

Carl-Fredrik Flach

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,680
citations

172207

29
h-index

189595

50
g-index

53
all docs

53
docs citations

53
times ranked

3477
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotic resistance in the environment. <i>Nature Reviews Microbiology</i> , 2022, 20, 257-269.	13.6	776
2	Critical knowledge gaps and research needs related to the environmental dimensions of antibiotic resistance. <i>Environment International</i> , 2018, 117, 132-138.	4.8	281
3	Elucidating selection processes for antibiotic resistance in sewage treatment plants using metagenomics. <i>Science of the Total Environment</i> , 2016, 572, 697-712.	3.9	213
4	Minimal selective concentrations of tetracycline in complex aquatic bacterial biofilms. <i>Science of the Total Environment</i> , 2016, 553, 587-595.	3.9	166
5	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, 181-188.	1.1	159
6	Fluoroquinolones and <i>qnr</i> Genes in Sediment, Water, Soil, and Human Fecal Flora in an Environment Polluted by Manufacturing Discharges. <i>Environmental Science & Technology</i> , 2014, 48, 7825-7832.	4.6	158
7	A conceptual framework for the environmental surveillance of antibiotics and antibiotic resistance. <i>Environment International</i> , 2019, 130, 104880.	4.8	142
8	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.	3.9	134
9	Discovery of the fourth mobile sulfonamide resistance gene. <i>Microbiome</i> , 2017, 5, 160.	4.9	134
10	Identification of 76 novel B1 metallo- β -lactamases through large-scale screening of genomic and metagenomic data. <i>Microbiome</i> , 2017, 5, 134.	4.9	75
11	Population-level surveillance of antibiotic resistance in <i>Escherichia coli</i> through sewage analysis. <i>Eurosurveillance</i> , 2019, 24, .	3.9	73
12	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, 1532-1540.	1.0	71
13	Selective concentration for ciprofloxacin resistance in <i>Escherichia coli</i> grown in complex aquatic bacterial biofilms. <i>Environment International</i> , 2018, 116, 255-268.	4.8	71
14	Does antifouling paint select for antibiotic resistance?. <i>Science of the Total Environment</i> , 2017, 590-591, 461-468.	3.9	70
15	Broad Up-Regulation of Innate Defense Factors during Acute Cholera. <i>Infection and Immunity</i> , 2007, 75, 2343-2350.	1.0	68
16	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, 4251-4260.	1.0	62
17	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.	4.8	60
18	The Association between Insertion Sequences and Antibiotic Resistance Genes. <i>MSphere</i> , 2020, 5, .	1.3	60

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19	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, 879-886.	1.0	52
20	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.	4.9	52
21	Isolation of novel IncA/C and IncN fluoroquinolone resistance plasmids from an antibiotic-polluted lake. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 2709-2717.	1.3	51
22	A truncated form of HpaA is a promising antigen for use in a vaccine against <i>Helicobacter pylori</i> . <i>Vaccine</i> , 2011, 29, 1235-1241.	1.7	50
23	Surveillance of antibiotic resistant <i>Escherichia coli</i> in human populations through urban wastewater in ten European countries. <i>Environmental Pollution</i> , 2020, 261, 114200.	3.7	50
24	A Comprehensive Screening of <i>Escherichia coli</i> Isolates from Scandinavia's Largest Sewage Treatment Plant Indicates No Selection for Antibiotic Resistance. <i>Environmental Science & Technology</i> , 2018, 52, 11419-11428.	4.6	46
25	Discovery of a novel integron-borne aminoglycoside resistance gene present in clinical pathogens by screening environmental bacterial communities. <i>Microbiome</i> , 2020, 8, 41.	4.9	38
26	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.	4.8	38
27	Detection of elafin as a candidate biomarker for ulcerative colitis by whole-genome microarray screening. <i>Inflammatory Bowel Diseases</i> , 2006, 12, 837-842.	0.9	37
28	Predicting clinical resistance prevalence using sewage metagenomic data. <i>Communications Biology</i> , 2020, 3, 711.	2.0	37
29	Diarrheal bacterial pathogens and multi-resistant enterobacteria in the Choqueyapu River in La Paz, Bolivia. <i>PLoS ONE</i> , 2019, 14, e0210735.	1.1	33
30	Differential expression of intestinal membrane transporters in cholera patients. <i>FEBS Letters</i> , 2007, 581, 3183-3188.	1.3	32
31	Evidence for selection of multi-resistant <i>E. coli</i> by hospital effluent. <i>Environment International</i> , 2021, 150, 106436.	4.8	31
32	Selective concentrations for trimethoprim resistance in aquatic environments. <i>Environment International</i> , 2020, 144, 106083.	4.8	30
33	Antibiotic resistance genes of emerging concern in municipal and hospital wastewater from a major Swedish city. <i>Science of the Total Environment</i> , 2022, 812, 151433.	3.9	28
34	Demonstrating a Comprehensive Wastewater-Based Surveillance Approach That Differentiates Globally Sourced Resistomes. <i>Environmental Science & Technology</i> , 2022, 56, 14982-14993.	4.6	27
35	Investigating the effects of municipal and hospital wastewaters on horizontal gene transfer. <i>Environmental Pollution</i> , 2021, 276, 116733.	3.7	26
36	Cholera toxin induces expression of ion channels and carriers in rat small intestinal mucosa. <i>FEBS Letters</i> , 2004, 561, 122-126.	1.3	25

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37	Computational discovery and functional validation of novel fluoroquinolone resistance genes in public metagenomic data sets. <i>BMC Genomics</i> , 2017, 18, 682.	1.2	24
38	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.	5.3	24
39	Characterization of the First OXA-10 Natural Variant with Increased Carbapenemase Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	21
40	Five mucosal transcripts of interest in ulcerative colitis identified by quantitative real-time PCR: a prospective study. <i>BMC Gastroenterology</i> , 2008, 8, 34.	0.8	19
41	Defining the Roles of IFN- β and IL-17A in Inflammation and Protection against <i>Helicobacter pylori</i> Infection. <i>PLoS ONE</i> , 2015, 10, e0131444.	1.1	19
42	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, 1636-1643.	1.7	18
43	Antibiotic Resistance in Wastewater Treatment Plants and Transmission Risks for Employees and Residents: The Concept of the AWARE Study. <i>Antibiotics</i> , 2021, 10, 478.	1.5	17
44	Functional verification of computationally predicted qnr genes. <i>Annals of Clinical Microbiology and Antimicrobials</i> , 2013, 12, 34.	1.7	16
45	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, 290-296.	0.8	14
46	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, 5595-5602.	1.0	13
47	A Novel, Integron-Regulated, Class C β -Lactamase. <i>Antibiotics</i> , 2020, 9, 123.	1.5	11
48	Structural insights into the enhanced carbapenemase efficiency of OXA-655 compared to OXA-10. <i>FEBS Open Bio</i> , 2020, 10, 1821-1832.	1.0	9
49	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.	1.3	9
50	International Travel as a Risk Factor for Carriage of Extended-Spectrum β -Lactamase-Producing <i>Escherichia coli</i> in a Large Sample of European Individuals – The AWARE Study. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4758.	1.2	7