

Sebastian A J Zaat

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,518
citations

201674

27
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

5834
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomaterial-Associated Infection: Locating the Finish Line in the Race for the Surface. <i>Science Translational Medicine</i> , 2012, 4, 153rv10.	12.4	575
2	The antimicrobial peptide SAAP-148 combats drug-resistant bacteria and biofilms. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	358
3	How honey kills bacteria. <i>FASEB Journal</i> , 2010, 24, 2576-2582.	0.5	353
4	Cross-linking and characterisation of gelatin matrices for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000, 11, 225-243.	3.5	270
5	Selective laser melting porous metallic implants with immobilized silver nanoparticles kill and prevent biofilm formation by methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2017, 140, 1-15.	11.4	170
6	Antimicrobial Peptides in Biomedical Device Manufacturing. <i>Frontiers in Chemistry</i> , 2017, 5, 63.	3.6	148
7	Antimicrobial Activity of Cationic Antimicrobial Peptides against Gram-Positives: Current Progress Made in Understanding the Mode of Action and the Response of Bacteria. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 111.	3.7	139
8	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. <i>EFORT Open Reviews</i> , 2016, 1, 89-99.	4.1	131
9	Antibacterial photodynamic therapy: overview of a promising approach to fight antibiotic-resistant bacterial infections. <i>Journal of Clinical and Translational Research</i> , 2015, 1, 140-167.	0.3	118
10	In vitro methods for the evaluation of antimicrobial surface designs. <i>Acta Biomaterialia</i> , 2018, 70, 12-24.	8.3	97
11	Methodologies for in vitro and in vivo evaluation of efficacy of antifungal and antibiofilm agents and surface coatings against fungal biofilms. <i>Microbial Cell</i> , 2018, 5, 300-326.	3.2	81
12	<i>Staphylococcus epidermidis</i> originating from titanium implants infects surrounding tissue and immune cells. <i>Acta Biomaterialia</i> , 2014, 10, 5202-5212.	8.3	66
13	Evaluating Efficacy of Antimicrobial and Antifouling Materials for Urinary Tract Medical Devices: Challenges and Recommendations. <i>Macromolecular Bioscience</i> , 2019, 19, e1800384.	4.1	66
14	Convenient Preparation of Bactericidal Hydrogels by Covalent Attachment of Stabilized Antimicrobial Peptides Using Thiol-ene Click Chemistry. <i>ACS Macro Letters</i> , 2014, 3, 477-480.	4.8	64
15	A doxycycline-loaded polymer-lipid encapsulation matrix coating for the prevention of implant-related osteomyelitis due to doxycycline-resistant methicillin-resistant <i>Staphylococcus aureus</i> . <i>Journal of Controlled Release</i> , 2015, 209, 47-56.	9.9	63
16	Current Concepts of Osteomyelitis. <i>American Journal of Pathology</i> , 2020, 190, 1151-1163.	3.8	61
17	Bactericidal activity of amphipathic cationic antimicrobial peptides involves altering the membrane fluidity when interacting with the phospholipid bilayer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2404-2415.	2.6	59
18	<i>Mycoplasma pneumoniae</i> P1 Type 1- and Type 2-Specific Sequences within the P1 Cytoadhesin Gene of Individual Strains. <i>Infection and Immunity</i> , 2001, 69, 5612-5618.	2.2	52

