

Bastiaan P Krom

List of Publications by Year in descending order

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93
papers

5,692
citations

87888

38
h-index

82547

72
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95
all docs

95
docs citations

95
times ranked

7453
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial–fungal interactions: ecology, mechanisms and challenges. <i>FEMS Microbiology Reviews</i> , 2018, 42, 335-352.	8.6	468
2	Diazirine based photoaffinity labeling. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 554-570.	3.0	322
3	Role of Extracellular DNA in Initial Bacterial Adhesion and Surface Aggregation. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3405-3408.	3.1	265
4	<i>Streptococcus mutans</i> , <i>Candida albicans</i> , and the Human Mouth: A Sticky Situation. <i>PLoS Pathogens</i> , 2013, 9, e1003616.	4.7	236
5	Farnesol-Induced Apoptosis in <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 2392-2401.	3.2	210
6	Systemic <i>Staphylococcus aureus</i> infection mediated by <i>Candida albicans</i> hyphal invasion of mucosal tissue. <i>Microbiology (United Kingdom)</i> , 2015, 161, 168-181.	1.8	209
7	Acquiring and maintaining a normal oral microbiome: current perspective. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 85.	3.9	191
8	<i>Staphylococcus aureus</i> adherence to <i>Candida albicans</i> hyphae is mediated by the hyphal adhesin Als3p. <i>Microbiology (United Kingdom)</i> , 2012, 158, 2975-2986.	1.8	188
9	<i>Streptococcus mutans</i> Competence-Stimulating Peptide Inhibits <i>Candida albicans</i> Hypha Formation. <i>Eukaryotic Cell</i> , 2009, 8, 1658-1664.	3.4	174
10	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. <i>Advanced Functional Materials</i> , 2013, 23, 2843-2849.	14.9	165
11	Macromolecular Inhibition of Quorum Sensing: Enzymes, Antibodies, and Beyond. <i>Chemical Reviews</i> , 2011, 111, 195-208.	47.7	162
12	The Two-Component Signal Transduction Protein Chk1p Regulates Quorum Sensing in <i>Candida albicans</i> . <i>Eukaryotic Cell</i> , 2004, 3, 1062-1065.	3.4	134
13	Historical and contemporary hypotheses on the development of oral diseases: are we there yet?. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 92.	3.9	133
14	On the ecosystemic network of saliva in healthy young adults. <i>ISME Journal</i> , 2017, 11, 1218-1231.	9.8	132
15	Effect of Cinnamon Oil on <i>icaA</i> Expression and Biofilm Formation by <i>Staphylococcus epidermidis</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 6850-6855.	3.1	126
16	<i>Candida</i> and Other Fungal Species. <i>Journal of Dental Research</i> , 2014, 93, 445-451.	5.2	111
17	Influence of Culture Heterogeneity in Cell Surface Charge on Adhesion and Biofilm Formation by <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2006, 188, 2421-2426.	2.2	90
18	Current State of Craniofacial Prosthetic Rehabilitation. <i>International Journal of Prosthodontics</i> , 2013, 26, 57-67.	1.7	90

