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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	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
2	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
3	Structure and dynamics of the E. coli chemotaxis core signaling complex by cryo-electron tomography and molecular simulations. Communications Biology, 2020, 3, 24.	2.0	35
4	Complete structure of the chemosensory array core signalling unit in an E. coli minicell strain. Nature Communications, 2020, 11, 743.	5.8	47
5	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
6	<i>In Situ</i> Conformational Changes of the Escherichia coli Serine Chemoreceptor in Different Signaling States. MBio, 2019, 10, .	1.8	29
7	Identification of a Kinase-Active CheA Conformation in Escherichia coli Chemoreceptor Signaling Complexes. Journal of Bacteriology, 2019, 201, .	1.0	12
8	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
9	All-Codon Mutagenesis for Structure-Function Studies of Chemotaxis Signaling Proteins. Methods in Molecular Biology, 2018, 1729, 79-85.	0.4	1
10	Monitoring Two-Component Sensor Kinases with a Chemotaxis Signal Readout. Methods in Molecular Biology, 2018, 1729, 127-135.	0.4	2
11	Noncritical Signaling Role of a Kinaseâ€"Receptor Interaction Surface in the Escherichia coli Chemosensory Core Complex. Journal of Molecular Biology, 2018, 430, 1051-1064.	2.0	27
12	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
13	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
14	Classic Spotlight: Selected Highlights from the First 100 Years of the <i>Journal of Bacteriology</i>. Journal of Bacteriology, 2017, 199, .	1.0	0
15	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
16	Networked Chemoreceptors Benefit Bacterial Chemotaxis Performance. MBio, 2016, 7, .	1.8	46
17	Evidence for a Helix-Clutch Mechanism of Transmembrane Signaling in a Bacterial Chemoreceptor. Journal of Molecular Biology, 2016, 428, 3776-3788.	2.0	18
18	Classic Spotlight: Dawn of the Molecular Era of Bacterial Chemotaxis. Journal of Bacteriology, 2016, 198, 1796-1796.	1.0	2

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19	Classic Spotlight: Look, Maxâ€"No Math Required!. Journal of Bacteriology, 2016, 198, 2281-2282.	1.0	2
20	Classic Spotlight: the Discovery of Bacterial Transduction. Journal of Bacteriology, 2016, 198, 2899-2900.	1.0	8
21	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
22	A Trigger Residue for Transmembrane Signaling in the Escherichia coli Serine Chemoreceptor. Journal of Bacteriology, 2015, 197, 2568-2579.	1.0	17
23	Signaling and sensory adaptation in Escherichia coli chemoreceptors: 2015 update. Trends in Microbiology, 2015, 23, 257-266.	3.5	317
24	Chemotactic Signaling by Single-Chain Chemoreceptors. PLoS ONE, 2015, 10, e0145267.	1.1	6
25	Genetic Approaches for Signaling Pathways and Proteins. , 2014, , 7-23.		25
26	Signallingâ€dependent interactions between the kinaseâ€coupling protein <scp>CheW</scp> and chemoreceptors in living cells. Molecular Microbiology, 2014, 93, 1144-1155.	1.2	18
27	<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
28	Functional Suppression of HAMP Domain Signaling Defects in the E. coli Serine Chemoreceptor. Journal of Molecular Biology, 2014, 426, 3642-3655.	2.0	31
29	An Unorthodox Sensory Adaptation Site in the Escherichia coli Serine Chemoreceptor. Journal of Bacteriology, 2014, 196, 641-649.	1.0	24
30	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
31	A phenylalanine rotameric switch for signal-state control in bacterial chemoreceptors. Nature Communications, 2013, 4, 2881.	5.8	37
32	The mobility of two kinase domains in the <i><scp>E</scp>scherichia coli</i> chemoreceptor array varies with signalling state. Molecular Microbiology, 2013, 89, 831-841.	1.2	59
33	Cross-Linking Evidence for Motional Constraints within Chemoreceptor Trimers of Dimers. Biochemistry, 2011, 50, 820-827.	1.2	13
34	Biphasic control logic of HAMP domain signalling in the <i>Escherichia coli</i> serine chemoreceptor. Molecular Microbiology, 2011, 80, 596-611.	1.2	82
35	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
36	Phenol Sensing by Escherichia coli Chemoreceptors: a Nonclassical Mechanism. Journal of Bacteriology, 2011, 193, 6597-6604.	1.0	47

