

Heike Schmitt

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.

65
papers

3,212
citations

27
h-index

56
g-index

76
ext. papers

4,296
ext. citations

7.3
avg, IF

5.27
L-index

#	Paper	IF	Citations
65	Antibiotic resistance gene spread due to manure application on agricultural fields. <i>Current Opinion in Microbiology</i> , 2011 , 14, 236-43	7.9	632
64	Global monitoring of antimicrobial resistance based on metagenomics analyses of urban sewage. <i>Nature Communications</i> , 2019 , 10, 1124	17.4	293
63	Tetracyclines and tetracycline resistance in agricultural soils: microcosm and field studies. <i>Microbial Ecology</i> , 2006 , 51, 267-76	4.4	178
62	Pollution-induced community tolerance of soil microbial communities caused by the antibiotic sulfachloropyridazine. <i>Environmental Science & Technology</i> , 2004 , 38, 1148-53	10.3	129
61	Abundance and diversity of the faecal resistome in slaughter pigs and broilers in nine European countries. <i>Nature Microbiology</i> , 2018 , 3, 898-908	26.6	128
60	Antibiotic resistance genes in treated wastewater and in the receiving water bodies: A pan-European survey of urban settings. <i>Water Research</i> , 2019 , 162, 320-330	12.5	117
59	Effects of sulfamethoxazole on soil microbial communities after adding substrate. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 840-848	7.5	112
58	Effects of antibiotics on soil microorganisms: time and nutrients influence pollution-induced community tolerance. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 1882-1892	7.5	103
57	Prevalence of antibiotics and antibiotic resistance genes in a wastewater effluent-receiving river in the Netherlands. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 102245	6.8	100
56	Attributable sources of community-acquired carriage of Escherichia coli containing β -lactam antibiotic resistance genes: a population-based modelling study. <i>Lancet Planetary Health</i> , 2019 , 3, e357-e369	9.8	97
55	Molecular relatedness of ESBL/AmpC-producing Escherichia coli from humans, animals, food and the environment: a pooled analysis. <i>Journal of Antimicrobial Chemotherapy</i> , 2018 , 73, 339-347	5.1	93
54	Ecotoxicological effects of activated carbon addition to sediments. <i>Environmental Science & Technology</i> , 2009 , 43, 5959-66	10.3	92
53	Analysis, fate and effects of the antibiotic sulfadiazine in soil ecosystems. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 612-618	14.6	89
52	Evaluation of attenuation of pharmaceuticals, toxic potency, and antibiotic resistance genes in constructed wetlands treating wastewater effluents. <i>Science of the Total Environment</i> , 2018 , 631-632, 1572-1581	10.2	73
51	Quantitative structure-activity analysis of the algae toxicity of nitroaromatic compounds. <i>Chemical Research in Toxicology</i> , 2000 , 13, 441-50	4	69
50	Determinants of presence and removal of antibiotic resistance genes during WWTP treatment: A cross-sectional study. <i>Water Research</i> , 2019 , 161, 319-328	12.5	68
49	Algal toxicity of nitrobenzenes: combined effect analysis as a pharmacological probe for similar modes of interaction. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 324-33	3.8	66

48	Spread of tetracycline resistance genes at a conventional dairy farm. <i>Frontiers in Microbiology</i> , 2015 , 6, 536	5.7	48
47	Tetracycline resistance genes persist in soil amended with cattle feces independently from chlortetracycline selection pressure. <i>Soil Biology and Biochemistry</i> , 2015 , 81, 259-265	7.5	45
46	Microbe-mediated processes as indicators to establish the normal operating range of soil functioning. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 995-1002	7.5	42
45	Cow excrements enhance the occurrence of tetracycline resistance genes in soil regardless of their oxytetracycline content. <i>Chemosphere</i> , 2013 , 93, 2413-8	8.4	38
44	Nutrient amendment does not increase mineralisation of sequestered carbon during incubation of a nitrogen limited mangrove soil. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 822-829	7.5	37
43	Limited influence of hospital wastewater on the microbiome and resistome of wastewater in a community sewerage system. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	37
42	Impact of incorporated fresh ¹³ C potato tissues on the bacterial and fungal community composition of soil. <i>Soil Biology and Biochemistry</i> , 2012 , 49, 88-95	7.5	36
41	Quantitative and qualitative analysis of antimicrobial usage patterns in 180 selected farrow-to-finish pig farms from nine European countries based on single batch and purchase data. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 807-816	5.1	36
40	The antimicrobial resistome in relation to antimicrobial use and biosecurity in pig farming, a metagenome-wide association study in nine European countries. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 865-876	5.1	30
39	Hepatitis E Virus in Farmed Rabbits, Wild Rabbits and Petting Farm Rabbits in the Netherlands. <i>Food and Environmental Virology</i> , 2016 , 8, 227-9	4	29
38	ESBL carriage in pig slaughterhouse workers is associated with occupational exposure. <i>Epidemiology and Infection</i> , 2017 , 145, 2003-2010	4.3	27
37	Assessing the ecotoxicologic hazards of a pandemic influenza medical response. <i>Environmental Health Perspectives</i> , 2011 , 119, 1084-90	8.4	27
36	Reduction of extended-spectrum-β-lactamase- and AmpC-β-lactamase-producing <i>Escherichia coli</i> through processing in two broiler chicken slaughterhouses. <i>International Journal of Food Microbiology</i> , 2015 , 215, 57-63	5.8	25
35	Farm dust resistomes and bacterial microbiomes in European poultry and pig farms. <i>Environment International</i> , 2020 , 143, 105971	12.9	23
34	Quantitative and qualitative analysis of antimicrobial usage at farm and flock level on 181 broiler farms in nine European countries. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 798-806	5.1	23
33	Air exposure as a possible route for ESBL in pig farmers. <i>Environmental Research</i> , 2017 , 155, 359-364	7.9	20
32	Associations between antimicrobial use and the faecal resistome on broiler farms from nine European countries. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 2596-2604	5.1	20
31	Insights into Livestock-Related Microbial Concentrations in Air at Residential Level in a Livestock Dense Area. <i>Environmental Science & Technology</i> , 2019 , 53, 7746-7758	10.3	20

