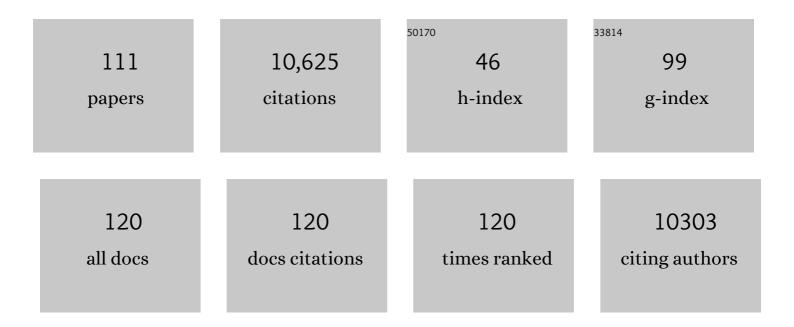
List of Publications by Year in descending order

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ΙΟΟΡΑ̈́Β ΖΗΠΙΝ

#	Article	IF	CITATIONS
1	Amino acid sensor conserved from bacteria to humans. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2110415119.	3.3	31
2	Biallelic <i>CACNA2D1</i> loss-of-function variants cause early-onset developmental epileptic encephalopathy. Brain, 2022, 145, 2721-2729.	3.7	15
3	Phyletic Distribution and Diversification of the Phage Shock Protein Stress Response System in Bacteria and Archaea. MSystems, 2022, 7, .	1.7	11
4	The <i>Campylobacter jejuni</i> chemoreceptor Tlp10 has a bimodal ligand-binding domain and specificity for multiple classes of chemoeffectors. Science Signaling, 2021, 14, .	1.6	29
5	Diversity of bacterial chemosensory systems. Current Opinion in Microbiology, 2021, 61, 42-50.	2.3	32
6	A species-specific functional module controls formation of pollen apertures. Nature Plants, 2021, 7, 966-978.	4.7	8
7	MiST 3.0: an updated microbial signal transduction database with an emphasis on chemosensory systems. Nucleic Acids Research, 2020, 48, D459-D464.	6.5	129
8	Identification and Characterization of a Novel CLCN7 Variant Associated with Osteopetrosis. Genes, 2020, 11, 1242.	1.0	3
9	Origins and Molecular Evolution of the NusG Paralog RfaH. MBio, 2020, 11, .	1.8	15
10	How Bacterial Chemoreceptors Evolve Novel Ligand Specificities. MBio, 2020, 11, .	1.8	52
11	TREND: a platform for exploring protein function in prokaryotes based on phylogenetic, domain architecture and gene neighborhood analyses. Nucleic Acids Research, 2020, 48, W72-W76.	6.5	44
12	A di-iron protein recruited as an Fe[II] and oxygen sensor for bacterial chemotaxis functions by stabilizing an iron-peroxy species. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14955-14960.	3.3	23
13	The ligandâ€binding domain of a chemoreceptor from <i>Comamonas testosteroni</i> has a previously unknown homotrimeric structure. Molecular Microbiology, 2019, 112, 906-917.	1.2	13
14	Cross Talk between Chemosensory Pathways That Modulate Chemotaxis and Biofilm Formation. MBio, 2019, 10, .	1.8	49
15	Characterization of Squamous Cell Lung Cancers from Appalachian Kentucky. Cancer Epidemiology Biomarkers and Prevention, 2019, 28, 348-356.	1.1	5
16	Phylogenetic and Protein Sequence Analysis of Bacterial Chemoreceptors. Methods in Molecular Biology, 2018, 1729, 373-385.	0.4	3
17	Insights into the Evolution of Host Association through the Isolation and Characterization of a Novel Human Periodontal Pathobiont, <i>Desulfobulbus oralis</i> . MBio, 2018, 9, .	1.8	32
18	A novel <i>PRRT2</i> pathogenic variant in a family with paroxysmal kinesigenic dyskinesia and benign familial infantile seizures. Journal of Physical Education and Sports Management, 2018, 4, a002287.	0.5	9