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19	Al-2 of <i>Aggregatibacter actinomycetemcomitans</i> inhibits <i>Candida albicans</i> biofilm formation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 94.	3.9	90
20	Role of eDNA on the Adhesion Forces between <i>Streptococcus mutans</i> and Substratum Surfaces: Influence of Ionic Strength and Substratum Hydrophobicity. <i>Langmuir</i> , 2011, 27, 10113-10118.	3.5	80
21	DNA-mediated bacterial aggregation is dictated by acid-base interactions. <i>Soft Matter</i> , 2011, 7, 2927.	2.7	77
22	Interspecies Interactions between <i>Clostridium difficile</i> and <i>Candida albicans</i> . <i>MSphere</i> , 2016, 1, .	2.9	74
23	Complementary Metal Ion Specificity of the Metal-Citrate Transporters CitM and CitH of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 6374-6381.	2.2	70
24	Optimized candidal biofilm microtiter assay. <i>Journal of Microbiological Methods</i> , 2007, 68, 421-423.	1.6	69
25	Hyphal content determines the compression strength of <i>Candida albicans</i> biofilms. <i>Microbiology (United Kingdom)</i> , 2009, 155, 1997-2003.	1.8	63
26	Farnesol-Induced Apoptosis in <i>Candida albicans</i> Is Mediated by Cdr1-p Extrusion and Depletion of Intracellular Glutathione. <i>PLoS ONE</i> , 2011, 6, e28830.	2.5	63
27	Multi-species oral biofilm promotes reconstructed human gingiva epithelial barrier function. <i>Scientific Reports</i> , 2018, 8, 16061.	3.3	61
28	Review: modulation of the oral microbiome by the host to promote ecological balance. <i>Odontology / the Society of the Nippon Dental University</i> , 2019, 107, 437-448.	1.9	59
29	<i>Candida albicans</i> alters the bacterial microbiome of early <i>in vitro</i> oral biofilms. <i>Journal of Oral Microbiology</i> , 2017, 9, 1270613.	2.7	57
30	The mycobiome of root canal infections is correlated to the bacteriome. <i>Clinical Oral Investigations</i> , 2017, 21, 1871-1881.	3.0	55
31	Antimicrobial effects of an NO-releasing poly(ethylene vinylacetate) coating on soft-tissue implants <i>in vitro</i> and in a murine model. <i>Acta Biomaterialia</i> , 2009, 5, 1905-1910.	8.3	52
32	<i>Candida albicans</i> in oral biofilms could prevent caries. <i>Pathogens and Disease</i> , 2016, 74, ftw039.	2.0	52
33	The Bigger Picture: Why Oral Mucosa Heals Better Than Skin. <i>Biomolecules</i> , 2021, 11, 1165.	4.0	49
34	Evaluation of adhesion forces of <i>Staphylococcus aureus</i> along the length of <i>Candida albicans</i> hyphae. <i>BMC Microbiology</i> , 2012, 12, 281.	3.3	46
35	Survival of Adhering Staphylococci during Exposure to a Quaternary Ammonium Compound Evaluated by Using Atomic Force Microscopy Imaging. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5010-5017.	3.2	45
36	Force microscopic and thermodynamic analysis of the adhesion between <i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> . <i>Soft Matter</i> , 2012, 8, 6454.	2.7	44

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37	<i>Candida albicans</i> in Multispecies Oral Communities; A Keystone Commensal?. <i>Advances in Experimental Medicine and Biology</i> , 2016, 931, 13-20.	1.6	42
38	Carnitine-Dependent Transport of Acetyl Coenzyme A in <i>Candida albicans</i> Is Essential for Growth on Nonfermentable Carbon Sources and Contributes to Biofilm Formation. <i>Eukaryotic Cell</i> , 2008, 7, 610-618.	3.4	40
39	Microbial biofilms on facial prostheses. <i>Biofouling</i> , 2012, 28, 583-591.	2.2	39
40	Anti-bacterial efficacy via drug-delivery system from layer-by-layer coating for percutaneous dental implant components. <i>Applied Surface Science</i> , 2019, 488, 194-204.	6.1	38
41	Synthesis and validation of a probe to identify quorum sensing receptors. <i>Chemical Communications</i> , 2009, , 7378.	4.1	37
42	<i>In vitro</i> phenotypic differentiation towards commensal and pathogenic oral biofilms. <i>Biofouling</i> , 2015, 31, 503-510.	2.2	37
43	Deletion of the NOT4 gene impairs hyphal development and pathogenicity in <i>Candida albicans</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 229-240.	1.8	36
44	Saliva-Derived Commensal and Pathogenic Biofilms in a Human Gingiva Model. <i>Journal of Dental Research</i> , 2018, 97, 201-208.	5.2	36
45	LuxS signaling in <i>Porphyromonas gingivalis</i> -host interactions. <i>Anaerobe</i> , 2015, 35, 3-9.	2.1	35
46	Low-Load Compression Testing: a Novel Way of Measuring Biofilm Thickness. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7023-7028.	3.1	34
47	Metabolic Interactions between Bacteria and Fungi in Commensal Oral Biofilms. <i>Journal of Fungi (Basel, Switzerland)</i> , 2017, 3, 40.	3.5	33
48	<i>Enterococcus faecalis</i> strains show culture heterogeneity in cell surface charge. <i>Microbiology (United Kingdom)</i> , 2006, 152, 807-814.	1.8	32
49	Fungal mitochondrial oxygen consumption induces the growth of strict anaerobic bacteria. <i>Fungal Genetics and Biology</i> , 2017, 109, 1-6.	2.1	32
50	Commensal and Pathogenic Biofilms Alter Toll-Like Receptor Signaling in Reconstructed Human Gingiva. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 282.	3.9	31
51	Catabolite Repression and Induction of the Mg ²⁺ -Citrate Transporter CitM of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 6099-6105.	2.2	30
52	<i>IcaA</i> expression and gentamicin susceptibility of <i>Staphylococcus epidermidis</i> biofilm on orthopedic implant biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 365-371.	4.0	29
53	Analysis of the contribution of sedimentation to bacterial mass transport in a parallel plate flow chamber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 427-432.	5.0	28
54	Impact of the Mg ²⁺ -citrate transporter CitM on heavy metal toxicity in <i>Bacillus subtilis</i> . <i>Archives of Microbiology</i> , 2002, 178, 370-375.	2.2	26

