

Yunrong Chai

List of Publications by Year in descending order

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59
papers

5,170
citations

126708

33
h-index

128067

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 <i>Bacillus subtilis</i> way. <i>Nature Reviews Microbiology</i> , 2013, 11, 157-168.	13.6	834
2	<i>Bacillus subtilis</i> biofilm induction by plant polysaccharides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1621-30.	3.3	455
3	Biocontrol of tomato wilt disease by <i>Bacillus subtilis</i> isolates from natural environments depends on conserved genes mediating biofilm formation. <i>Environmental Microbiology</i> , 2013, 15, 848-864.	1.8	389
4	Bistability and biofilm formation in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2008, 67, 254-263.	1.2	297
5	A <i>Bacillus subtilis</i> sensor kinase involved in triggering biofilm formation on the roots of tomato plants. <i>Molecular Microbiology</i> , 2012, 85, 418-430.	1.2	211
6	Agrobacterium Bioassay Strain for Ultrasensitive Detection of N -Acylhomoserine Lactone-Type Quorum-Sensing Molecules: Detection of Autoinducers in <i>Mesorhizobium huakuii</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 6949-6953.	1.4	206
7	Wheat microbiome bacteria can reduce virulence of a plant pathogenic fungus by altering histone acetylation. <i>Nature Communications</i> , 2018, 9, 3429.	5.8	184
8	An epigenetic switch governing daughter cell separation in <i>Bacillus subtilis</i> . <i>Genes and Development</i> , 2010, 24, 754-765.	2.7	160
9	A Combination of Glycerol and Manganese Promotes Biofilm Formation in <i>Bacillus subtilis</i> via Histidine Kinase KinD Signaling. <i>Journal of Bacteriology</i> , 2013, 195, 2747-2754.	1.0	157
10	Galactose Metabolism Plays a Crucial Role in Biofilm Formation by <i>Bacillus subtilis</i> . <i>MBio</i> , 2012, 3, e00184-12.	1.8	140
11	A novel regulatory protein governing biofilm formation in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2008, 68, 1117-1127.	1.2	129
12	Evidence for Cyclic Di-GMP-Mediated Signaling in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5080-5090.	1.0	121
13	A Widely Conserved Gene Cluster Required for Lactate Utilization in <i>Bacillus subtilis</i> and Its Involvement in Biofilm Formation. <i>Journal of Bacteriology</i> , 2009, 191, 2423-2430.	1.0	120
14	Acetic Acid Acts as a Volatile Signal To Stimulate Bacterial Biofilm Formation. <i>MBio</i> , 2015, 6, e00392.	1.8	90
15	TrlR, a defective TraR-like protein of <i>Agrobacterium tumefaciens</i> , blocks TraR function in vitro by forming inactive TrlR:TraR dimers. <i>Molecular Microbiology</i> , 2001, 40, 414-421.	1.2	75
16	A serine sensor for multicellularity in a bacterium. <i>ELife</i> , 2013, 2, e01501.	2.8	73
17	Paralogous antirepressors acting on the master regulator for biofilm formation in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2009, 74, 876-887.	1.2	71
18	Reversal of an epigenetic switch governing cell chaining in <i>Bacillus subtilis</i> by protein instability. <i>Molecular Microbiology</i> , 2010, 78, 218-229.	1.2	71

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19	Alternative modes of biofilm formation by plant-associated <i>Bacillus cereus</i> . <i>MicrobiologyOpen</i> , 2015, 4, 452-464.	1.2	70
20	Evidence that metabolism and chromosome copy number control mutually exclusive cell fates in <i>Bacillus subtilis</i> . <i>EMBO Journal</i> , 2011, 30, 1402-1413.	3.5	69
21	Treating Polymicrobial Infections in Chronic Diabetic Wounds. <i>Clinical Microbiology Reviews</i> , 2019, 32, .	5.7	65
22	Sucrose triggers a novel signaling cascade promoting <i>Bacillus subtilis</i> rhizosphere colonization. <i>ISME Journal</i> , 2021, 15, 2723-2737.	4.4	63
23	The LuxS Based Quorum Sensing Governs Lactose Induced Biofilm Formation by <i>Bacillus subtilis</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 1517.	1.5	60
24	Genome-Wide Investigation of Biofilm Formation in <i>Bacillus cereus</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	60
25	A small antisense RNA downregulates expression of an essential replicase protein of an <i>Agrobacterium tumefaciens</i> Ti plasmid. <i>Molecular Microbiology</i> , 2005, 56, 1574-1585.	1.2	58
26	The role of rhizodeposits in shaping rhizomicrobiome. <i>Environmental Microbiology Reports</i> , 2020, 12, 160-172.	1.0	56
27	Site-directed mutagenesis of a LuxR-type quorum-sensing transcription factor: alteration of autoinducer specificity. <i>Molecular Microbiology</i> , 2003, 51, 765-776.	1.2	54
28	Direct binding of the quorum sensing regulator CepR of <i>Burkholderia cenocepacia</i> to two target promoters in vitro. <i>Molecular Microbiology</i> , 2005, 57, 452-467.	1.2	52
29	Reconstitution of the Biochemical Activities of the AttJ Repressor and the AttK, AttL, and AttM Catabolic Enzymes of <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2007, 189, 3674-3679.	1.0	52
30	Poly- β -Glutamic Acids Contribute to Biofilm Formation and Plant Root Colonization in Selected Environmental Isolates of <i>Bacillus subtilis</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 1811.	1.5	52
31	Heterogeneity in respiratory electron transfer and adaptive iron utilization in a bacterial biofilm. <i>Nature Communications</i> , 2019, 10, 3702.	5.8	52
32	Biofilm formation by <i>Bacillus subtilis</i> requires an endoribonuclease-containing multisubunit complex that controls mRNA levels for the matrix gene repressor SinR. <i>Molecular Microbiology</i> , 2016, 99, 425-437.	1.2	51
33	<i>Fusarium</i> fruiting body microbiome member <i>Pantoea agglomerans</i> inhibits fungal pathogenesis by targeting lipid rafts. <i>Nature Microbiology</i> , 2022, 7, 831-843.	5.9	44
34	<i>Bacillus amyloliquefaciens</i> L-S60 Reforms the Rhizosphere Bacterial Community and Improves Growth Conditions in Cucumber Plug Seedling. <i>Frontiers in Microbiology</i> , 2017, 8, 2620.	1.5	39
35	Post-translational regulation of autophagy is involved in intra-microbiome suppression of fungal pathogens. <i>Microbiome</i> , 2021, 9, 131.	4.9	36
36	Characterization of Subtilin L-Q11, a Novel Class I Bacteriocin Synthesized by <i>Bacillus subtilis</i> L-Q11 Isolated From Orchard Soil. <i>Frontiers in Microbiology</i> , 2019, 10, 484.	1.5	35

