Sebastian A J Zaat

List of Publications by Year
in descending order

50 papers	3,518 citations	201385 27 h-index	197535 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. Science Translational Medicine, 2012, 4, 153rv10.	5.8	575
2	The antimicrobial peptide SAAP-148 combats drug-resistant bacteria and biofilms. Science Translational Medicine, 2018, 10, .	5.8	358
3	How honey kills bacteria. FASEB Journal, 2010, 24, 2576-2582.	0.2	353
4	Cross-linking and characterisation of gelatin matrices for biomedical applications. Journal of Biomaterials Science, Polymer Edition, 2000, 11, 225-243.	1.9	270
5	Selective laser melting porous metallic implants with immobilized silver nanoparticles kill and prevent biofilm formation by methicillin-resistant Staphylococcus aureus. Biomaterials, 2017, 140, 1-15.	5.7	170
6	Antimicrobial Peptides in Biomedical Device Manufacturing. Frontiers in Chemistry, 2017, 5, 63.	1.8	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. Frontiers in Cell and Developmental Biology, 2016, 4, 111.	1.8	139
8	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. EFORT Open Reviews, 2016, 1, 89-99.	1.8	131
9	Antibacterial photodynamic therapy: overview of a promising approach to fight antibiotic-resistant bacterial infections. Journal of Clinical and Translational Research, 2015, 1, 140-167.	0.3	118
10	In vitro methods for the evaluation of antimicrobial surface designs. Acta Biomaterialia, 2018, 70, 12-24.	4.1	97
11	Methodologies for in vitro and in vivo evaluation of efficacy of antifungal and antibiofilm agents and surface coatings against fungal biofilms. Microbial Cell, 2018, 5, 300-326.	1.4	81
12	Staphylococcus epidermidis originating from titanium implants infects surrounding tissue and immune cells. Acta Biomaterialia, 2014, 10, 5202-5212.	4.1	66
13	Evaluating Efficacy of Antimicrobial and Antifouling Materials for Urinary Tract Medical Devices: Challenges and Recommendations. Macromolecular Bioscience, 2019, 19, e1800384.	2.1	66
14	Convenient Preparation of Bactericidal Hydrogels by Covalent Attachment of Stabilized Antimicrobial Peptides Using Thiolâ€“ene Click Chemistry. ACS Macro Letters, 2014, 3, 477-480.	2.3	64
15	A doxycycline-loaded polymer-lipid encapsulation matrix coating for the prevention of implant-related osteomyelitis due to doxycycline-resistant methicillin-resistant Staphylococcus aureus. Journal of Controlled Release, 2015, 209, 47-56.	4.8	63
16	Current Concepts of Osteomyelitis. American Journal of Pathology, 2020, 190, 1151-1163.	1.9	61
17	Bactericidal activity of amphipathic cationic antimicrobial peptides involves altering the membrane fluidity when interacting with the phospholipid bilayer. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2404-2415.	1.4	59
18	Mycoplasma pneumoniae P1 Type 1- and Type 2-Specific Sequences within the P1 Cytadhesin Gene of Individual Strains. Infection and Immunity, 2001, 69, 5612-5618.	1.0	52