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55	Fine-tuning Covalent Inhibition of Bacterial Quorum Sensing. <i>ChemBioChem</i> , 2016, 17, 825-835.	2.6	26
56	Short-Chain <i>N</i> -Acylhomoserine Lactone Quorum-Sensing Molecules Promote Periodontal Pathogens in <i>In Vitro</i> Oral Biofilms. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	26
57	Surface Thermodynamic and Adhesion Force Evaluation of the Role of Chitin-Binding Protein in the Physical Interaction between <i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> . <i>Langmuir</i> , 2013, 29, 4823-4829.	3.5	25
58	Adhesion of <i>Staphylococcus aureus</i> to <i>Candida albicans</i> During Co-Infection Promotes Bacterial Dissemination Through the Host Immune Response. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 624839.	3.9	25
59	Microbial Spy Games and Host Response: Roles of a <i>Pseudomonas aeruginosa</i> Small Molecule in Communication with Other Species. <i>PLoS Pathogens</i> , 2011, 7, e1002312.	4.7	24
60	Polymicrobial Aggregates in Human Saliva Build the Oral Biofilm. <i>MBio</i> , 2022, 13, e0013122.	4.1	23
61	The Host Immune System Facilitates Disseminated <i>Staphylococcus aureus</i> Disease Due to Phagocytic Attraction to <i>Candida albicans</i> during Coinfection: a Case of Bait and Switch. <i>Infection and Immunity</i> , 2019, 87, .	2.2	22
62	Conserved Residues R420 and Q428 in a Cytoplasmic Loop of the Citrate/Malate Transporter CimH of <i>Bacillus subtilis</i> Are Accessible from the External Face of the Membrane. <i>Biochemistry</i> , 2003, 42, 467-474.	2.5	21
63	Surface charge influences enterococcal prevalence in mixed-species biofilms. <i>Journal of Applied Microbiology</i> , 2007, 102, 1254-1260.	3.1	19
64	A novel compound to maintain a healthy oral plaque ecology <i>in vitro</i> . <i>Journal of Oral Microbiology</i> , 2016, 8, 32513.	2.7	19
65	Conditions for Optimal <i>Candida</i> Biofilm Development in Microtiter Plates. <i>Methods in Molecular Biology</i> , 2009, 499, 55-62.	0.9	19
66	Impact of nutritional stress on drug susceptibility and biofilm structures of <i>Burkholderia pseudomallei</i> and <i>Burkholderia thailandensis</i> grown in static and microfluidic systems. <i>PLoS ONE</i> , 2018, 13, e0194946.	2.5	19
67	Red and Green Fluorescence from Oral Biofilms. <i>PLoS ONE</i> , 2016, 11, e0168428.	2.5	18
68	<i>Bacillus subtilis</i> YxkJ Is a Secondary Transporter of the 2-Hydroxycarboxylate Transporter Family That Transports <i>l</i> -Malate and Citrate. <i>Journal of Bacteriology</i> , 2001, 183, 5862-5869.	2.2	17
69	<i>recA</i> mediated spontaneous deletions of the <i>icaADBC</i> operon of clinical <i>Staphylococcus epidermidis</i> isolates: a new mechanism of phenotypic variations. <i>Antonie Van Leeuwenhoek</i> , 2008, 94, 317-328.	1.7	17
70	<i>In Vitro</i> Models for <i>Candida</i> Biofilm Development. <i>Methods in Molecular Biology</i> , 2016, 1356, 95-105.	0.9	17
71	Diffusion of antimicrobials in multispecies biofilms evaluated in a new biofilm model. <i>International Endodontic Journal</i> , 2017, 50, 367-376.	5.0	16
72	The novel endolysin XZ.700 effectively treats MRSA biofilms in two biofilm models without showing toxicity on human bone cells <i>in vitro</i> . <i>Biofouling</i> , 2021, 37, 184-193.	2.2	15

