

Praveen K Singh

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,359
citations

516710

16
h-index

477307

29
g-index

35
all docs

35
docs citations

35
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic biofilm architecture confers individual and collective mechanisms of viral protection. <i>Nature Microbiology</i> , 2018, 3, 26-31.	13.3	231
2	Emergence of three-dimensional order and structure in growing biofilms. <i>Nature Physics</i> , 2019, 15, 251-256.	16.7	211
3	Quantitative image analysis of microbial communities with BiofilmQ. <i>Nature Microbiology</i> , 2021, 6, 151-156.	13.3	181
4	Learning the space-time phase diagram of bacterial swarm expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1489-1494.	7.1	86
5	<i>Vibrio cholerae</i> Combines Individual and Collective Sensing to Trigger Biofilm Dispersal. <i>Current Biology</i> , 2017, 27, 3359-3366.e7.	3.9	83
6	Mobility of the Native <i>Bacillus subtilis</i> Conjugative Plasmid pLS20 Is Regulated by Intercellular Signaling. <i>PLoS Genetics</i> , 2013, 9, e1003892.	3.5	71
7	Structural dynamics of RbmA governs plasticity of <i>Vibrio cholerae</i> biofilms. <i>ELife</i> , 2017, 6, .	6.0	57
8	Discovery of a new family of relaxases in Firmicutes bacteria. <i>PLoS Genetics</i> , 2017, 13, e1006586.	3.5	49
9	Down-regulation of OsSAG12-1 results in enhanced senescence and pathogen-induced cell death in transgenic rice plants. <i>Journal of Biosciences</i> , 2013, 38, 583-592.	1.1	41
10	Flow-Induced Symmetry Breaking in Growing Bacterial Biofilms. <i>Physical Review Letters</i> , 2019, 123, 258101.	7.8	41
11	Inhibition of <i>Bacillus subtilis</i> natural competence by a native, conjugative plasmid-encoded <i>comK</i> repressor protein. <i>Environmental Microbiology</i> , 2012, 14, 2812-2825.	3.8	34
12	Diverse regulatory circuits for transfer of conjugative elements. <i>FEMS Microbiology Letters</i> , 2014, 358, 119-128.	1.8	31
13	A Complex Genetic Switch Involving Overlapping Divergent Promoters and DNA Looping Regulates Expression of Conjugation Genes of a Gram-positive Plasmid. <i>PLoS Genetics</i> , 2014, 10, e1004733.	3.5	30
14	RNA-mediated control of cell shape modulates antibiotic resistance in <i>Vibrio cholerae</i> . <i>Nature Communications</i> , 2020, 11, 6067.	12.8	22
15	Matrix-trapped viruses can prevent invasion of bacterial biofilms by colonizing cells. <i>ELife</i> , 2021, 10, .	6.0	22
16	Multicellular and unicellular responses of microbial biofilms to stress. <i>Biological Chemistry</i> , 2020, 401, 1365-1374.	2.5	22
17	Complete nucleotide sequence and determination of the replication region of the sporulation inhibiting plasmid p576 from <i>Bacillus pumilus</i> NRS576. <i>Research in Microbiology</i> , 2010, 161, 772-782.	2.1	19
18	Down-regulation of rice serpin gene OsSRP-LRS exaggerates stress-induced cell death. <i>Journal of Plant Biology</i> , 2015, 58, 327-332.	2.1	17

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19	Over-expression of <i>Arabidopsis thaliana</i> SFD1/GLY1, the gene encoding plastid localized glycerol-3-phosphate dehydrogenase, increases plastidic lipid content in transgenic rice plants. <i>Journal of Plant Research</i> , 2016, 129, 285-293.	2.4	17
20	Single-objective high-resolution confocal light sheet fluorescence microscopy for standard biological sample geometries. <i>Biomedical Optics Express</i> , 2021, 12, 3372.	2.9	13
21	Surface Exclusion Revisited: Function Related to Differential Expression of the Surface Exclusion System of <i>Bacillus subtilis</i> Plasmid pLS20. <i>Frontiers in Microbiology</i> , 2019, 10, 1502.	3.5	11
22	Draft Genome Sequences of Sporulation-Impaired <i>Bacillus pumilus</i> Strain NRS576 and Its Native Plasmid p576. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	11
23	A tyrosine phosphoregulatory system controls exopolysaccharide biosynthesis and biofilm formation in <i>Vibrio cholerae</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008745.	4.7	10
24	Crucial Role of the Chaperonin GroES/EL for Heterologous Production of the Soluble Methane Monooxygenase from <i>Methylobacterium methanica</i> MC09. <i>ChemBioChem</i> , 2022, 23, .	2.6	5
25	Reversible regulation of conjugation of <i>Bacillus subtilis</i> plasmid pLS20 by the quorum sensing peptide responsive anti-repressor RappLS20. <i>Nucleic Acids Research</i> , 2020, 48, 10785-10801.	14.5	4
26	Inactivation of the dimeric RappLS20 anti-repressor of the conjugation operon is mediated by peptide-induced tetramerization. <i>Nucleic Acids Research</i> , 2020, 48, 8113-8127.	14.5	4
27	Catalytic and Spectroscopic Properties of the Halotolerant Soluble Methane Monooxygenase Reductase from <i>Methylobacterium methanica</i> MC09. <i>ChemBioChem</i> , 2022, 23, .	2.6	3
28	<i>Vibrio cholerae</i> biofilm scaffolding protein RbmA shows an intrinsic, phosphate-dependent autoproteolysis activity. <i>IUBMB Life</i> , 2021, 73, 418-431.	3.4	2