

Carl-Fredrik Flach

List of Publications by Year in Descending Order

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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.

48
papers

1,898
citations

24
h-index

43
g-index

53
ext. papers

2,713
ext. citations

8.3
avg, IF

5.16
L-index

| # | Paper | IF | Citations |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 48 | Long-read metagenomic sequencing reveals shifts in associations of antibiotic resistance genes with mobile genetic elements from sewage to activated sludge.. <i>Microbiome</i> , 2022 , 10, 20 | 16.6 | 2 |
| 47 | Antibiotic resistance genes of emerging concern in municipal and hospital wastewater from a major Swedish city. <i>Science of the Total Environment</i> , 2021 , 812, 151433 | 10.2 | 2 |
| 46 | Antibiotic resistance in the environment. <i>Nature Reviews Microbiology</i> , 2021 , | 22.2 | 68 |
| 45 | Antibiotic Resistance in Wastewater Treatment Plants and Transmission Risks for Employees and Residents: The Concept of the AWARE Study. <i>Antibiotics</i> , 2021 , 10, | 4.9 | 3 |
| 44 | Investigating the effects of municipal and hospital wastewaters on horizontal gene transfer. <i>Environmental Pollution</i> , 2021 , 276, 116733 | 9.3 | 6 |
| 43 | Evidence for selection of multi-resistant E. coli by hospital effluent. <i>Environment International</i> , 2021 , 150, 106436 | 12.9 | 8 |
| 42 | Monitoring of hospital sewage shows both promise and limitations as an early-warning system for carbapenemase-producing Enterobacterales in a low-prevalence setting. <i>Water Research</i> , 2021 , 200, 117261 | 12.5 | 5 |
| 41 | Carriage of ESBL-producing Enterobacterales in wastewater treatment plant workers and surrounding residents - the AWARE Study.. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021 , 1 | 5.3 | 0 |
| 40 | Predicting clinical resistance prevalence using sewage metagenomic data. <i>Communications Biology</i> , 2020 , 3, 711 | 6.7 | 11 |
| 39 | A Novel, Integron-Regulated, Class C β -Lactamase. <i>Antibiotics</i> , 2020 , 9, | 4.9 | 9 |
| 38 | Discovery of a novel integron-borne aminoglycoside resistance gene present in clinical pathogens by screening environmental bacterial communities. <i>Microbiome</i> , 2020 , 8, 41 | 16.6 | 23 |
| 37 | Surveillance of antibiotic resistant Escherichia coli in human populations through urban wastewater in ten European countries. <i>Environmental Pollution</i> , 2020 , 261, 114200 | 9.3 | 24 |
| 36 | Long-term application of Swedish sewage sludge on farmland does not cause clear changes in the soil bacterial resistome. <i>Environment International</i> , 2020 , 137, 105339 | 12.9 | 22 |
| 35 | Structural insights into the enhanced carbapenemase efficiency of OXA-655 compared to OXA-10. <i>FEBS Open Bio</i> , 2020 , 10, 1821-1832 | 2.7 | 2 |
| 34 | Selective concentrations for trimethoprim resistance in aquatic environments. <i>Environment International</i> , 2020 , 144, 106083 | 12.9 | 15 |
| 33 | The Association between Insertion Sequences and Antibiotic Resistance Genes. <i>MSphere</i> , 2020 , 5, | 5 | 24 |
| 32 | Diarrheal bacterial pathogens and multi-resistant enterobacteria in the Choqueyapu River in La Paz, Bolivia. <i>PLoS ONE</i> , 2019 , 14, e0210735 | 3.7 | 14 |