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73	Exchange of adsorbed serum proteins during adhesion of <i>Staphylococcus aureus</i> to an abiotic surface and <i>Candida albicans</i> hyphae—An AFM study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 45-50.	5.0	14
74	Uses and limitations of green fluorescent protein as a viability marker in <i>Enterococcus faecalis</i> : An observational investigation. <i>Journal of Microbiological Methods</i> , 2015, 115, 57-63.	1.6	14
75	Effect of erythritol on microbial ecology of <i>in vitro</i> gingivitis biofilms. <i>Journal of Oral Microbiology</i> , 2017, 9, 1337477.	2.7	14
76	Sex Steroid Hormones as a Balancing Factor in Oral Host Microbiome Interactions. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 714229.	3.9	14
77	Link between Culture Zeta Potential Homogeneity and Ebp in <i>Enterococcus faecalis</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 2282-2288.	3.1	13
78	<i>Candida albicans</i> enhances initial biofilm growth of <i>Cutibacterium acnes</i> under aerobic conditions. <i>Biofouling</i> , 2019, 35, 350-360.	2.2	13
79	Transporters involved in uptake of di- and tricarboxylates in <i>Bacillus subtilis</i> . <i>Antonie Van Leeuwenhoek</i> , 2003, 84, 69-80.	1.7	12
80	Immunoediting role for major vault protein in apoptotic signaling induced by bacterial <i>N</i> -acyl homoserine lactones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
81	<i>Staphylococcus</i> – <i>Candida</i> Interaction Models: Antibiotic Resistance Testing and Host Interactions. <i>Methods in Molecular Biology</i> , 2016, 1356, 153-161.	0.9	11
82	Cholate-Stimulated Biofilm Formation by <i>Lactococcus lactis</i> Cells. <i>Applied and Environmental Microbiology</i> , 2011, 77, 2602-2610.	3.1	10
83	Microbial biofilms and wound healing: an ecological hypothesis. <i>Phlebology</i> , 2014, 29, 168-173.	1.2	10
84	Increased adhesion of <i>Enterococcus faecalis</i> strains with bimodal electrophoretic mobility distributions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 302-306.	5.0	9
85	Farnesol and <i>Candida albicans</i> : Quorum Sensing or Not Quorum Sensing?. <i>Israel Journal of Chemistry</i> , 2016, 56, 295-301.	2.3	9
86	Phytosphingosine Prevents the Formation of Young Salivary Biofilms <i>in vitro</i> . <i>Caries Research</i> , 2018, 52, 7-13.	2.0	9
87	Ica-status of clinical <i>Staphylococcus epidermidis</i> strains affects adhesion and aggregation: a thermodynamic analysis. <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 1467-1474.	1.7	8
88	Rapid Screening Method for Compounds That Affect the Growth and Germination of <i>Candida albicans</i> , Using a Real-Time PCR Thermocycler. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8193-8196.	3.1	6
89	DNase-mediated eDNA removal enhances D-LL-31 activity against biofilms of bacteria isolated from chronic rhinosinusitis patients. <i>Biofouling</i> , 2020, 36, 1117-1128.	2.2	6
90	<i>Candida</i> Biofilm Analysis in the Artificial Throat Using FISH. <i>Methods in Molecular Biology</i> , 2009, 499, 45-54.	0.9	5

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91	The Role of the Oral Immune System in Oropharyngeal Candidiasis-Facilitated Invasion and Dissemination of Staphylococcus aureus. <i>Frontiers in Oral Health</i> , 2022, 3, 851786.	3.0	4
92	Of fungi and men: role of fungi in pancreatic cancer carcinogenesis. <i>Annals of Translational Medicine</i> , 2020, 8, 1257-1257.	1.7	3
93	Niacin Limitation Promotes <i>Candida glabrata</i> Adhesion to Abiotic Surfaces. <i>Pathogens</i> , 2022, 11, 387.	2.8	1