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19	Controlled Release of LL37-Derived Synthetic Antimicrobial and Anti-Biofilm Peptides SAAP145 and SAAP276 Prevents Experimental Biomaterial-Associated <i>Staphylococcus aureus</i> Infection. <i>Advanced Functional Materials</i> , 2017, 27, 1606623.	14.9	51
20	Serum IgA Immune Complexes Promote Proinflammatory Cytokine Production by Human Macrophages, Monocytes, and Kupffer Cells through FcγRIIa-TLR Cross-Talk. <i>Journal of Immunology</i> , 2017, 199, 4124-4131.	0.8	51
21	Peri-Implant Tissue Is an Important Niche for <i>Staphylococcus epidermidis</i> in Experimental Biomaterial-Associated Infection in Mice. <i>Infection and Immunity</i> , 2007, 75, 1129-1136.	2.2	50
22	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. <i>Biofilm</i> , 2020, 2, 100010.	3.8	50
23	Synergistic microbicidal effect of cationic antimicrobial peptides and teicoplanin against planktonic and biofilm-encased <i>Staphylococcus aureus</i> . <i>International Journal of Antimicrobial Agents</i> , 2019, 53, 143-151.	2.5	39
24	Recommendations for design and conduct of preclinical in vivo studies of orthopedic device-related infection. <i>Journal of Orthopaedic Research</i> , 2019, 37, 271-287.	2.3	38
25	Subcutaneous abscess formation around catheters induced by viable and nonviable <i>Staphylococcus epidermidis</i> as well as by small amounts of bacterial cell wall components. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 50, 546-556.	3.1	35
26	In Vitro Bacterial Adhesion and Biofilm Formation on Fully Absorbable Poly-4-hydroxybutyrate and Nonabsorbable Polypropylene Pelvic Floor Implants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53646-53653.	8.0	35
27	C-Reactive Protein Promotes Inflammation through FcγR-Induced Glycolytic Reprogramming of Human Macrophages. <i>Journal of Immunology</i> , 2019, 203, 225-235.	0.8	30
28	Synthetic antimicrobial peptides delocalize membrane bound proteins thereby inducing a cell envelope stress response. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2416-2427.	2.6	29
29	Interlaboratory study for the evaluation of three microtiter plate-based biofilm quantification methods. <i>Scientific Reports</i> , 2021, 11, 13779.	3.3	24
30	Multiplexed detection and differentiation of bacterial enzymes and bacteria by color-encoded sensor hydrogels. <i>Bioactive Materials</i> , 2021, 6, 4286-4300.	15.6	22
31	Antimicrobial peptide modification of biomaterials using supramolecular additives. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1926-1934.	2.3	21
32	A dual functional bone defect filling material with sequential antibacterial and osteoinductive properties for infected bone defect repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2360-2370.	4.0	21
33	Thrombocidin-1-derived antimicrobial peptide TC19 combats superficial multi-drug resistant bacterial wound infections. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183282.	2.6	20
34	Three-Dimensional <i>In Vitro</i> <i>Staphylococcus aureus</i> Abscess Communities Display Antibiotic Tolerance and Protection from Neutrophil Clearance. <i>Infection and Immunity</i> , 2020, 88, .	2.2	16
35	Bacterial Persister-Cells and Spores in the Food Chain: Their Potential Inactivation by Antimicrobial Peptides (AMPs). <i>International Journal of Molecular Sciences</i> , 2020, 21, 8967.	4.1	14
36	Photochemical internalization enhances cytosolic release of antibiotic and increases its efficacy against staphylococcal infection. <i>Journal of Controlled Release</i> , 2018, 283, 214-222.	9.9	13

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37	The zebrafish embryo as a model to quantify early inflammatory cell responses to biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2522-2532.	4.0	11
38	Dendritic Cells Internalize <i>Staphylococcus aureus</i> More Efficiently than <i>Staphylococcus epidermidis</i> , but Do Not Differ in Induction of Antigen-Specific T Cell Proliferation. <i>Microorganisms</i> , 2020, 8, 19.	3.6	9
39	Combined Effect of Naturally-Derived Biofilm Inhibitors and Differentiated HL-60 Cells in the Prevention of <i>Staphylococcus aureus</i> Biofilm Formation. <i>Microorganisms</i> , 2020, 8, 1757.	3.6	9
40	3D-Printed Gentamicin-Releasing Poly- ϵ -Caprolactone Composite Prevents Fracture-Related <i>Staphylococcus aureus</i> Infection in Mice. <i>Pharmaceutics</i> , 2022, 14, 1363.	4.5	9
41	Data on the surface morphology of additively manufactured Ti-6Al-4V implants during processing by plasma electrolytic oxidation. <i>Data in Brief</i> , 2017, 13, 385-389.	1.0	7
42	Coupling Additive Manufacturing with Hot Melt Extrusion Technologies to Validate a Ventilator-Associated Pneumonia Mouse Model. <i>Pharmaceutics</i> , 2021, 13, 772.	4.5	7
43	Isolation of Persister Cells of <i>Bacillus subtilis</i> and Determination of Their Susceptibility to Antimicrobial Peptides. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10059.	4.1	7
44	Cyclic Trypticin Analogs with Distinct Biological Activities. <i>Probiotics and Antimicrobial Proteins</i> , 2011, 3, 132-143.	3.9	6
45	The Nature of Antibacterial Adaptive Immune Responses against <i>Staphylococcus aureus</i> Is Dependent on the Growth Phase and Extracellular Peptidoglycan. <i>Infection and Immunity</i> , 2019, 88, .	2.2	6
46	In Vitro 3D <i>Staphylococcus aureus</i> Abscess Communities Induce Bone Marrow Cells to Expand into Myeloid-Derived Suppressor Cells. <i>Pathogens</i> , 2021, 10, 1446.	2.8	6
47	The impact of bacterial contamination on the host response towards fully absorbable poly-4-hydroxybutyrate and nonabsorbable polypropylene pelvic floor implants. <i>Materials Today Bio</i> , 2022, 15, 100268.	5.5	5
48	The Role of the Oral Immune System in Oropharyngeal Candidiasis-Facilitated Invasion and Dissemination of <i>Staphylococcus aureus</i> . <i>Frontiers in Oral Health</i> , 2022, 3, 851786.	3.0	4
49	A Zebrafish Embryo Model for In Vivo Visualization and Intravital Analysis of Biomaterial-associated <i>Staphylococcus aureus</i> Infection. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	2
50	Photochemical Internalization as a New Strategy to Enhance Efficacy of Antimicrobial Agents Against Intracellular Infections. <i>Methods in Molecular Biology</i> , 2022, 2451, 671-689.	0.9	0