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| 31 | A conceptual framework for the environmental surveillance of antibiotics and antibiotic resistance. <i>Environment International</i> , 2019 , 130, 104880 | 12.9 | 67 |
| 30 | Population-level surveillance of antibiotic resistance in through sewage analysis. <i>Eurosurveillance</i> , 2019 , 24, | 19.8 | 36 |
| 29 | Characterization of the First OXA-10 Natural Variant with Increased Carbapenemase Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63, | 5.9 | 12 |
| 28 | Functional metagenomics reveals a novel carbapenem-hydrolyzing mobile beta-lactamase from Indian river sediments contaminated with antibiotic production waste. <i>Environment International</i> , 2018 , 112, 279-286 | 12.9 | 33 |
| 27 | Selective concentration for ciprofloxacin resistance in Escherichia coli grown in complex aquatic bacterial biofilms. <i>Environment International</i> , 2018 , 116, 255-268 | 12.9 | 49 |
| 26 | Critical knowledge gaps and research needs related to the environmental dimensions of antibiotic resistance. <i>Environment International</i> , 2018 , 117, 132-138 | 12.9 | 183 |
| 25 | A Comprehensive Screening of Escherichia coli Isolates from Scandinavia's Largest Sewage Treatment Plant Indicates No Selection for Antibiotic Resistance. <i>Environmental Science & Technology</i> , 2018 , 52, 11419-11428 | 10.3 | 30 |
| 24 | Does antifouling paint select for antibiotic resistance?. <i>Science of the Total Environment</i> , 2017 , 590-591, 461-468 | 10.2 | 42 |
| 23 | Computational discovery and functional validation of novel fluoroquinolone resistance genes in public metagenomic data sets. <i>BMC Genomics</i> , 2017 , 18, 682 | 4.5 | 16 |
| 22 | Identification of 76 novel B1 metallo-β-lactamases through large-scale screening of genomic and metagenomic data. <i>Microbiome</i> , 2017 , 5, 134 | 16.6 | 44 |
| 21 | Discovery of the fourth mobile sulfonamide resistance gene. <i>Microbiome</i> , 2017 , 5, 160 | 16.6 | 65 |
| 20 | Elucidating selection processes for antibiotic resistance in sewage treatment plants using metagenomics. <i>Science of the Total Environment</i> , 2016 , 572, 697-712 | 10.2 | 152 |
| 19 | An assay for determining minimal concentrations of antibiotics that drive horizontal transfer of resistance. <i>Science of the Total Environment</i> , 2016 , 548-549, 131-138 | 10.2 | 99 |
| 18 | Minimal selective concentrations of tetracycline in complex aquatic bacterial biofilms. <i>Science of the Total Environment</i> , 2016 , 553, 587-595 | 10.2 | 116 |
| 17 | Isolation of novel IncA/C and IncN fluoroquinolone resistance plasmids from an antibiotic-polluted lake. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2709-17 | 5.1 | 43 |
| 16 | Defining the Roles of IFN-β and IL-17A in Inflammation and Protection against Helicobacter pylori Infection. <i>PLoS ONE</i> , 2015 , 10, e0131444 | 3.7 | 14 |
| 15 | Fluoroquinolones and qnr genes in sediment, water, soil, and human fecal flora in an environment polluted by manufacturing discharges. <i>Environmental Science & Technology</i> , 2014 , 48, 7825-32 | 10.3 | 111 |
| 14 | Functional verification of computationally predicted qnr genes. <i>Annals of Clinical Microbiology and Antimicrobials</i> , 2013 , 12, 34 | 6.2 | 14 |

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| 13 | A double mutant heat-labile toxin from <i>Escherichia coli</i> , LT(R192G/L211A), is an effective mucosal adjuvant for vaccination against <i>Helicobacter pylori</i> infection. <i>Infection and Immunity</i> , 2013 , 81, 1532-40 | 3.7 | 59 |
| 12 | Mucosal vaccination increases local chemokine production attracting immune cells to the stomach mucosa of <i>Helicobacter pylori</i> infected mice. <i>Vaccine</i> , 2012 , 30, 1636-43 | 4.1 | 16 |
| 11 | A truncated form of HpaA is a promising antigen for use in a vaccine against <i>Helicobacter pylori</i> . <i>Vaccine</i> , 2011 , 29, 1235-41 | 4.1 | 46 |
| 10 | Proinflammatory cytokine gene expression in the stomach correlates with vaccine-induced protection against <i>Helicobacter pylori</i> infection in mice: an important role for interleukin-17 during the effector phase. <i>Infection and Immunity</i> , 2011 , 79, 879-86 | 3.7 | 46 |
| 9 | Sublingual immunization protects against <i>Helicobacter pylori</i> infection and induces T and B cell responses in the stomach. <i>Infection and Immunity</i> , 2010 , 78, 4251-60 | 3.7 | 52 |
| 8 | Real-time PCR quantification analysis of five mucosal transcripts in patients with Crohn's disease. <i>European Journal of Gastroenterology and Hepatology</i> , 2008 , 20, 290-6 | 2.2 | 10 |
| 7 | Five mucosal transcripts of interest in ulcerative colitis identified by quantitative real-time PCR: a prospective study. <i>BMC Gastroenterology</i> , 2008 , 8, 34 | 3 | 13 |
| 6 | Broad up-regulation of innate defense factors during acute cholera. <i>Infection and Immunity</i> , 2007 , 75, 2343-50 | 3.7 | 60 |
| 5 | Differential expression of intestinal membrane transporters in cholera patients. <i>FEBS Letters</i> , 2007 , 581, 3183-8 | 3.8 | 29 |
| 4 | Detection of elafin as a candidate biomarker for ulcerative colitis by whole-genome microarray screening. <i>Inflammatory Bowel Diseases</i> , 2006 , 12, 837-42 | 4.5 | 28 |
| 3 | Mucosal adjuvants and anti-infection and anti-immunopathology vaccines based on cholera toxin, cholera toxin B subunit and CpG DNA. <i>Immunology Letters</i> , 2005 , 97, 181-8 | 4.1 | 138 |
| 2 | Cholera toxin induces a transient depletion of CD8+ intraepithelial lymphocytes in the rat small intestine as detected by microarray and immunohistochemistry. <i>Infection and Immunity</i> , 2005 , 73, 5595-602 | 3.7 | 10 |
| 1 | Cholera toxin induces expression of ion channels and carriers in rat small intestinal mucosa. <i>FEBS Letters</i> , 2004 , 561, 122-6 | 3.8 | 24 |