

Claus Sternberg

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

6,336
citations

28
h-index

55
g-index

55
ext. papers

7,137
ext. citations

5.2
avg, IF

5.15
L-index

#	Paper	IF	Citations
54	Quantification of biofilm structures by the novel computer program COMSTAT. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 10), 2395-2407	2.9	1560
53	New unstable variants of green fluorescent protein for studies of transient gene expression in bacteria. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 2240-6	4.8	738
52	Critical review on biofilm methods. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 313-351	7.8	454
51	Mucoid conversion of <i>Pseudomonas aeruginosa</i> by hydrogen peroxide: a mechanism for virulence activation in the cystic fibrosis lung. <i>Microbiology (United Kingdom)</i> , 1999 , 145 (Pt 6), 1349-1357	2.9	376
50	Involvement of N-acyl-L-homoserine lactone autoinducers in controlling the multicellular behaviour of <i>Serratia liquefaciens</i> . <i>Molecular Microbiology</i> , 1996 , 20, 127-36	4.1	297
49	In situ gene expression in mixed-culture biofilms: evidence of metabolic interactions between community members. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 721-32	4.8	269
48	Establishment of new genetic traits in a microbial biofilm community. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 2247-55	4.8	255
47	Distribution of bacterial growth activity in flow-chamber biofilms. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4108-17	4.8	238
46	Mini-Tn7 transposons for site-specific tagging of bacteria with fluorescent proteins. <i>Environmental Microbiology</i> , 2004 , 6, 726-32	5.2	236
45	Molecular tools for study of biofilm physiology. <i>Methods in Enzymology</i> , 1999 , 310, 20-42	1.7	222
44	Characterization of starvation-induced dispersion in <i>Pseudomonas putida</i> biofilms. <i>Environmental Microbiology</i> , 2005 , 7, 894-906	5.2	202
43	In situ growth rates and biofilm development of <i>Pseudomonas aeruginosa</i> populations in chronic lung infections. <i>Journal of Bacteriology</i> , 2008 , 190, 2767-76	3.5	157
42	Bacterial plasmid conjugation on semi-solid surfaces monitored with the green fluorescent protein (GFP) from <i>Aequorea victoria</i> as a marker. <i>Gene</i> , 1996 , 173, 59-65	3.8	96
41	Insight into the microbial multicellular lifestyle via flow-cell technology and confocal microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009 , 75, 90-103	4.6	92
40	Modern microscopy in biofilm research: confocal microscopy and other approaches. <i>Current Opinion in Biotechnology</i> , 1999 , 10, 263-8	11.4	91
39	Microfluidic dissolved oxygen gradient generator biochip as a useful tool in bacterial biofilm studies. <i>Lab on A Chip</i> , 2010 , 10, 2162-9	7.2	88
38	An in vitro model of bacterial infections in wounds and other soft tissues. <i>Apmis</i> , 2010 , 118, 156-64	3.4	83

37	Analysis of the multimer resolution system encoded by the parCBA operon of broad-host-range plasmid RP4. <i>Molecular Microbiology</i> , 1994 , 12, 131-41	4.1	80
36	Use of green fluorescent protein as a marker for ecological studies of activated sludge communities. <i>FEMS Microbiology Letters</i> , 2006 , 149, 77-83	2.9	72
35	Differential bacterial capture and transport preferences facilitate co-growth on dietary xylan in the human gut. <i>Nature Microbiology</i> , 2018 , 3, 570-580	26.6	70
34	Biofilm induced tolerance towards antimicrobial peptides. <i>PLoS ONE</i> , 2008 , 3, e1891	3.7	58
33	Growing and analyzing biofilms in flow cells. <i>Current Protocols in Microbiology</i> , 2006 , Chapter 1, Unit 1B.2.7.1	2.1	55
32	Growing and analyzing biofilms in flow chambers. <i>Current Protocols in Microbiology</i> , 2011 , Chapter 1, Unit 1B.2	7.1	54
31	Immunomodulating potential of supplementation with probiotics: a dose-response study in healthy young adults. <i>FEMS Immunology and Medical Microbiology</i> , 2006 , 47, 380-90		53
30	An individual-based approach to explain plasmid invasion in bacterial populations. <i>FEMS Microbiology Ecology</i> , 2011 , 75, 17-27	4.3	46
29	Secreted single-stranded DNA is involved in the initial phase of biofilm formation by <i>Neisseria gonorrhoeae</i> . <i>Environmental Microbiology</i> , 2014 , 16, 1040-52	5.2	36
28	Methods for studying biofilm formation: flow cells and confocal laser scanning microscopy. <i>Methods in Molecular Biology</i> , 2014 , 1149, 615-29	1.4	32
27	Utilizing nanoparticles for improving anti-biofilm effects of azithromycin: A head-to-head comparison of modified hyaluronic acid nanogels and coated poly (lactic-co-glycolic acid) nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 595-606	9.3	28
26	Ultrasmall TPGS-PLGA Hybrid Nanoparticles for Site-Specific Delivery of Antibiotics into Biofilms in Lungs. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 380-389	9.5	26
25	Evaluation of enoyl-acyl carrier protein reductase inhibitors as <i>Pseudomonas aeruginosa</i> quorum-quenching reagents. <i>Molecules</i> , 2010 , 15, 780-92	4.8	25
24	Physiological responses of KT2442 to phosphate starvation. <i>Microbiology (United Kingdom)</i> , 1996 , 142, 155-163	2.9	25
23	Biofilm as a production platform for heterologous production of rhamnolipids by the non-pathogenic strain <i>Pseudomonas putida</i> KT2440. <i>Microbial Cell Factories</i> , 2016 , 15, 181	6.4	24
22	<i>Pseudomonas aeruginosa</i> and <i>Saccharomyces cerevisiae</i> biofilm in flow cells. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	24
21	Modular microfluidic system as a model of cystic fibrosis airways. <i>Biomicrofluidics</i> , 2012 , 6, 34109	3.2	21
20	Synthesis of carbon quantum dot-poly lactic-co-glycolic acid hybrid nanoparticles for chemo-photothermal therapy against bacterial biofilms. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 66-74	9.3	20