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19	Comparative study of the effect of disease causing and benign mutations in position Q92 on cholesterol binding by the NPC1 nâ€ŧerminal domain. Proteins: Structure, Function and Bioinformatics, 2018, 86, 1165-1175.	1.5	5
20	Conservation of the separase regulatory domain. Biology Direct, 2018, 13, 7.	1.9	2
21	By Staying Together, Two Genes Keep the Motor Running. Structure, 2017, 25, 214-215.	1.6	4
22	Class III Histidine Kinases: a Recently Accessorized Kinase Domain in Putative Modulators of Type IV Pilus-Based Motility. Journal of Bacteriology, 2017, 199, .	1.0	14
23	Classic Spotlight: Selected Highlights from the First 100 Years of the <i>Journal of Bacteriology</i> . Journal of Bacteriology, 2017, 199, .	1.0	0
24	Electrostatics Facilitates the Trimer-of-Dimers Formation of the Chemoreceptor Signaling Domain. Biophysical Journal, 2017, 112, 89a.	0.2	0
25	Sensory Repertoire of Bacterial Chemoreceptors. Microbiology and Molecular Biology Reviews, 2017, 81, .	2.9	158
26	Two-Component Signal Transduction: a Special Issue in the <i>Journal of Bacteriology</i> . Journal of Bacteriology, 2017, 199, .	1.0	0
27	Call for Original Research Papers for a Special Collection in <i>Journal of Bacteriology</i> : Two-Component Signal Transduction. Journal of Bacteriology, 2017, 199, .	1.0	Ο
28	Assigning chemoreceptors to chemosensory pathways in <i>Pseudomonas aeruginosa</i> . Proceedings of the United States of America, 2017, 114, 12809-12814.	3.3	72
29	Aquerium: A web application for comparative exploration of domainâ€based protein occurrences on the taxonomically clustered genome tree. Proteins: Structure, Function and Bioinformatics, 2017, 85, 72-77.	1.5	14
30	Classic Spotlight: 16S rRNA Redefines Microbiology. Journal of Bacteriology, 2016, 198, 2764-2765.	1.0	2
31	The Conserved Tetratricopeptide Repeat-Containing C-Terminal Domain of Pseudomonas aeruginosa FimV Is Required for Its Cyclic AMP-Dependent and -Independent Functions. Journal of Bacteriology, 2016, 198, 2263-2274.	1.0	23
32	A direct-sensing galactose chemoreceptor recently evolved in invasive strains of Campylobacter jejuni. Nature Communications, 2016, 7, 13206.	5.8	49
33	Joint mouse–human phenome-wide association to test gene function and disease risk. Nature Communications, 2016, 7, 10464.	5.8	190
34	Classic Spotlight: Genetics of Escherichia coli Chemotaxis. Journal of Bacteriology, 2016, 198, 3041-3041.	1.0	1
35	Establishing the precise evolutionary history of a gene improves prediction of disease-causing missense mutations. Genetics in Medicine, 2016, 18, 1029-1036.	1.1	31
36	Evolutionary Genomics Suggests That CheV Is an Additional Adaptor for Accommodating Specific Chemoreceptors within the Chemotaxis Signaling Complex. PLoS Computational Biology, 2016, 12, e1004723.	1.5	34