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37	Mutational Analysis of the Control Cable That Mediates Transmembrane Signaling in the Escherichia coli Serine Chemoreceptor. Journal of Bacteriology, 2011, 193, 5062-5072.	1.0	39
38	Disruption of chemoreceptor signalling arrays by high levels of CheW, the receptorâ€“kinase coupling protein. Molecular Microbiology, 2010, 75, 1171-1181.	1.2	46
39	Signaling Mechanisms of HAMP Domains in Chemoreceptors and Sensor Kinases. Annual Review of Microbiology, 2010, 64, 101-122.	2.9	172
40	Mutational analyses of HAMP helices suggest a dynamic bundle model of inputâ€“output signalling in chemoreceptors. Molecular Microbiology, 2009, 73, 801-814.	1.2	117
41	Bacterial chemoreceptors: high-performance signaling in networked arrays. Trends in Biochemical Sciences, 2008, 33, 9-19.	3.7	571
42	Different Signaling Roles of Two Conserved Residues in the Cytoplasmic Hairpin Tip of Tsr, the <i>Escherichia coli</i> Serine Chemoreceptor. Journal of Bacteriology, 2008, 190, 8065-8074.	1.0	30
43	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
44	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
45	A â€œBucket of Lightâ€• for Viewing Bacterial Colonies in Soft Agar. Methods in Enzymology, 2007, 423, 432-435.	0.4	32
46	Phenotypic Suppression Methods for Analyzing Intraâ€• and Interâ€Molecular Signaling Interactions of Chemoreceptors. Methods in Enzymology, 2007, 423, 436-457.	0.4	9
47	In Vivo Crosslinking Methods for Analyzing the Assembly and Architecture of Chemoreceptor Arrays. Methods in Enzymology, 2007, 423, 414-431.	0.4	17
48	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
49	Mutational Analysis of the Chemoreceptor-Coupling Domain of the Escherichia coli Chemotaxis Signaling Kinase CheA. Journal of Bacteriology, 2006, 188, 3299-3307.	1.0	30
50	Loss- and Gain-of-Function Mutations in the F1-HAMP Region of the Escherichia coli Aerotaxis Transducer Aer. Journal of Bacteriology, 2006, 188, 3477-3486.	1.0	41
51	Conformational suppression of inter-receptor signaling defects. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9292-9297.	3.3	41
52	Differential Activation of Escherichia coli Chemoreceptors by Blue-Light Stimuli. Journal of Bacteriology, 2006, 188, 3962-3971.	1.0	28
53	Signaling Interactions between the Aerotaxis Transducer Aer and Heterologous Chemoreceptors in Escherichia coli. Journal of Bacteriology, 2006, 188, 3487-3493.	1.0	52
54	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

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55	Collaborative signaling by bacterial chemoreceptors. Current Opinion in Microbiology, 2005, 8, 116-121.	2.3	140
56	Chemotactic Signaling by an Escherichia coli CheA Mutant That Lacks the Binding Domain for Phosphoacceptor Partners. Journal of Bacteriology, 2004, 186, 2664-2672.	1.0	38
57	Methylation-Independent Aerotaxis Mediated by the Escherichia coli Aer Protein. Journal of Bacteriology, 2004, 186, 3730-3737.	1.0	71
58	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
59	Bacterial Chemotaxis: a New Player in Response Regulator Dephosphorylation. Journal of Bacteriology, 2003, 185, 1492-1494.	1.0	41
60	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
61	Rapid Phosphotransfer to CheY from a CheA Protein Lacking the CheY-Binding Domainâ€. Biochemistry, 2000, 39, 13157-13165.	1.2	69
62	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
63	Sensory adaptation mutants of E. coli. Cell, 1978, 15, 1221-1230.	13.5	106
64	Data processing by the chemotaxis machinery of Escherichia coli. Nature, 1974, 252, 317-319.	13.7	50