Yunrong Chai

List of Publications by Year
in descending order

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59 papers	5,170 citations	126907 33 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	4867 citing authors

#	Article	IF	Citations
1	Sticking together: building a biofilm the Bacillus subtilis way. Nature Reviews Microbiology, 2013, 11, 157-168.	28.6	834
2	Bacillus subtilis biofilm induction by plant polysaccharides. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1621-30.	7.1	455
3	Biocontrol of tomato wilt disease by <scp>B</scp>acillus subtilis isolates from natural environments depends on conserved genes mediating biofilm formation. Environmental Microbiology, 2013, 15, 848-864.	3.8	389
4	Bistability and biofilm formation in Bacillus subtilis. Molecular Microbiology, 2008, 67, 254-263.	2.5	297
5	A Bacillus subtilis sensor kinase involved in triggering biofilm formation on the roots of tomato plants. Molecular Microbiology, 2012, 85, 418-430.	2.5	211
6	Agrobacterium Bioassay Strain for Ultrasensitive Detection of N -Acylhomoserine Lactone-Type Quorum-Sensing Molecules: Detection of Autoinducers in Mesorhizobium huakuii. Applied and Environmental Microbiology, 2003, 69, 6949-6953.	3.1	206
7	Wheat microbiome bacteria can reduce virulence of a plant pathogenic fungus by altering histone acetylation. Nature Communications, 2018, 9, 3429.	12.8	184
8	An epigenetic switch governing daughter cell separation in Bacillus subtilis. Genes and Development, 2010, 24, 754-765.	5.9	160
9	A Combination of Glycerol and Manganese Promotes Biofilm Formation in Bacillus subtilis via Histidine Kinase KinD Signaling. Journal of Bacteriology, 2013, 195, 2747-2754.	2.2	157
10	Galactose Metabolism Plays a Crucial Role in Biofilm Formation by Bacillus subtilis. MBio, 2012, 3, e00184-12.	4.1	140
11	A novel regulatory protein governing biofilm formation in Bacillus subtilis. Molecular Microbiology, 2008, 68, 1117-1127.	2.5	129
12	Evidence for Cyclic Di-GMP-Mediated Signaling in Bacillus subtilis. Journal of Bacteriology, 2012, 194, 5080-5090.	2.2	121
13	A Widely Conserved Gene Cluster Required for Lactate Utilization inBacillus subtilisand Its Involvement in Biofilm Formation. Journal of Bacteriology, 2009, 191, 2423-2430.	2.2	120
14	Acetic Acid Acts as a Volatile Signal To Stimulate Bacterial Biofilm Formation. MBio, 2015, 6, e00392.	4.1	90
15	TrlR, a defective TraR-like protein of Agrobacterium tumefaciens, blocks TraR function in vitro by forming inactive TrlR:TraR dimers. Molecular Microbiology, 2001, 40, 414-421.	2.5	75
16	A serine sensor for multicellularity in a bacterium. ELife, 2013, 2, e01501.	6.0	73
17	Paralogous antirepressors acting on the master regulator for biofilm formation in Bacillus subtilis. Molecular Microbiology, 2009, 74, 876-887.	2.5	71
18	Reversal of an epigenetic switch governing cell chaining in Bacillus subtilis by protein instability. Molecular Microbiology, 2010, 78, 218-229.	2.5	71

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19	Alternative modes of biofilm formation by plantâ€associated Bacillus cereus. MicrobiologyOpen, 2015, 4, 452-464.	3.0	70
20	Evidence that metabolism and chromosome copy number control mutually exclusive cell fates inBacillus subtilis. EMBO Journal, 2011, 30, 1402-1413.	7.8	69
21	Treating Polymicrobial Infections in Chronic Diabetic Wounds. Clinical Microbiology Reviews, 2019, 32, .	13.6	65
22	Sucrose triggers a novel signaling cascade promoting Bacillus subtilis rhizosphere colonization. ISME Journal, 2021, 15, 2723-2737.	9.8	63
23	The LuxS Based Quorum Sensing Governs Lactose Induced Biofilm Formation by Bacillus subtilis. Frontiers in Microbiology, 2015, 6, 1517.	3.5	60
24	Genome-Wide Investigation of Biofilm Formation in Bacillus cereus. Applied and Environmental Microbiology, 2017, 83, .	3.1	60
25	A small antisense RNA downregulates expression of an essential replicase protein of an Agrobacterium tumefaciens Ti plasmid. Molecular Microbiology, 2005, 56, 1574-1585.	2.5	58
26	The role of rhizodeposits in shaping rhizomicrobiome. Environmental Microbiology Reports, 2020, 12, 160-172.	2.4	56
27	Site-directed mutagenesis of a LuxR-type quorum-sensing transcription factor: alteration of autoinducer specificity. Molecular Microbiology, 2003, 51, 765-776.	2.5	54
28	Direct binding of the quorum sensing regulator CepR ofBurkholderia cenocepaciato two target promotersin vitro. Molecular Microbiology, 2005, 57, 452-467.	2.5	52
29	Reconstitution of the Biochemical Activities of the AttJ Repressor and the AttK, AttL, and AttM Catabolic Enzymes of Agrobacterium tumefaciens. Journal of Bacteriology, 2007, 189, 3674-3679.	2.2	52
30	Poly-Î³-Glutamic Acids Contribute to Biofilm Formation and Plant Root Colonization in Selected Environmental Isolates of Bacillus subtilis. Frontiers in Microbiology, 2016, 7, 1811.	3.5	52
31	Heterogeneity in respiratory electron transfer and adaptive iron utilization in a bacterial biofilm. Nature Communications, 2019, 10, 3702.	12.8	52
32	Biofilm formation by Bacillus subtilis requires an endoribonucleaseâ€containing multisubunit complex that controls mRNA levels for the matrix gene repressor SinR. Molecular Microbiology, 2016, 99, 425-437.	2.5	51
33	Fusarium fruiting body microbiome member Pantoea agglomerans inhibits fungal pathogenesis by targeting lipid rafts. Nature Microbiology, 2022, 7, 831-843.	13.3	44
34	Bacillus amyloliquefaciens L-S60 Reforms the Rhizosphere Bacterial Community and Improves Growth Conditions in Cucumber Plug Seedling. Frontiers in Microbiology, 2017, 8, 2620.	3.5	39
35	Post-translational regulation of autophagy is involved in intra-microbiome suppression of fungal pathogens. Microbiome, 2021, 9, 131.	11.1	36
36	Characterization of Subtilin L-Q11, a Novel Class I Bacteriocin Synthesized by Bacillus subtilis L-Q11 Isolated From Orchard Soil. Frontiers in Microbiology, 2019, 10, 484.	3.5	35

