

Sean Crosson

List of Publications by Year in descending order

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78
papers

4,761
citations

109321

35
h-index

106344

65
g-index

99
all docs

99
docs citations

99
times ranked

4863
citing authors

#	ARTICLE	IF	CITATIONS
1	The DUF1013 protein TrcR tracks with RNA polymerase to control the bacterial cell cycle and protect against antibiotics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	1
2	Flagellar Perturbations Activate Adhesion through Two Distinct Pathways in <i>Caulobacter crescentus</i> . <i>MBio</i> , 2021, 12, .	4.1	17
3	Quantification of <i>Brucella abortus</i> population structure in a natural host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
4	<i>Brucella ovis</i> Cysteine Biosynthesis Contributes to Peroxide Stress Survival and Fitness in the Intracellular Niche. <i>Infection and Immunity</i> , 2021, 89, .	2.2	5
5	The ChvG-ChvI and NtrY-NtrX Two-Component Systems Coordinately Regulate Growth of <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2021, 203, e0019921.	2.2	15
6	Early-Life Microbial Restitution Reduces Colitis Risk Promoted by Antibiotic-Induced Gut Dysbiosis in Interleukin 10 ^{-/-} Mice. <i>Gastroenterology</i> , 2021, 161, 940-952.e15.	1.3	20
7	Editorial overview: Microbial cell regulation across multiple scales. <i>Current Opinion in Microbiology</i> , 2021, 63, 179-180.	5.1	0
8	Extreme Antagonism Arising from Gene-Environment Interactions. <i>Biophysical Journal</i> , 2020, 119, 2074-2086.	0.5	6
9	Feedback Control of a Two-Component Signaling System by an Fe-S-Binding Receiver Domain. <i>MBio</i> , 2020, 11, .	4.1	14
10	Periplasmic protein EipA determines envelope stress resistance and virulence in <i>Brucella abortus</i> . <i>Molecular Microbiology</i> , 2019, 111, 637-661.	2.5	21
11	Composition of the Holdfast Polysaccharide from <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	15
12	Regulation of the <i>Erythrobacter litoralis</i> DSM 8509 general stress response by visible light. <i>Molecular Microbiology</i> , 2019, 112, 442-460.	2.5	7
13	Regulation of bacterial surface attachment by a network of sensory transduction proteins. <i>PLoS Genetics</i> , 2019, 15, e1008022.	3.5	16
14	<i>Brucella</i> Periplasmic Protein EipB Is a Molecular Determinant of Cell Envelope Integrity and Virulence. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	12
15	A Genome-Wide Analysis of Adhesion in <i>Caulobacter crescentus</i> Identifies New Regulatory and Biosynthetic Components for Holdfast Assembly. <i>MBio</i> , 2019, 10, .	4.1	24
16	A Carbonic Anhydrase Pseudogene Sensitizes Select <i>Brucella</i> Lineages to Low CO ₂ Tension. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	16
17	Genome-scale fitness profile of <i>Caulobacter crescentus</i> grown in natural freshwater. <i>ISME Journal</i> , 2019, 13, 523-536.	9.8	35
18	Bridging the Timescales of Single-Cell and Population Dynamics. <i>Physical Review X</i> , 2018, 8, .	8.9	28