#	Article	IF	Citations
19	Controlled Release of LLâ€37â€Derived Synthetic Antimicrobial and Antiâ€Biofilm Peptides SAAPâ€145 and SAAPâ€276 Prevents Experimental Biomaterialâ€Associated Staphylococcus aureus Infection. Advanced Functional Materials, 2017, 27, 1606623.	7.8	51
20	Serum IgA Immune Complexes Promote Proinflammatory Cytokine Production by Human Macrophages, Monocytes, and Kupffer Cells through FcÎ±RIâ€“TLR Cross-Talk. Journal of Immunology, 2017, 199, 4124-4131.	0.4	51
21	Peri-Implant Tissue Is an Important Niche for Staphylococcus epidermidis in Experimental Biomaterial-Associated Infection in Mice. Infection and Immunity, 2007, 75, 1129-1136.	1.0	50
22	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. Biofilm, 2020, 2, 100010.	1.5	50
23	Synergistic microbicidal effect of cationic antimicrobial peptides and teicoplanin against planktonic and biofilm-encased Staphylococcus aureus. International Journal of Antimicrobial Agents, 2019, 53, 143-151.	1.1	39
24	Recommendations for design and conduct of preclinical in vivo studies of orthopedic deviceâ€related infection. Journal of Orthopaedic Research, 2019, 37, 271-287.	1.2	38
25	Subcutaneous abscess formation around catheters induced by viable and nonviableStaphylococcus epidermidis as well as by small amounts of bacterial cell wall components. Journal of Biomedical Materials Research Part B, 2000, 50, 546-556.	3.0	35
26	In Vitro Bacterial Adhesion and Biofilm Formation on Fully Absorbable Poly-4-hydroxybutyrate and Nonabsorbable Polypropylene Pelvic Floor Implants. ACS Applied Materials & Interfaces, 2020, 12, 53646-53653.	4.0	35
27	C-Reactive Protein Promotes Inflammation through FcÎ³R-Induced Glycolytic Reprogramming of Human Macrophages. Journal of Immunology, 2019, 203, 225-235.	0.4	30
28	Synthetic antimicrobial peptides delocalize membrane bound proteins thereby inducing a cell envelope stress response. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2416-2427.	1.4	29
29	Interlaboratory study for the evaluation of three microtiter plate-based biofilm quantification methods. Scientific Reports, 2021, 11, 13779.	1.6	24
30	Multiplexed detection and differentiation of bacterial enzymes and bacteria by color-encoded sensor hydrogels. Bioactive Materials, 2021, 6, 4286-4300.	8.6	22
31	Antimicrobial peptide modification of biomaterials using supramolecular additives. Journal of Polymer Science Part A, 2018, 56, 1926-1934.	2.5	21
32	A dual functional boneâ€defectâ€filling material with sequential antibacterial and osteoinductive properties for infected bone defect repair. Journal of Biomedical Materials Research - Part A, 2019, 107, 2360-2370.	2.1	21
33	Thrombocidin-1-derived antimicrobial peptide TC19 combats superficial multi-drug resistant bacterial wound infections. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183282.	1.4	20
34	Three-Dimensional In Vitro Staphylococcus aureus Abscess Communities Display Antibiotic Tolerance and Protection from Neutrophil Clearance. Infection and Immunity, 2020, 88, .	1.0	16
35	Bacterial Persister-Cells and Spores in the Food Chain: Their Potential Inactivation by Antimicrobial Peptides (AMPs). International Journal of Molecular Sciences, 2020, 21, 8967.	1.8	14
36	Photochemical internalization enhances cytosolic release of antibiotic and increases its efficacy against staphylococcal infection. Journal of Controlled Release, 2018, 283, 214-222.	4.8	13

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37	The zebrafish embryo as a model to quantify early inflammatory cell responses to biomaterials. Journal of Biomedical Materials Research - Part A, 2017, 105, 2522-2532.	2.1	11
38	Dendritic Cells Internalize Staphylococcus aureus More Efficiently than Staphylococcus epidermidis, but Do Not Differ in Induction of Antigen-Specific T Cell Proliferation. Microorganisms, 2020, 8, 19.	1.6	9
39	Combined Effect of Naturally-Derived Biofilm Inhibitors and Differentiated HL-60 Cells in the Prevention of Staphylococcus aureus Biofilm Formation. Microorganisms, 2020, 8, 1757.	1.6	9
40	3D-Printed Gentamicin-Releasing Poly-Îµ-Caprolactone Composite Prevents Fracture-Related Staphylococcus aureus Infection in Mice. Pharmaceutics, 2022, 14, 1363.	2.0	9
41	Data on the surface morphology of additively manufactured Ti-6Al-4V implants during processing by plasma electrolytic oxidation. Data in Brief, 2017, 13, 385-389.	0.5	7
42	Coupling Additive Manufacturing with Hot Melt Extrusion Technologies to Validate a Ventilator-Associated Pneumonia Mouse Model. Pharmaceutics, 2021, 13, 772.	2.0	7
43	Isolation of Persister Cells of Bacillus subtilis and Determination of Their Susceptibility to Antimicrobial Peptides. International Journal of Molecular Sciences, 2021, 22, 10059.	1.8	7
44	Cyclic Tritrpticin Analogs with Distinct Biological Activities. Probiotics and Antimicrobial Proteins, 2011, 3, 132-143.	1.9	6
45	The Nature of Antibacterial Adaptive Immune Responses against Staphylococcus aureus Is Dependent on the Growth Phase and Extracellular Peptidoglycan. Infection and Immunity, 2019, 88, .	1.0	6
46	In Vitro 3D Staphylococcus aureus Abscess Communities Induce Bone Marrow Cells to Expand into Myeloid-Derived Suppressor Cells. Pathogens, 2021, 10, 1446.	1.2	6
47	The impact of bacterial contamination on the host response towards fully absorbable poly-4-hydroxybutyrate and nonabsorbable polypropylene pelvic floor implants. Materials Today Bio, 2022, 15, 100268.	2.6	5
48	The Role of the Oral Immune System in Oropharyngeal Candidiasis-Facilitated Invasion and Dissemination of Staphylococcus aureus. Frontiers in Oral Health, 2022, 3, 851786.	1.2	4
49	A Zebrafish Embryo Model for In Vivo Visualization and Intravital Analysis of Biomaterial-associated Staphylococcus aureus Infection. Journal of Visualized Experiments, 2019, , .	0.2	2
50	Photochemical Internalization as a New Strategy to Enhance Efficacy of Antimicrobial Agents Against Intracellular Infections. Methods in Molecular Biology, 2022, 2451, 671-689.	0.4	0