

Sean Crosson

List of Publications by Citations

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77
papers

3,680
citations

34
h-index

60
g-index

99
ext. papers

4,431
ext. citations

7.9
avg, IF

5.69
L-index

#	Paper	IF	Citations
77	The LOV domain family: photoresponsive signaling modules coupled to diverse output domains. <i>Biochemistry</i> , 2003 , 42, 2-10	3.2	352
76	Photoexcited structure of a plant photoreceptor domain reveals a light-driven molecular switch. <i>Plant Cell</i> , 2002 , 14, 1067-75	11.6	328
75	Ligand-binding PAS domains in a genomic, cellular, and structural context. <i>Annual Review of Microbiology</i> , 2011 , 65, 261-86	17.5	268
74	Primary reactions of the LOV2 domain of phototropin, a plant blue-light photoreceptor. <i>Biochemistry</i> , 2003 , 42, 3385-92	3.2	200
73	Function, structure and mechanism of bacterial photosensory LOV proteins. <i>Nature Reviews Microbiology</i> , 2011 , 9, 713-23	22.2	168
72	Bacterial lifestyle shapes stringent response activation. <i>Trends in Microbiology</i> , 2013 , 21, 174-80	12.4	148
71	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, 18241-6	11.5	136
70	The genetic basis of laboratory adaptation in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2010 , 192, 3678-88	3.5	124
69	The coding and noncoding architecture of the <i>Caulobacter crescentus</i> genome. <i>PLoS Genetics</i> , 2014 , 10, e1004463	6	101
68	Evolving new protein-protein interaction specificity through promiscuous intermediates. <i>Cell</i> , 2015 , 163, 594-606	56.2	99
67	Photoregulation in prokaryotes. <i>Current Opinion in Microbiology</i> , 2008 , 11, 168-78	7.9	83
66	The LOV2 domain of phototropin: a reversible photochromic switch. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4512-3	16.4	83
65	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016 , 7, 10882	17.4	78
64	Cell biology of micro-organisms and the evolution of the eukaryotic cell. <i>Molecular Biology of the Cell</i> , 2012 , 23, 974-974	3.5	78
63	Interaction specificity, toxicity and regulation of a paralogous set of ParE/RelE-family toxin-antitoxin systems. <i>Molecular Microbiology</i> , 2010 , 77, 236-51	4.1	77
62	Conserved modular design of an oxygen sensory/signaling network with species-specific output. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8018-23	11.5	71
61	ppGpp and polyphosphate modulate cell cycle progression in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 28-35	3.5	66

60	A conserved mode of protein recognition and binding in a ParD-ParE toxin-antitoxin complex. <i>Biochemistry</i> , 2010 , 49, 2205-15	3.2	61
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	4.1	58
58	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, 6761-70	3.2	58
57	The LovK-LovR two-component system is a regulator of the general stress pathway in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 3038-49	3.5	58
56	Activation of <i>Bacteroides fragilis</i> toxin by a novel bacterial protease contributes to anaerobic sepsis in mice. <i>Nature Medicine</i> , 2016 , 22, 563-7	50.5	55
55	A cell cycle and nutritional checkpoint controlling bacterial surface adhesion. <i>PLoS Genetics</i> , 2014 , 10, e1004101	6	52
54	Tightly regulated and heritable division control in single bacterial cells. <i>Biophysical Journal</i> , 2008 , 95, 2063-72	2.9	49
53	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, 13906-16	5.4	47
52	A structural model of anti-anti-inhibition by a two-component receiver domain: the PhyR stress response regulator. <i>Molecular Microbiology</i> , 2010 , 78, 290-304	4.1	45
51	General Stress Signaling in the Alphaproteobacteria. <i>Annual Review of Genetics</i> , 2015 , 49, 603-25	14.5	44
50	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	11.5	43
49	The photobiology of microbial pathogenesis. <i>PLoS Pathogens</i> , 2009 , 5, e1000470	7.6	42
48	Molecular structure and function of the novel BrnT/BrnA toxin-antitoxin system of <i>Brucella abortus</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 12098-110	5.4	42
47	Structural basis of a protein partner switch that regulates the general stress response of β proteobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1415-23	11.5	38
46	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	3.5	36
45	<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,	3.5	36
44	The <i>Brucella abortus</i> virulence regulator, LovhK, is a sensor kinase in the general stress response signalling pathway. <i>Molecular Microbiology</i> , 2014 , 94, 913-25	4.1	35
43	Chromosome replication and segregation govern the biogenesis and inheritance of inorganic polyphosphate granules. <i>Molecular Biology of the Cell</i> , 2013 , 24, 3177-86	3.5	28