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19	Molecular control of gene expression by <i>Brucella</i> BaaR, an IclR-type transcriptional repressor. <i>Journal of Biological Chemistry</i> , 2018, 293, 7437-7456.	3.4	5
20	Allosteric control of a bacterial stress response system by an anti- σ^H factor. <i>Molecular Microbiology</i> , 2018, 107, 164-179.	2.5	9
21	Gene network analysis identifies a central post-transcriptional regulator of cellular stress survival. <i>ELife</i> , 2018, 7, .	6.0	17
22	Coherent Feedforward Regulation of Gene Expression by <i>Caulobacter crescentus</i> σ^T and GsrN during Hyperosmotic Stress. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	4
23	Experimental evolution of diverse <i>Escherichia coli</i> metabolic mutants identifies genetic loci for convergent adaptation of growth rate. <i>PLoS Genetics</i> , 2018, 14, e1007284.	3.5	24
24	Structure and function of HWE/HisKA2-family sensor histidine kinases. <i>Current Opinion in Microbiology</i> , 2017, 36, 47-54.	5.1	26
25	<i>Brucella abortus</i> Induces a Warburg Shift in Host Metabolism That Is Linked to Enhanced Intracellular Survival of the Pathogen. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	61
26	Conserved ABC Transport System Regulated by the General Stress Response Pathways of Alpha- and Gammaproteobacteria. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	14
27	Atypical modes of bacterial histidine kinase signaling. <i>Molecular Microbiology</i> , 2017, 103, 197-202.	2.5	28
28	Proper Control of <i>Caulobacter crescentus</i> Cell Surface Adhesion Requires the General Protein Chaperone DnaK. <i>Journal of Bacteriology</i> , 2016, 198, 2631-2642.	2.2	10
29	Activation Mechanism of the <i>Bacteroides fragilis</i> Cysteine Peptidase, Fragipain. <i>Biochemistry</i> , 2016, 55, 4077-4084.	2.5	17
30	Classic Spotlight: Studies of the Stringent Response. <i>Journal of Bacteriology</i> , 2016, 198, 1710-1710.	2.2	0
31	Activation of <i>Bacteroides fragilis</i> toxin by a novel bacterial protease contributes to anaerobic sepsis in mice. <i>Nature Medicine</i> , 2016, 22, 563-567.	30.7	76
32	Next-Generation High-Throughput Functional Annotation of Microbial Genomes. <i>MBio</i> , 2016, 7, .	4.1	19
33	<i>Brucella abortus</i> σ^H rpoE1 confers protective immunity against wild type challenge in a mouse model of brucellosis. <i>Vaccine</i> , 2016, 34, 5073-5081.	3.8	8
34	A dual-targeting approach to inhibit <i>Brucella abortus</i> replication in human cells. <i>Scientific Reports</i> , 2016, 6, 35835.	3.3	9
35	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016, 7, 10882.	12.8	113
36	WrpA Is an Atypical Flavodoxin Family Protein under Regulatory Control of the <i>Brucella abortus</i> General Stress Response System. <i>Journal of Bacteriology</i> , 2016, 198, 1281-1293.	2.2	14

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37	Identification of the PhoB Regulon and Role of PhoU in the Phosphate Starvation Response of <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2016, 198, 187-200.	2.2	65
38	Intergenerational continuity of cell shape dynamics in <i>Caulobacter crescentus</i> . <i>Scientific Reports</i> , 2015, 5, 9155.	3.3	17
39	Structured and Dynamic Disordered Domains Regulate the Activity of a Multifunctional Anti- σ^F Factor. <i>MBio</i> , 2015, 6, e00910.	4.1	13
40	Structural asymmetry in a conserved signaling system that regulates division, replication, and virulence of an intracellular pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3709-18.	7.1	52
41	Virulence Regulation with Venus Flytrap Domains: Structure and Function of the Periplasmic Moiety of the Sensor-Kinase BvgS. <i>PLoS Pathogens</i> , 2015, 11, e1004700.	4.7	51
42	<i>Brucella abortus</i> Cell Cycle and Infection Are Coordinated. <i>Trends in Microbiology</i> , 2015, 23, 812-821.	7.7	41
43	Evolving New Protein-Protein Interaction Specificity through Promiscuous Intermediates. <i>Cell</i> , 2015, 163, 594-606.	28.9	167
44	General Stress Signaling in the Alphaproteobacteria. <i>Annual Review of Genetics</i> , 2015, 49, 603-625.	7.6	63
45	The Coding and Noncoding Architecture of the <i>Caulobacter crescentus</i> Genome. <i>PLoS Genetics</i> , 2014, 10, e1004463.	3.5	136
46	A Cell Cycle and Nutritional Checkpoint Controlling Bacterial Surface Adhesion. <i>PLoS Genetics</i> , 2014, 10, e1004101.	3.5	81
47	The <i>B. abortus</i> virulence regulator, <i>LovhK</i> , is a sensor kinase in the general stress response signalling pathway. <i>Molecular Microbiology</i> , 2014, 94, 913-925.	2.5	48
48	Bacterial lifestyle shapes stringent response activation. <i>Trends in Microbiology</i> , 2013, 21, 174-180.	7.7	210
49	<i>myo</i> -Inositol and <i>d</i> -Ribose Ligand Discrimination in an ABC Periplasmic Binding Protein. <i>Journal of Bacteriology</i> , 2013, 195, 2379-2388.	2.2	14
50	The <i>Brucella abortus</i> General Stress Response System Regulates Chronic Mammalian Infection and Is Controlled by Phosphorylation and Proteolysis. <i>Journal of Biological Chemistry</i> , 2013, 288, 13906-13916.	3.4	65
51	Chromosome replication and segregation govern the biogenesis and inheritance of inorganic polyphosphate granules. <i>Molecular Biology of the Cell</i> , 2013, 24, 3177-3186.	2.1	37
52	The <i>LovK-LovR</i> Two-Component System Is a Regulator of the General Stress Pathway in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2012, 194, 3038-3049.	2.2	76
53	Cell biology of micro-organisms and the evolution of the eukaryotic cell. <i>Molecular Biology of the Cell</i> , 2012, 23, 974-974.	2.1	0
54	Molecular Structure and Function of the Novel <i>BrnT/BrnA</i> Toxin-Antitoxin System of <i>Brucella abortus</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 12098-12110.	3.4	75

