

# Burkhard A Hense

## List of Publications by Year in descending order

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16  
papers

1,107  
citations

759233

12  
h-index

940533

16  
g-index

16  
all docs

16  
docs citations

16  
times ranked

1307  
citing authors

#	ARTICLE	IF	CITATIONS
1	Does efficiency sensing unify diffusion and quorum sensing?. Nature Reviews Microbiology, 2007, 5, 230-239.	28.6	439
2	Core Principles of Bacterial Autoinducer Systems. Microbiology and Molecular Biology Reviews, 2015, 79, 153-169.	6.6	157
3	Bacterial quorum sensing compounds are important modulators of microbe-plant interactions. Frontiers in Plant Science, 2014, 5, 131.	3.6	153
4	Dynamic regulation of <i>N</i> -acyl-homoserine lactone production and degradation in <i>Pseudomonas putida</i> . FEMS Microbiology Ecology, 2010, 72, 22-34.	2.7	81
5	A Mathematical Model of Quorum Sensing Induced Biofilm Detachment. PLoS ONE, 2015, 10, e0132385.	2.5	69
6	Dynamics of AHL mediated quorum sensing under flow and non-flow conditions. Physical Biology, 2012, 9, 026007.	1.8	36
7	Why Quorum Sensing Controls Private Goods. Frontiers in Microbiology, 2017, 8, 885.	3.5	33
8	Spatial Heterogeneity of Autoinducer Regulation Systems. Sensors, 2012, 12, 4156-4171.	3.8	32
9	Selection of Functional Quorum Sensing Systems by Lysogenic Bacteriophages in <i>Pseudomonas aeruginosa</i> . Frontiers in Microbiology, 2017, 8, 1669.	3.5	30
10	A mathematical model to investigate quorum sensing regulation and its heterogeneity in <i>Pseudomonas syringae</i> on leaves. Ecological Complexity, 2015, 21, 128-141.	2.9	19
11	Evidence of Autoinducer-Dependent and -Independent Heterogeneous Gene Expression in <i>Sinorhizobium fredii</i> NGR234. Applied and Environmental Microbiology, 2014, 80, 5572-5582.	3.1	18
12	Simulation-Based Exploration of Quorum Sensing Triggered Resistance of Biofilms to Antibiotics. Bulletin of Mathematical Biology, 2018, 80, 1736-1775.	1.9	16
13	Transcription, intercellular variability and correlated random walk. Mathematical Biosciences, 2008, 216, 30-39.	1.9	10
14	Evolutionary Stabilization of Cooperative Toxin Production through a Bacterium-Plasmid-Phage Interplay. MBio, 2020, 11, .	4.1	7
15	Modelling and analysis of a gene-regulatory feed-forward loop with basal expression of the second regulator. Journal of Theoretical Biology, 2014, 363, 290-299.	1.7	5
16	Differential Equations Models to Study Quorum Sensing. Methods in Molecular Biology, 2018, 1673, 253-271.	0.9	2