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37	Cache Domains That are Homologous to, but Different from PAS Domains Comprise the Largest Superfamily of Extracellular Sensors in Prokaryotes. PLoS Computational Biology, 2016, 12, e1004862.	1.5	147
38	Databases for Microbiologists. Journal of Bacteriology, 2015, 197, 2458-2467.	1.0	39
39	CDvist: a webserver for identification and visualization of conserved domains in protein sequences. Bioinformatics, 2015, 31, 1475-1477.	1.8	69
40	SeqDepot: streamlined database of biological sequences and precomputed features. Bioinformatics, 2014, 30, 295-297.	1.8	10
41	<i>Sisters Unbound</i> Is Required for Meiotic Centromeric Cohesion in <i>Drosophila melanogaster</i> . Genetics, 2014, 198, 947-965.	1.2	34
42	A phenylalanine rotameric switch for signal-state control in bacterial chemoreceptors. Nature Communications, 2013, 4, 2881.	5.8	37
43	The 3.2 Ã Resolution Structure of a Receptor:CheA:CheW Signaling Complex Defines Overlapping Binding Sites and Key Residue Interactions within Bacterial Chemosensory Arrays. Biochemistry, 2013, 52, 3852-3865.	1.2	80
44	Analysis of Activator and Repressor Functions Reveals the Requirements for Transcriptional Control by LuxR, the Master Regulator of Quorum Sensing in Vibrio harveyi. MBio, 2013, 4, .	1.8	81
45	Conformational Coupling between Receptor and Kinase Binding Sites through a Conserved Salt Bridge in a Signaling Complex Scaffold Protein. PLoS Computational Biology, 2013, 9, e1003337.	1.5	13
46	Chemoreceptor Gene Loss and Acquisition via Horizontal Gene Transfer in Escherichia coli. Journal of Bacteriology, 2013, 195, 3596-3602.	1.0	11
47	Homology Modeling of the CheW Coupling Protein of the Chemotaxis Signaling Complex. PLoS ONE, 2013, 8, e70705.	1.1	5
48	Sequence, Structure, and Evolution of Cellulases in Glycoside Hydrolase Family 48. Journal of Biological Chemistry, 2012, 287, 41068-41077.	1.6	32
49	Dynamics of domain coverage of the protein sequence universe. BMC Genomics, 2012, 13, 634.	1.2	10
50	Azospirillum Genomes Reveal Transition of Bacteria from Aquatic to Terrestrial Environments. PLoS Genetics, 2011, 7, e1002430.	1.5	191
51	Cellulases: ambiguous nonhomologous enzymes in a genomic perspective. Trends in Biotechnology, 2011, 29, 473-479.	4.9	78
52	PAS domain containing chemoreceptor couples dynamic changes in metabolism with chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2235-2240.	3.3	68
53	The MiST2 database: a comprehensive genomics resource on microbial signal transduction. Nucleic Acids Research, 2010, 38, D401-D407.	6.5	235
54	Origins and Diversification of a Complex Signal Transduction System in Prokaryotes. Science Signaling, 2010, 3, ra50.	1.6	342

