

Ann M Stock

List of Publications by Year in descending order

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80
papers

11,442
citations

71102

41
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82547

72
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85
all docs

85
docs citations

85
times ranked

8636
citing authors

#	ARTICLE	IF	CITATIONS
1	A balancing act in transcription regulation by response regulators: titration of transcription factor activity by decoy DNA binding sites. <i>Nucleic Acids Research</i> , 2021, 49, 11537-11549.	14.5	11
2	Thiol-based functional mimicry of phosphorylation of the two-component system response regulator ArcA promotes pathogenesis in enteric pathogens. <i>Cell Reports</i> , 2021, 37, 110147.	6.4	11
3	Structural asymmetry does not indicate hemiphosphorylation in the bacterial histidine kinase CpxA. <i>Journal of Biological Chemistry</i> , 2020, 295, 8106-8117.	3.4	4
4	Cytokinin Sensing in Bacteria. <i>Biomolecules</i> , 2020, 10, 186.	4.0	4
5	Two-component systems. <i>Current Biology</i> , 2019, 29, R724-R725.	3.9	46
6	Structural Basis of Response Regulator Function. <i>Annual Review of Microbiology</i> , 2019, 73, 175-197.	7.3	118
7	Drug-like Fragments Inhibit agr-Mediated Virulence Expression in <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2019, 9, 6786.	3.3	24
8	The PLOS Biology XV Collection: 15 Years of Exceptional Science Highlighted across 12 Months. <i>PLoS Biology</i> , 2019, 17, e3000180.	5.6	1
9	What do archaeal and eukaryotic histidine kinases sense?. <i>F1000Research</i> , 2019, 8, 2145.	1.6	10
10	Overcoming the Cost of Positive Autoregulation by Accelerating the Response with a Coupled Negative Feedback. <i>Cell Reports</i> , 2018, 24, 3061-3071.e6.	6.4	24
11	Quantitative Analysis of Intracellular Response Regulator Phosphatase Activity of Histidine Kinases. <i>Methods in Enzymology</i> , 2018, 607, 301-319.	1.0	11
12	Quantitative Kinetic Analyses of Shutting Off a Two-Component System. <i>MBio</i> , 2017, 8, .	4.1	27
13	Classic Spotlight: Selected Highlights from the First 100 Years of the <i>Journal of Bacteriology</i> . <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	0
14	Two-Component Signal Transduction: a Special Issue in the <i>Journal of Bacteriology</i> . <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	0
15	Call for Original Research Papers for a Special Collection in <i>Journal of Bacteriology</i> : Two-Component Signal Transduction. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	0
16	Counterbalancing Regulation in Response Memory of a Positively Autoregulated Two-Component System. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	7
17	Classic Spotlight: a Window on Multicellular Development. <i>Journal of Bacteriology</i> , 2016, 198, 602-602.	2.2	0
18	Classic Spotlight: Crowd Sourcing Provided <i>Penicillium</i> Strains for the War Effort. <i>Journal of Bacteriology</i> , 2016, 198, 877-877.	2.2	2

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19	Classic Spotlight: Managing Stress. <i>Journal of Bacteriology</i> , 2016, 198, 2549-2549.	2.2	0
20	Temporal Hierarchy of Gene Expression Mediated by Transcription Factor Binding Affinity and Activation Dynamics. <i>MBio</i> , 2015, 6, e00686-15.	4.1	40
21	Structural basis for drug-induced allosteric changes to human β -cardiac myosin motor activity. <i>Nature Communications</i> , 2015, 6, 7974.	12.8	94
22	Comprehensive Analysis of OmpR Phosphorylation, Dimerization, and DNA Binding Supports a Canonical Model for Activation. <i>Journal of Molecular Biology</i> , 2013, 425, 1612-1626.	4.2	45
23	Evolutionary Tuning of Protein Expression Levels of a Positively Autoregulated Two-Component System. <i>PLoS Genetics</i> , 2013, 9, e1003927.	3.5	32
24	Phosphorylation-dependent conformational changes and domain rearrangements in <i>Staphylococcus aureus</i> VraR activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8525-8530.	7.1	83
25	Probing kinase and phosphatase activities of two-component systems in vivo with concentration-dependent phosphorylation profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 672-677.	7.1	67
26	Identification of a Hydrophobic Cleft in the LytTR Domain of AgrA as a Locus for Small Molecule Interactions That Inhibit DNA Binding. <i>Biochemistry</i> , 2012, 51, 10035-10043.	2.5	53
27	Inhibition of Bacterial Virulence: Drug-Like Molecules Targeting the <i>Salmonella enterica</i> PhoP Response Regulator. <i>Chemical Biology and Drug Design</i> , 2012, 79, 1007-1017.	3.2	49
28	Regulation of Response Regulator Autophosphorylation through Interdomain Contacts. <i>Journal of Biological Chemistry</i> , 2010, 285, 32325-32335.	3.4	62
29	Molecular strategies for phosphorylation-mediated regulation of response regulator activity. <i>Current Opinion in Microbiology</i> , 2010, 13, 160-167.	5.1	149
30	Biological Insights from Structures of Two-Component Proteins. <i>Annual Review of Microbiology</i> , 2009, 63, 133-154.	7.3	675
31	Probing the Roles of the Two Different Dimers Mediated by the Receiver Domain of the Response Regulator PhoB. <i>Journal of Molecular Biology</i> , 2009, 389, 349-364.	4.2	39
32	Physical Models of transcription factors activated via histidine kinase two-component signal transduction signaling pathways. <i>FASEB Journal</i> , 2009, 23, 495.18.	0.5	0
33	Universally applicable methods for monitoring response regulator aspartate phosphorylation both in vitro and in vivo using Phos-tag-based reagents. <i>Analytical Biochemistry</i> , 2008, 376, 73-82.	2.4	130
34	System-level mapping of <i>Escherichia coli</i> response regulator dimerization with FRET hybrids. <i>Molecular Microbiology</i> , 2008, 69, 1358-1372.	2.5	50
35	Structure of the <i>Staphylococcus aureus</i> AgrA LytTR Domain Bound to DNA Reveals a Beta Fold with an Unusual Mode of Binding. <i>Structure</i> , 2008, 16, 727-735.	3.3	117
36	Interaction of CheY with the C-Terminal Peptide of CheZ. <i>Journal of Bacteriology</i> , 2008, 190, 1419-1428.	2.2	13