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55	ppGpp and Polyphosphate Modulate Cell Cycle Progression in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2012, 194, 28-35.	2.2	84
56	Structural basis of a protein partner switch that regulates the general stress response of α -proteobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1415-23.	7.1	42
57	Function, structure and mechanism of bacterial photosensory LOV proteins. <i>Nature Reviews Microbiology</i> , 2011, 9, 713-723.	28.6	217
58	Ligand-Binding PAS Domains in a Genomic, Cellular, and Structural Context. <i>Annual Review of Microbiology</i> , 2011, 65, 261-286.	7.3	369
59	The complex logic of stringent response regulation in <i>Caulobacter crescentus</i> : starvation signalling in an oligotrophic environment. <i>Molecular Microbiology</i> , 2011, 80, 695-714.	2.5	79
60	Interaction specificity, toxicity and regulation of a paralogous set of ParE/RelE family toxin-antitoxin systems. <i>Molecular Microbiology</i> , 2010, 77, 236-251.	2.5	93
61	A structural model of anti- σ inhibition by a two-component receiver domain: the PhyR stress response regulator. <i>Molecular Microbiology</i> , 2010, 78, 290-304.	2.5	52
62	The Genetic Basis of Laboratory Adaptation in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2010, 192, 3678-3688.	2.2	166
63	An Analysis of the Solution Structure and Signaling Mechanism of LovK, a Sensor Histidine Kinase Integrating Light and Redox Signals. <i>Biochemistry</i> , 2010, 49, 6761-6770.	2.5	70
64	A Conserved Mode of Protein Recognition and Binding in a ParD-ParE Toxin-Antitoxin Complex. <i>Biochemistry</i> , 2010, 49, 2205-2215.	2.5	76
65	Electronic and Protein Structural Dynamics of a Photosensory Histidine Kinase. <i>Biochemistry</i> , 2010, 49, 4752-4759.	2.5	20
66	The Photobiology of Microbial Pathogenesis. <i>PLoS Pathogens</i> , 2009, 5, e1000470.	4.7	48
67	Tightly Regulated and Heritable Division Control in Single Bacterial Cells. <i>Biophysical Journal</i> , 2008, 95, 2063-2072.	0.5	56
68	Photoregulation in prokaryotes. <i>Current Opinion in Microbiology</i> , 2008, 11, 168-178.	5.1	93
69	Genetic and Computational Identification of a Conserved Bacterial Metabolic Module. <i>PLoS Genetics</i> , 2008, 4, e1000310.	3.5	26
70	A photosensory two-component system regulates bacterial cell attachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18241-18246.	7.1	164
71	A Bacterial Pathogen Sees the Light. <i>Science</i> , 2007, 317, 1041-1042.	12.6	8
72	LOV-Domain Structure, Dynamics, and Diversity. , 2005, , 323-336.		4

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73	Conserved modular design of an oxygen sensory/signaling network with species-specific output. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8018-8023.	7.1	80
74	A Genetic Oscillator and the Regulation of Cell Cycle Progression in <i>Caulobacter crescentus</i> . Cell Cycle, 2004, 3, 1252-1254.	2.6	8
75	The LOV2 Domain of Phototropin: A Reversible Photochromic Switch. Journal of the American Chemical Society, 2004, 126, 4512-4513.	13.7	102
76	The LOV Domain Family: A Photoresponsive Signaling Modules Coupled to Diverse Output Domains. Biochemistry, 2003, 42, 2-10.	2.5	387
77	Primary Reactions of the LOV2 Domain of Phototropin, a Plant Blue-Light Photoreceptor. Biochemistry, 2003, 42, 3385-3392.	2.5	214
78	Photoexcited Structure of a Plant Photoreceptor Domain Reveals a Light-Driven Molecular Switch. Plant Cell, 2002, 14, 1067-1075.	6.6	358