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37	The spo0A-sinI-sinR Regulatory Circuit Plays an Essential Role in Biofilm Formation, Nematicidal Activities, and Plant Protection in Bacillus cereus AR156. Molecular Plant-Microbe Interactions, 2017, 30, 603-619.	2.6	34
38	The comER Gene Plays an Important Role in Biofilm Formation and Sporulation in both Bacillus subtilis and Bacillus cereus. Frontiers in Microbiology, 2016, 7, 1025.	3.5	33
39	The phosphotransferase system gene ptsH plays an important role in MnSOD production, biofilm formation, swarming motility, and root colonization in Bacillus cereus 905. Research in Microbiology, 2019, 170, 86-96.	2.1	32
40	The Bacterial Tyrosine Kinase Activator TkmA Contributes to Biofilm Formation Largely Independently of the Cognate Kinase PtkA in Bacillus subtilis. Journal of Bacteriology, 2015, 197, 3421-3432.	2.2	30
41	RepB protein of anAgrobacterium tumefaciensTi plasmid binds to two adjacent sites betweenrepAandrepBfor plasmid partitioning and autorepression. Molecular Microbiology, 2005, 58, 1114-1129.	2.5	29
42	Protein lysine acetylation plays a regulatory role in Bacillus subtilis multicellularity. PLoS ONE, 2018, 13, e0204687.	2.5	29
43	Bacillus subtilis utilizes the DNA damage response to manage multicellular development. Npj Biofilms and Microbiomes, 2017, 3, 8.	6.4	23
44	Bacillus subtilis Cell Differentiation, Biofilm Formation and Environmental Prevalence. Microorganisms, 2022, 10, 1108.	3.6	23
45	High throughput microencapsulation of Bacillus subtilis in semi-permeable biodegradable polymersomes for selenium remediation. Applied Microbiology and Biotechnology, 2017, 101, 455-464.	3.6	19
46	Novel Cell Wall Hydrolase CwlC from Bacillus thuringiensis Is Essential for Mother Cell Lysis. Applied and Environmental Microbiology, 2018, 84, .	3.1	19
47	The quorumâ€sensing protein TraR of Agrobacterium tumefaciens is susceptible to intrinsic and TraMâ€mediated proteolytic instability. Molecular Microbiology, 2012, 84, 807-815.	2.5	18
48	The phosphotransferase system gene ptsI in Bacillus cereus regulates expression of sodA2 and contributes to colonization of wheat roots. Research in Microbiology, 2017, 168, 524-535.	2.1	17
49	The ClpY-ClpQ protease regulates multicellular development in Bacillus subtilis. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	14
50	Bacterial chatter in chronic wound infections. Wound Repair and Regeneration, 2021, 29, 106-116.	3.0	13
51	Amino-Terminal Protein Fusions to the TraR Quorum-Sensing Transcription Factor Enhance Protein Stability and Autoinducer-Independent Activity. Journal of Bacteriology, 2005, 187, 1219-1226.	2.2	12
52	Characterization of the regulation of a plant polysaccharide utilization operon and its role in biofilm formation in Bacillus subtilis. PLoS ONE, 2017, 12, e0179761.	2.5	12
53	Negative Interplay between Biofilm Formation and Competence in the Environmental Strains of Bacillus subtilis. MSystems, 2020, 5, .	3.8	12
54	A strong promoter of a non-cry gene directs expression of the cry1Ac gene in Bacillus thuringiensis. Applied Microbiology and Biotechnology, 2018, 102, 3687-3699.	3.6	11

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55	The Chaperone GroESL Enhances the Accumulation of Soluble, Active TraR Protein, a Quorum-Sensing Transcription Factor fromAgrobacterium tumefaciens. Journal of Bacteriology, 2009, 191, 3706-3711.	2.2	10
56	RNA-Mediated cis Regulation in Acinetobacter baumannii Modulates Stress-Induced Phenotypic Variation. Journal of Bacteriology, 2017, 199, .	2.2	9
57	A Decrease in Serine Levels during Growth Transition Triggers Biofilm Formation in Bacillus subtilis. Journal of Bacteriology, 2019, 201, .	2.2	7
58	A bacterial volatile signal for biofilm formation. Microbial Cell, 2015, 2, 406-408.	3.2	6
59	SigB regulates stress resistance, glucose starvation, MnSOD production, biofilm formation, and root colonization in Bacillus cereus 905. Applied Microbiology and Biotechnology, 2021, 105, 5943-5957.	3.6	4