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37	Crystal Structures of the Receiver Domain of the Response Regulator PhoP from <i>Escherichia coli</i> in the Absence and Presence of the Phosphoryl Analog Berylliofluoride. <i>Journal of Bacteriology</i> , 2007, 189, 5987-5995.	2.2	74
38	Domain Orientation in the Inactive Response Regulator <i>Mycobacterium tuberculosis</i> MtrA Provides a Barrier to Activation. <i>Biochemistry</i> , 2007, 46, 6733-6743.	2.5	76
39	Characterization of the <i>Thermotoga maritima</i> chemotaxis methylation system that lacks pentapeptide-dependent methyltransferase CheR: MCP tethering. <i>Molecular Microbiology</i> , 2007, 63, 363-378.	2.5	18
40	Bacterial response regulators: versatile regulatory strategies from common domains. <i>Trends in Biochemical Sciences</i> , 2007, 32, 225-234.	7.5	286
41	Crystal Structures of Beryllium Fluoride-free and Beryllium Fluoride-bound CheY in Complex with the Conserved C-terminal Peptide of CheZ Reveal Dual Binding Modes Specific to CheY Conformation. <i>Journal of Molecular Biology</i> , 2006, 359, 624-645.	4.2	45
42	Identification of Methylation Sites in <i>Thermotoga maritima</i> Chemotaxis Receptors. <i>Journal of Bacteriology</i> , 2006, 188, 4093-4100.	2.2	20
43	A New Perspective on Response Regulator Activation. <i>Journal of Bacteriology</i> , 2006, 188, 7328-7330.	2.2	57
44	A common dimerization interface in bacterial response regulators KdpE and TorR. <i>Protein Science</i> , 2005, 14, 3077-3088.	7.6	80
45	Mechanism of Activation for Transcription Factor PhoB Suggested by Different Modes of Dimerization in the Inactive and Active States. <i>Structure</i> , 2005, 13, 1353-1363.	3.3	119
46	Structural Analysis and Solution Studies of the Activated Regulatory Domain of the Response Regulator ArcA: A Symmetric Dimer Mediated by the $\alpha 4$ - $\alpha 5$ Face. <i>Journal of Molecular Biology</i> , 2005, 349, 11-26.	4.2	114
47	Discrimination between Different Methylation States of Chemotaxis Receptor Tar by Receptor Methyltransferase CheR. <i>Biochemistry</i> , 2004, 43, 953-961.	2.5	21
48	Structural Analysis of the Domain Interface in DrrB, a Response Regulator of the OmpR/PhoB Subfamily. <i>Journal of Bacteriology</i> , 2003, 185, 4186-4194.	2.2	97
49	Response Regulator Proteins and Their Interactions with Histidine Protein Kinases. , 2003, , 237-271.		9
50	Molecular Information Processing: Lessons from Bacterial Chemotaxis. <i>Journal of Biological Chemistry</i> , 2002, 277, 9625-9628.	3.4	197
51	Kinetic Basis for the Stimulatory Effect of Phosphorylation on the Methyltransferase Activity of CheB. <i>Biochemistry</i> , 2002, 41, 6752-6760.	2.5	25
52	Evidence of Intradomain and Interdomain Flexibility in an OmpR/PhoB Homolog from <i>Thermotoga maritima</i> . <i>Structure</i> , 2002, 10, 153-164.	3.3	100
53	Domain Arrangement of Der, a Switch Protein Containing Two GTPase Domains. <i>Structure</i> , 2002, 10, 1649-1658.	3.3	64
54	Phosphorylation causes subtle changes in solvent accessibility at the interdomain interface of methyltransferase CheB 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2001, 307, 967-976.	4.2	60