19	Detection of bioluminescence from individual bacterial cells: a comparison of two different low-light imaging systems. <i>Luminescence</i> , 1997 , 12, 7-13		19
18	Monitoring bacterial growth activity in biofilms from laboratory flow chambers, plant rhizosphere, and animal intestine. <i>Methods in Enzymology</i> , 2001 , 337, 21-42	1.7	16
17	Assessment of flhDC mRNA levels in <i>Serratia liquefaciens</i> swarm cells. <i>Journal of Bacteriology</i> , 2000 , 182, 2680-6	3.5	13
16	Methods for dynamic investigations of surface-attached in vitro bacterial and fungal biofilms. <i>Methods in Molecular Biology</i> , 2014 , 1147, 3-22	1.4	12
15	Stimulation of <i>Escherichia coli</i> F-18Col- type-1 fimbriae synthesis by leuX. <i>FEMS Microbiology Letters</i> , 1994 , 122, 281-7	2.9	11
14	Inactivation of gltB abolishes expression of the assimilatory nitrate reductase gene (nasB) in <i>Pseudomonas putida</i> KT2442. <i>Journal of Bacteriology</i> , 2000 , 182, 3368-76	3.5	10
13	Quantification of specific <i>E. coli</i> in gut mucosa from Crohn's disease patients. <i>Journal of Microbiological Methods</i> , 2011 , 86, 111-4	2.8	7
12	Advanced microscopy of microbial cells. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2011 , 124, 21-54	1.7	7
11	Genetic labelling and application of the isoproturon-mineralizing <i>Sphingomonas</i> sp. strain SRS2 in soil and rhizosphere. <i>Letters in Applied Microbiology</i> , 2006 , 43, 280-6	2.9	7
10	In situ detection of gene transfer in a model biofilm engaged in degradation of benzyl alcohol. <i>Apmis</i> , 1998 , 84, 25-8	3.4	6
9	Microbial biofilms in biorefinery - Towards a sustainable production of low-value bulk chemicals and fuels. <i>Biotechnology Advances</i> , 2021 , 50, 107766	17.8	5
8	Microbial communities: aggregates of individuals or co-ordinated systems 2000 , 199-214		4
7	Bacterial Cell Cultures in a Lab-on-a-Disc: A Simple and Versatile Tool for Quantification of Antibiotic Treatment Efficacy. <i>Analytical Chemistry</i> , 2020 , 92, 13871-13879	7.8	4
6	Application of RNA-seq and Bioimaging Methods to Study Microbe-Microbe Interactions and Their Effects on Biofilm Formation and Gene Expression. <i>Methods in Molecular Biology</i> , 2018 , 1734, 131-158	1.4	3
5	Confocal Microscopy of Biofilms [Spatiotemporal Approaches 2006 , 870-888		3
4	Crystal ball: leading scientists in the field of environmental microbiology consider the technical and conceptual developments that they believe will drive innovative research during the first years of the new millennium. <i>Environmental Microbiology</i> , 2000 , 2, 3-10	5.2	2
3	Utilization and control of ecological interactions in polymicrobial infections and community-based microbial cell factories. <i>F1000Research</i> , 2016 , 5,	3.6	2
2	Loss of AA13 LPMOs impairs degradation of resistant starch and reduces the growth of. <i>Biotechnology for Biofuels</i> , 2020 , 13, 135	7.8	2

- 1 In Situ Monitoring of Bacterial Presence and Activity 49-58