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55	Evolution and phyletic distribution of two-component signal transduction systems. Current Opinion in Microbiology, 2010, 13, 219-225.	2.3	221
56	Universal architecture of bacterial chemoreceptor arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17181-17186.	3.3	320
57	Conserved Residues in the HAMP Domain Define a New Family of Proposed Bipartite Energy Taxis Receptors. Journal of Bacteriology, 2009, 191, 375-387.	1.0	31
58	It Is Computation Time for Bacteriology!. Journal of Bacteriology, 2009, 191, 20-22.	1.0	27
59	HSP-HMMER. , 2009, , .		8
60	The complete genome sequence of Staphylothermus marinus reveals differences in sulfur metabolism among heterotrophic Crenarchaeota. BMC Genomics, 2009, 10, 145.	1.2	26
61	CheC is related to the family of flagellar switch proteins and acts independently from CheD to control chemotaxis in Bacillus subtilis. Molecular Microbiology, 2008, 42, 573-585.	1.2	57
62	Towards environmental systems biology of Shewanella. Nature Reviews Microbiology, 2008, 6, 592-603.	13.6	829
63	Genome Sequence of <i>Thermofilum pendens</i> Reveals an Exceptional Loss of Biosynthetic Pathways without Genome Reduction. Journal of Bacteriology, 2008, 190, 2957-2965.	1.0	53
64	Complete Genome Sequence of the Complex Carbohydrate-Degrading Marine Bacterium, Saccharophagus degradans Strain 2-40T. PLoS Genetics, 2008, 4, e1000087.	1.5	142
65	Evolutionary genomics reveals conserved structural determinants of signaling and adaptation in microbial chemoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2885-2890.	3.3	235
66	MiST: a microbial signal transduction database. Nucleic Acids Research, 2007, 35, D386-D390.	6.5	103
67	FIST: a sensory domain for diverse signal transduction pathways in prokaryotes and ubiquitin signaling in eukaryotes. Bioinformatics, 2007, 23, 2518-2521.	1.8	23
68	Comparative Genomic and Protein Sequence Analyses of a Complex System Controlling Bacterial Chemotaxis. Methods in Enzymology, 2007, 422, 3-31.	0.4	110
69	Reconstructing Signal Transduction from Raw Genomic Data. , 2007, , .		0
70	Burkholderia xenovorans LB400 harbors a multi-replicon, 9.73-Mbp genome shaped for versatility. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15280-15287.	3.3	339
71	Life in Hot Carbon Monoxide: The Complete Genome Sequence of Carboxydothermus hydrogenoformans Z-2901. PLoS Genetics, 2005, 1, e65.	1.5	226
72	Four-helix bundle: a ubiquitous sensory module in prokaryotic signal transduction. Bioinformatics, 2005, 21, iii45-iii48.	1.8	60

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73	One-component systems dominate signal transduction in prokaryotes. Trends in Microbiology, 2005, 13, 52-56.	3.5	461
74	Life in Hot Carbon Monoxide: the Complete Genome Sequence of Carboxydothermus hydrogenoformans Z-2901. PLoS Genetics, 2005, preprint, e65.	1.5	1
75	Ecological role of energy taxis in microorganisms. FEMS Microbiology Reviews, 2004, 28, 113-126.	3.9	158
76	Digging with Experimental Pick and Computational Shovel: a New Addition to the Histidine Kinase Superfamily. Journal of Bacteriology, 2004, 186, 267-269.	1.0	2
77	The NIT domain: a predicted nitrate-responsive module in bacterial sensory receptors. Trends in Biochemical Sciences, 2003, 28, 121-124.	3.7	54
78	Model of Bacterial Band Formation in Aerotaxis. Biophysical Journal, 2003, 85, 3558-3574.	0.2	51
79	Molecular evolution of sensory domains in cyanobacterial chemoreceptors. Trends in Microbiology, 2003, 11, 200-203.	3.5	26
80	Aer and Tsr guide Escherichia coli in spatial gradients of oxidizable substrates. Microbiology (United) Tj ETQq0 0	0 rgBT /0\	verlock 10 Tf
81	Different Evolutionary Constraints on Chemotaxis Proteins CheW and CheY Revealed by Heterologous Expression Studies and Protein Sequence Analysis. Journal of Bacteriology, 2003, 185, 544-552.	1.0	30
82	Common Extracellular Sensory Domains in Transmembrane Receptors for Diverse Signal Transduction Pathways in Bacteria and Archaea. Journal of Bacteriology, 2003, 185, 285-294.	1.0	129
83	Positional cloning of the murine flavivirus resistance gene. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9322-9327.	3.3	245
84	Predicted structure and phyletic distribution of the RNA-binding protein Hfq. Nucleic Acids Research, 2002, 30, 3662-3671.	6.5	191
85	Dual Recognition of the Bacterial Chemoreceptor by Chemotaxis-specific Domains of the CheR Methyltransferase. Journal of Biological Chemistry, 2002, 277, 42325-42333.	1.6	66
86	A major chemotaxis gene cluster in Azospirillum brasilense and relationships between chemotaxis operons in α-proteobacteria. FEMS Microbiology Letters, 2002, 208, 61-67.	0.7	1
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87	Biochemical Sciences, 2002, 27, 3-5.	3.7	74
88	In search of higher energy: metabolism-dependent behaviour in bacteria. Molecular Microbiology, 2002, 28, 683-690.	1.2	70
89	A major chemotaxis gene cluster inAzospirillum brasilenseand relationships between chemotaxis operons in α-proteobacteria. FEMS Microbiology Letters, 2002, 208, 61-67.	0.7	39