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55	Synthesis and Biochemical Characterization of a Phosphorylated Analogue of the Response Regulator CheB. <i>Biochemistry</i> , 2001, 40, 12896-12903.	2.5	11
56	Histidine kinases and response regulator proteins in two-component signaling systems. <i>Trends in Biochemical Sciences</i> , 2001, 26, 369-376.	7.5	841
57	Synthesis of [³² P]Phosphoramidate for Use as a Low Molecular Weight Phosphodonor Reagent. <i>Analytical Biochemistry</i> , 2000, 283, 222-227.	2.4	18
58	A tale of two components: a novel kinase and a regulatory switch. <i>Nature Structural Biology</i> , 2000, 7, 626-633.	9.7	190
59	Evidence for phosphorylation-dependent conformational changes in methylesterase CheB. <i>Protein Science</i> , 2000, 9, 898-906.	7.6	15
60	Two-Component Signal Transduction. <i>Annual Review of Biochemistry</i> , 2000, 69, 183-215.	11.1	2,860
61	The Catalytic Pathway of Cytochrome P450cam at Atomic Resolution. <i>Science</i> , 2000, 287, 1615-1622.	12.6	1,298
62	Relating dynamics to function. <i>Nature</i> , 1999, 400, 221-222.	27.8	19
63	High energy exchange: proteins that make or break phosphoramidate bonds. <i>Structure</i> , 1999, 7, R47-R53.	3.3	18
64	Orientation of OmpR monomers within an OmpR:DNA complex determined by DNA affinity cleaving 1 Edited by K. Yamamoto. <i>Journal of Molecular Biology</i> , 1999, 285, 555-566.	4.2	49
65	PROTEIN METHYLTRANSFERASES INVOLVED IN SIGNAL TRANSDUCTION. , 1999, , 149-183.		2
66	Chemotaxis receptor recognition by protein methyltransferase CheR. <i>Nature Structural Biology</i> , 1998, 5, 446-450.	9.7	88
67	Stabilization of the Phospho-aspartyl Residue in a Two-Component Signal Transduction System in <i>Thermotogamaritima</i> . <i>Biochemistry</i> , 1998, 37, 14575-14584.	2.5	20
68	Activation of Methylesterase CheB: Evidence of a Dual Role for the Regulatory Domain. <i>Biochemistry</i> , 1998, 37, 14038-14047.	2.5	66
69	Structural relationships in the OmpR family of winged-helix transcription factors 1 Edited by M. Gottesman. <i>Journal of Molecular Biology</i> , 1997, 269, 301-312.	4.2	260
70	The DNA-binding domain of OmpR: crystal structures of a winged helix transcription factor. <i>Structure</i> , 1997, 5, 109-124.	3.3	237
71	Crystal structure of the chemotaxis receptor methyltransferase CheR suggests a conserved structural motif for binding S-adenosylmethionine. <i>Structure</i> , 1997, 5, 545-558.	3.3	138
72	Crystallization, X-ray studies, and site-directed cysteine mutagenesis of the DNA-binding domain of OmpR. <i>Protein Science</i> , 1996, 5, 1429-1433.	7.6	15

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73	Purification, crystallization, and preliminary X-ray diffraction analyses of the bacterial chemotaxis receptor modifying enzymes. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 21, 345-350.	2.6	11
74	Structure of the magnesium-bound form of CheY and mechanism of phosphoryl transfer in bacterial chemotaxis. <i>Biochemistry</i> , 1993, 32, 13375-13380.	2.5	229
75	Signal transduction in bacteria. <i>Nature</i> , 1990, 344, 395-400.	27.8	697
76	Divalent metal ion binding to the CheY protein and its significance to phosphotransfer in bacterial chemotaxis. <i>Biochemistry</i> , 1990, 29, 5436-5442.	2.5	189
77	Three-dimensional structure of CheY, the response regulator of bacterial chemotaxis. <i>Nature</i> , 1989, 337, 745-749.	27.8	397
78	Sensory transduction in bacterial chemotaxis involves phosphotransfer between CHE proteins. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 891-896.	2.1	188
79	N-terminal methylation of proteins: Structure, function and specificity. <i>FEBS Letters</i> , 1987, 220, 8-14.	2.8	97
80	Two-Component Signal Transduction and Chemotaxis. , 0, , 17-36.		2