30	On the limits of toxicant-induced tolerance testing: cotolerance and response variation of antibiotic effects. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 1961-8	3.8	20
29	The EU-project ERAPharm. Incentives for the further development of guidance documents?. <i>Environmental Science and Pollution Research</i> , 2005 , 12, 62-5	5.1	19
28	Abundance and Antimicrobial Resistance of Three Bacterial Species along a Complete Wastewater Pathway. <i>Microorganisms</i> , 2019 , 7,	4.9	15
27	Setting a baseline for global urban virome surveillance in sewage. <i>Scientific Reports</i> , 2020 , 10, 13748	4.9	15
26	Role played by the environment in the emergence and spread of antimicrobial resistance (AMR) through the food chain. <i>EFSA Journal</i> , 2021 , 19, e06651	2.3	14
25	Description and determinants of the faecal resistome and microbiome of farmers and slaughterhouse workers: A metagenome-wide cross-sectional study. <i>Environment International</i> , 2020 , 143, 105939	12.9	12
24	The impact of manure and soil texture on antimicrobial resistance gene levels in farmlands and adjacent ditches. <i>Science of the Total Environment</i> , 2020 , 737, 139563	10.2	9
23	Do wastewater treatment plants increase antibiotic resistant bacteria or genes in the environment? Protocol for a systematic review. <i>Systematic Reviews</i> , 2019 , 8, 304	3	9
22	Annual dynamics of antimicrobials and resistance determinants in flocculent and aerobic granular sludge treatment systems. <i>Water Research</i> , 2021 , 190, 116752	12.5	9
21	A new extraction procedure to abate the burden of non-extractable antibiotic residues in manure. <i>Chemosphere</i> , 2019 , 224, 544-553	8.4	8
20	Effects of Dutch livestock production on human health and the environment. <i>Science of the Total Environment</i> , 2020 , 737, 139702	10.2	8
19	Updated research agenda for water, sanitation and antimicrobial resistance. <i>Journal of Water and Health</i> , 2020 , 18, 858-866	2.2	8
18	Occupational Exposure and Carriage of Antimicrobial Resistance Genes (tetW, ermB) in Pig Slaughterhouse Workers. <i>Annals of Work Exposures and Health</i> , 2020 , 64, 125-137	2.4	8
17	Targeted metagenomics reveals inferior resilience of farm soil resistome compared to soil microbiome after manure application. <i>Science of the Total Environment</i> , 2021 , 770, 145399	10.2	8
16	The potential of using E. coli as an indicator for the surveillance of antimicrobial resistance (AMR) in the environment. <i>Current Opinion in Microbiology</i> , 2021 , 64, 152-158	7.9	7
15	Quantitative assessment of soil functioning across a representative range of Dutch soils. <i>Ecological Indicators</i> , 2014 , 39, 88-93	5.8	5
14	Natural recreational waters and the risk that exposure to antibiotic resistant bacteria poses to human health. <i>Current Opinion in Microbiology</i> , 2021 , 65, 40-46	7.9	5
13	Recommendations on the environmental risk assessment of pharmaceuticals: Effect characterization. <i>Integrated Environmental Assessment and Management</i> , 2010 , 6 Suppl, 588-602	2.5	4

12	Antibiotika als Umweltkontaminanten Effekte auf Bodenbakterien. <i>Environmental Sciences Europe</i> , 2006 , 18, 110-118		4
11	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
10	Nationwide surveillance reveals frequent detection of carbapenemase-producing Enterobacterales in Dutch municipal wastewater. <i>Science of the Total Environment</i> , 2021 , 776, 145925	10.2	3
9	Indoor airborne microbiota composition associated with asthma and atopy in rural children 2018 ,		2
8	Ecological Risk Assessment of Pharmaceuticals in the Transboundary Vecht River (Germany and The Netherlands). <i>Environmental Toxicology and Chemistry</i> , 2021 ,	3.8	2
7	Association of antimicrobial usage with faecal abundance of aph(3 Φ -III, ermB, sul2 and tetW resistance genes in veal calves in three European countries. <i>International Journal of Antimicrobial Agents</i> , 2020 , 56, 106131	14.3	1
6	Effects of Clinical Wastewater on the Bacterial Community Structure from Sewage to the Environment. <i>Microorganisms</i> , 2021 , 9,	4.9	1
5	Cycling in degradation of organic polymers and uptake of nutrients by a litter-degrading fungus. <i>Environmental Microbiology</i> , 2021 , 23, 224-238	5.2	1
4	Temperature and Nutrient Limitations Decrease Transfer of Conjugative IncP-1 Plasmid pKJK5 to Wild Strains. <i>Frontiers in Microbiology</i> , 2021 , 12, 656250	5.7	1
3	Determinants for antimicrobial resistance genes in farm dust on 333 poultry and pig farms in nine European countries.. <i>Environmental Research</i> , 2022 , 208, 112715	7.9	0
2	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
1	Antibiotic Use During an Influenza Pandemic: Downstream Ecological Effects and Antibiotic Resistance 2011 , 503-537		