required!. Journal of Bacteriology, 2016, 198, 2281-2282.	1.0	2
62	Monitoring Two-Component Sensor Kinases with a Chemotaxis Signal Readout. Methods in Molecular Biology, 2018, 1729, 127-135.	0.4	2
63	All-Codon Mutagenesis for Structure-Function Studies of Chemotaxis Signaling Proteins. Methods in Molecular Biology, 2018, 1729, 79-85.	0.4	1
64	Classic Spotlight: Selected Highlights from the First 100 Years of the <i>Journal of Bacteriology</i> . Journal of Bacteriology, 2017, 199, .	1.0	0