90Quod erat demonstrandum? The mystery of experimental validation of apparently erroneous
computational analyses of protein sequences. Genome Biology, 2001, 2, research0051.1.13.948

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91	CHASE: an extracellular sensing domain common to transmembrane receptors from prokaryotes, lower eukaryotes and plants. Trends in Biochemical Sciences, 2001, 26, 582-584.	3.7	117
92	More Than One Way To Sense Chemicals. Journal of Bacteriology, 2001, 183, 4681-4686.	1.0	70
93	The superfamily of chemotaxis transducers: From physiology to genomics and back. Advances in Microbial Physiology, 2001, 45, 157-198.	1.0	133
94	PAS domain residues involved in signal transduction by the Aer redox sensor of Escherichia coli. Molecular Microbiology, 2000, 36, 806-816.	1.2	111
95	Laccases are widespread in bacteria. Trends in Biotechnology, 2000, 18, 41-42.	4.9	257
96	Energy Taxis Is the Dominant Behavior in Azospirillum brasilense. Journal of Bacteriology, 2000, 182, 6042-6048.	1.0	105
97	PAS Domains: Internal Sensors of Oxygen, Redox Potential, and Light. Microbiology and Molecular Biology Reviews, 1999, 63, 479-506.	2.9	1,447
98	Aerotaxis and Other Energy-Sensing Behavior in Bacteria. Annual Review of Microbiology, 1999, 53, 103-128.	2.9	264
99	Loss of Cytochrome <i>c</i> Oxidase Activity and Acquisition of Resistance to Quinone Analogs in a Laccase-Positive Variant of <i>Azospirillum lipoferum</i> . Journal of Bacteriology, 1999, 181, 6730-6738.	1.0	22
100	The Aer protein and the serine chemoreceptor Tsr independently sense intracellular energy levels and transduce oxygen, redox, and energy signals for Escherichia coli behavior. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10541-10546.	3.3	268
101	Oxygen-dependent growth of the obligate anaerobe Desulfovibrio vulgaris Hildenborough. Journal of Bacteriology, 1997, 179, 5598-5601.	1.0	109
102	Terminal oxidases of Azoarcus sp. BH72, a strictly respiratory diazotroph. FEBS Letters, 1997, 404, 143-147.	1.3	13
103	PAS domain S-boxes in archaea, bacteria and sensors for oxygen and redox. Trends in Biochemical Sciences, 1997, 22, 331-333.	3.7	412
104	How Do Bacteria Avoid High Oxygen Concentrations?. Bioscience Reports, 1997, 17, 335-342.	1.1	22
105	Behavioral responses of Escherichia coli to changes in redox potential Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 10084-10089.	3.3	90
106	Behavior ofRhizobium melilotiin oxygen gradients. FEBS Letters, 1995, 367, 180-182.	1.3	13
107	Chemotaxis in Plant-Associated Bacteria: the Search for the Ecological Niche. , 1995, , 451-459.		6
108	Changes in Membrane Potential upon Chemotactic Stimulation of Azospirillum brasilense. , 1995, , 299-305.		0

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109	A rapid method for the measurement of bacterial chemotaxis. Current Microbiology, 1991, 22, 307-309.	1.0	10
110	Chemotaxis ofAzospirillum brasilense towards compounds typical of plant root exudates. Folia Microbiologica, 1988, 33, 277-280.	1.1	19
111	Chemotaxis and Motility. , 0, , 437-452.		30