42	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	7.6	26
41	<i>Brucella abortus</i> Cell Cycle and Infection Are Coordinated. <i>Trends in Microbiology</i> , 2015 , 23, 812-821	12.4	24
40	Genetic and computational identification of a conserved bacterial metabolic module. <i>PLoS Genetics</i> , 2008 , 4, e1000310	6	24
39	Atypical modes of bacterial histidine kinase signaling. <i>Molecular Microbiology</i> , 2017 , 103, 197-202	4.1	18
38	Electronic and protein structural dynamics of a photosensory histidine kinase. <i>Biochemistry</i> , 2010 , 49, 4752-9	3.2	18
37	Genome-scale fitness profile of <i>Caulobacter crescentus</i> grown in natural freshwater. <i>ISME Journal</i> , 2019 , 13, 523-536	11.9	18
36	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	6	17
35	Next-Generation High-Throughput Functional Annotation of Microbial Genomes. <i>MBio</i> , 2016 , 7,	7.8	16
34	A Genome-Wide Analysis of Adhesion in Identifies New Regulatory and Biosynthetic Components for Holdfast Assembly. <i>MBio</i> , 2019 , 10,	7.8	14
33	Structure and function of HWE/HisKA2-family sensor histidine kinases. <i>Current Opinion in Microbiology</i> , 2017 , 36, 47-54	7.9	13
32	Bridging the Timescales of Single-Cell and Population Dynamics. <i>Physical Review X</i> , 2018 , 8,	9.1	13
31	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, 1281-93	3.5	12
30	myo-inositol and D-ribose ligand discrimination in an ABC periplasmic binding protein. <i>Journal of Bacteriology</i> , 2013 , 195, 2379-88	3.5	12
29	Gene network analysis identifies a central post-transcriptional regulator of cellular stress survival. <i>ELife</i> , 2018 , 7,	8.9	12
28	Conserved ABC Transport System Regulated by the General Stress Response Pathways of Alpha- and Gammaproteobacteria. <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	11
27	Activation Mechanism of the <i>Bacteroides fragilis</i> Cysteine Peptidase, Fragipain. <i>Biochemistry</i> , 2016 , 55, 4077-84	3.2	11
26	Intergenerational continuity of cell shape dynamics in <i>Caulobacter crescentus</i> . <i>Scientific Reports</i> , 2015 , 5, 9155	4.9	10
25	Structured and Dynamic Disordered Domains Regulate the Activity of a Multifunctional Anti- σ Factor. <i>MBio</i> , 2015 , 6, e00910	7.8	10

24	Periplasmic protein EipA determines envelope stress resistance and virulence in <i>Brucella abortus</i> . <i>Molecular Microbiology</i> , 2019 , 111, 637-661	4.1	10
23	Feedback Control of a Two-Component Signaling System by an Fe-S-Binding Receiver Domain. <i>MBio</i> , 2020 , 11,	7.8	8
22	Composition of the Holdfast Polysaccharide from. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	7
21	Microbiology. A bacterial pathogen sees the light. <i>Science</i> , 2007 , 317, 1041-2	33.3	7
20	A genetic oscillator and the regulation of cell cycle progression in <i>Caulobacter crescentus</i> . <i>Cell Cycle</i> , 2004 , 3, 1252-4	4.7	7
19	Proper Control of <i>Caulobacter crescentus</i> Cell Surface Adhesion Requires the General Protein Chaperone DnaK. <i>Journal of Bacteriology</i> , 2016 , 198, 2631-42	3.5	7
18	A Carbonic Anhydrase Pseudogene Sensitizes Select Lineages to Low CO Tension. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	7
17	Flagellar Perturbations Activate Adhesion through Two Distinct Pathways in. <i>MBio</i> , 2021 , 12,	7.8	7
16	Periplasmic Protein EipB Is a Molecular Determinant of Cell Envelope Integrity and Virulence. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	5
15	<i>Brucella abortus</i> EpoE1 confers protective immunity against wild type challenge in a mouse model of brucellosis. <i>Vaccine</i> , 2016 , 34, 5073-5081	4.1	5
14	A dual-targeting approach to inhibit <i>Brucella abortus</i> replication in human cells. <i>Scientific Reports</i> , 2016 , 6, 35835	4.9	5
13	Regulation of bacterial surface attachment by a network of sensory transduction proteins. <i>PLoS Genetics</i> , 2019 , 15, e1008022	6	4
12	Allosteric control of a bacterial stress response system by an anti- σ -factor. <i>Molecular Microbiology</i> , 2018 , 107, 164-179	4.1	4
11	LOV-Domain Structure, Dynamics, and Diversity 2005 , 323-336		4
10	Quantification of population structure in a natural host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
9	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	13.3	4
8	Regulation of the <i>Erythrobacter litoralis</i> DSM 8509 general stress response by visible light. <i>Molecular Microbiology</i> , 2019 , 112, 442-460	4.1	3
7	Molecular control of gene expression by BaaR, an IclR-type transcriptional repressor. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7437-7456	5.4	3

6	Coherent Feedforward Regulation of Gene Expression by <i>Caulobacter</i> and GsrN during Hyperosmotic Stress. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	3
5	Quantification of <i>Brucella abortus</i> population structure in a natural host		3
4	Gene network analysis identifies a central post-transcriptional regulator of cellular stress survival		2
3	<i>Brucella ovis</i> Cysteine Biosynthesis Contributes to Peroxide Stress Survival and Fitness in the Intracellular Niche. <i>Infection and Immunity</i> , 2021 , 89,	3.7	2
2	Extreme Antagonism Arising from Gene-Environment Interactions. <i>Biophysical Journal</i> , 2020 , 119, 2074-2086	3.9	1
1	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	3.5	1