

Carl-Fredrik Flach

List of Publications by Citations

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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	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
47	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
46	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
45	Minimal selective concentrations of tetracycline in complex aquatic bacterial biofilms. <i>Science of the Total Environment</i> , 2016 , 553, 587-595	10.2	116
44	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
43	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
42	Antibiotic resistance in the environment. <i>Nature Reviews Microbiology</i> , 2021 ,	22.2	68
41	A conceptual framework for the environmental surveillance of antibiotics and antibiotic resistance. <i>Environment International</i> , 2019 , 130, 104880	12.9	67
40	Discovery of the fourth mobile sulfonamide resistance gene. <i>Microbiome</i> , 2017 , 5, 160	16.6	65
39	Broad up-regulation of innate defense factors during acute cholera. <i>Infection and Immunity</i> , 2007 , 75, 2343-50	3.7	60
38	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
37	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
36	Selective concentration for ciprofloxacin resistance in <i>Escherichia coli</i> grown in complex aquatic bacterial biofilms. <i>Environment International</i> , 2018 , 116, 255-268	12.9	49
35	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
34	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
33	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
32	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

31	Does antifouling paint select for antibiotic resistance?. <i>Science of the Total Environment</i> , 2017 , 590-591, 461-468	10.2	42
30	Population-level surveillance of antibiotic resistance in through sewage analysis. <i>Eurosurveillance</i> , 2019 , 24,	19.8	36
29	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
28	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
27	Differential expression of intestinal membrane transporters in cholera patients. <i>FEBS Letters</i> , 2007 , 581, 3183-8	3.8	29
26	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
25	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
24	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
23	The Association between Insertion Sequences and Antibiotic Resistance Genes. <i>MSphere</i> , 2020 , 5,	5	24
22	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
21	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
20	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
19	Mucosal vaccination increases local chemokine production attracting immune cells to the stomach mucosa of Helicobacter pylori infected mice. <i>Vaccine</i> , 2012 , 30, 1636-43	4.1	16
18	Selective concentrations for trimethoprim resistance in aquatic environments. <i>Environment International</i> , 2020 , 144, 106083	12.9	15
17	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
16	Functional verification of computationally predicted qnr genes. <i>Annals of Clinical Microbiology and Antimicrobials</i> , 2013 , 12, 34	6.2	14
15	Defining the Roles of IFN- γ and IL-17A in Inflammation and Protection against Helicobacter pylori Infection. <i>PLoS ONE</i> , 2015 , 10, e0131444	3.7	14
14	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

13	Characterization of the First OXA-10 Natural Variant with Increased Carbapenemase Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	12
12	Predicting clinical resistance prevalence using sewage metagenomic data. <i>Communications Biology</i> , 2020 , 3, 711	6.7	11
11	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
10	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	2.7	10
9	A Novel, Integron-Regulated, Class C β -Lactamase. <i>Antibiotics</i> , 2020 , 9,	4.9	9
8	Evidence for selection of multi-resistant E. coli by hospital effluent. <i>Environment International</i> , 2021 , 150, 106436	12.9	8
7	Investigating the effects of municipal and hospital wastewaters on horizontal gene transfer. <i>Environmental Pollution</i> , 2021 , 276, 116733	9.3	6
6	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
5	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
4	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
3	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
2	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
1	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