

# Raimo Hartmann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4753116/publications.pdf>

Version: 2024-02-01

18  
papers

1,404  
citations

567281

15  
h-index

794594

19  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1505  
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	Division of Labor during Biofilm Matrix Production. <i>Current Biology</i> , 2018, 28, 1903-1913.e5.	3.9	203
4	Quantitative image analysis of microbial communities with BiofilmQ. <i>Nature Microbiology</i> , 2021, 6, 151-156.	13.3	181
5	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
6	<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
7	Breakdown of <i>Vibrio cholerae</i> biofilm architecture induced by antibiotics disrupts community barrier function. <i>Nature Microbiology</i> , 2019, 4, 2136-2145.	13.3	64
8	Structural dynamics of RbmA governs plasticity of <i>Vibrio cholerae</i> biofilms. <i>ELife</i> , 2017, 6, .	6.0	57
9	BacStalk: A comprehensive and interactive image analysis software tool for bacterial cell biology. <i>Molecular Microbiology</i> , 2020, 114, 140-150.	2.5	53
10	Flow-Induced Symmetry Breaking in Growing Bacterial Biofilms. <i>Physical Review Letters</i> , 2019, 123, 258101.	7.8	41
11	Spatial alanine metabolism determines local growth dynamics of <i>Escherichia coli</i> colonies. <i>ELife</i> , 2021, 10, .	6.0	36
12	Cell adhesion and fluid flow jointly initiate genotype spatial distribution in biofilms. <i>PLoS Computational Biology</i> , 2018, 14, e1006094.	3.2	31
13	Kin discrimination in social yeast is mediated by cell surface receptors of the Flo11 adhesin family. <i>ELife</i> , 2020, 9, .	6.0	30
14	Privatization of Biofilm Matrix in Structurally Heterogeneous Biofilms. <i>MSystems</i> , 2020, 5, .	3.8	27
15	NosP Signaling Modulates the NO/H-NOX-Mediated Multicomponent c-Di-GMP Network and Biofilm Formation in <i>Shewanella oneidensis</i> . <i>Biochemistry</i> , 2019, 58, 4827-4841.	2.5	21
16	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
17	An Emerging Grip on the Growth of Grounded Bacteria. <i>ACS Nano</i> , 2016, 10, 9109-9110.	14.6	3
18	<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