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37	The <i>spo0A-sinI-sinR</i> Regulatory Circuit Plays an Essential Role in Biofilm Formation, Nematicidal Activities, and Plant Protection in <i>Bacillus cereus</i> AR156. <i>Molecular Plant-Microbe Interactions</i> , 2017, 30, 603-619.	1.4	34
38	The comER Gene Plays an Important Role in Biofilm Formation and Sporulation in both <i>Bacillus subtilis</i> and <i>Bacillus cereus</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 1025.	1.5	33
39	The phosphotransferase system gene <i>ptsH</i> plays an important role in MnSOD production, biofilm formation, swarming motility, and root colonization in <i>Bacillus cereus</i> 905. <i>Research in Microbiology</i> , 2019, 170, 86-96.	1.0	32
40	The Bacterial Tyrosine Kinase Activator <i>TkmA</i> Contributes to Biofilm Formation Largely Independently of the Cognate Kinase <i>PtkA</i> in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2015, 197, 3421-3432.	1.0	30
41	RepB protein of an <i>Agrobacterium tumefaciens</i> Ti plasmid binds to two adjacent sites between <i>repA</i> and <i>repB</i> for plasmid partitioning and autorepression. <i>Molecular Microbiology</i> , 2005, 58, 1114-1129.	1.2	29
42	Protein lysine acetylation plays a regulatory role in <i>Bacillus subtilis</i> multicellularity. <i>PLoS ONE</i> , 2018, 13, e0204687.	1.1	29
43	<i>Bacillus subtilis</i> utilizes the DNA damage response to manage multicellular development. <i>Npj Biofilms and Microbiomes</i> , 2017, 3, 8.	2.9	23
44	<i>Bacillus subtilis</i> Cell Differentiation, Biofilm Formation and Environmental Prevalence. <i>Microorganisms</i> , 2022, 10, 1108.	1.6	23
45	High throughput microencapsulation of <i>Bacillus subtilis</i> in semi-permeable biodegradable polymersomes for selenium remediation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 455-464.	1.7	19
46	Novel Cell Wall Hydrolase <i>CwC</i> from <i>Bacillus thuringiensis</i> Is Essential for Mother Cell Lysis. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	19
47	The quorum-sensing protein <i>TraR</i> of <i>Agrobacterium tumefaciens</i> is susceptible to intrinsic and <i>TraM</i> -mediated proteolytic instability. <i>Molecular Microbiology</i> , 2012, 84, 807-815.	1.2	18
48	The phosphotransferase system gene <i>ptsI</i> in <i>Bacillus cereus</i> regulates expression of <i>sodA2</i> and contributes to colonization of wheat roots. <i>Research in Microbiology</i> , 2017, 168, 524-535.	1.0	17
49	The <i>ClpY-ClpQ</i> protease regulates multicellular development in <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> 157, 1074-1084. doi:10.1099/mic/0/000000.0	0.7	14
50	Bacterial chatter in chronic wound infections. <i>Wound Repair and Regeneration</i> , 2021, 29, 106-116.	1.5	13
51	Amino-Terminal Protein Fusions to the <i>TraR</i> Quorum-Sensing Transcription Factor Enhance Protein Stability and Autoinducer-Independent Activity. <i>Journal of Bacteriology</i> , 2005, 187, 1219-1226.	1.0	12
52	Characterization of the regulation of a plant polysaccharide utilization operon and its role in biofilm formation in <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2017, 12, e0179761.	1.1	12
53	Negative Interplay between Biofilm Formation and Competence in the Environmental Strains of <i>Bacillus subtilis</i> . <i>MSystems</i> , 2020, 5, .	1.7	12
54	A strong promoter of a non-cry gene directs expression of the <i>cry1Ac</i> gene in <i>Bacillus thuringiensis</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3687-3699.	1.7	11

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55	The Chaperone GroESL Enhances the Accumulation of Soluble, Active TraR Protein, a Quorum-Sensing Transcription Factor from <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3706-3711.	1.0	10
56	RNA-Mediated <i>cis</i> Regulation in <i>Acinetobacter baumannii</i> Modulates Stress-Induced Phenotypic Variation. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	9
57	A Decrease in Serine Levels during Growth Transition Triggers Biofilm Formation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	7
58	A bacterial volatile signal for biofilm formation. <i>Microbial Cell</i> , 2015, 2, 406-408.	1.4	6
59	SigB regulates stress resistance, glucose starvation, MnSOD production, biofilm formation, and root colonization in <i>Bacillus cereus</i> 905. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5943-5957.	1.7	4