

# Elisabeth Grohmann

## List of Publications by Year in descending order

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87  
papers

3,821  
citations

101384

36  
h-index

133063

59  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugative Plasmid Transfer in Gram-Positive Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2003, 67, 277-301.	2.9	490
2	Type IV secretion in Gram-negative and Gram-positive bacteria. <i>Molecular Microbiology</i> , 2018, 107, 455-471.	1.2	271
3	Quantitative PCR Monitoring of Antibiotic Resistance Genes and Bacterial Pathogens in Three European Artificial Groundwater Recharge Systems. <i>Applied and Environmental Microbiology</i> , 2009, 75, 154-163.	1.4	160
4	Antibiotic resistant enterococci—Tales of a drug resistance gene trafficker. <i>International Journal of Medical Microbiology</i> , 2013, 303, 360-379.	1.5	139
5	Salmonella in surface and drinking water: Occurrence and water-mediated transmission. <i>Food Research International</i> , 2012, 45, 587-602.	2.9	138
6	Accumulation of Pharmaceuticals, Enterococcus, and Resistance Genes in Soils Irrigated with Wastewater for Zero to 100 Years in Central Mexico. <i>PLoS ONE</i> , 2012, 7, e45397.	1.1	108
7	Quantification of pathogenic microorganisms and microbial indicators in three wastewater reclamation and managed aquifer recharge facilities in Europe. <i>Science of the Total Environment</i> , 2010, 408, 4923-4930.	3.9	106
8	Plasmid-Mediated Bioaugmentation for the Bioremediation of Contaminated Soils. <i>Frontiers in Microbiology</i> , 2017, 8, 1966.	1.5	104
9	A Type IV-Secretion-Like System Is Required for Conjugative DNA Transport of Broad-Host-Range Plasmid pIP501 in Gram-Positive Bacteria. <i>Journal of Bacteriology</i> , 2007, 189, 2487-2496.	1.0	98
10	Analysis of the multimer resolution system encoded by the parCBA operon of broad-host-range plasmid RP4. <i>Molecular Microbiology</i> , 1994, 12, 131-141.	1.2	91
11	Microbial Monitoring of Crewed Habitats in Space—Current Status and Future Perspectives. <i>Microbes and Environments</i> , 2014, 29, 250-260.	0.7	89
12	Conjugative type IV secretion systems in Gram-positive bacteria. <i>Plasmid</i> , 2013, 70, 289-302.	0.4	88
13	Comparison of ccd of F, parDE of RP4, and parD of R1 using a novel conditional replication control system of plasmid R1. <i>Molecular Microbiology</i> , 1995, 17, 211-220.	1.2	84
14	Wastewater Irrigation Increases the Abundance of Potentially Harmful Gammaproteobacteria in Soils in Mezquital Valley, Mexico. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5282-5291.	1.4	80
15	Influence of biofilms on the water repellency of urban soil samples. <i>Hydrological Processes</i> , 2007, 21, 2276-2284.	1.1	77
16	Intergeneric transfer of the <i>Enterococcus faecalis</i> plasmid pIP501 to <i>Escherichia coli</i> and <i>Streptomyces lividans</i> and sequence analysis of its tra region. <i>Plasmid</i> , 2003, 50, 86-93.	0.4	75
17	Conjugation in Gram-Positive Bacteria. <i>Microbiology Spectrum</i> , 2014, 2, PLAS-0004-2013.	1.2	75
18	A new enzymatic method for the detachment of particle associated soil bacteria. <i>Journal of Microbiological Methods</i> , 2003, 55, 201-211.	0.7	71

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19	Comparison of Antibiotic Resistance, Biofilm Formation and Conjugative Transfer of Staphylococcus and Enterococcus Isolates from International Space Station and Antarctic Research Station Concordia. <i>Microbial Ecology</i> , 2013, 65, 638-651.	1.4	71
20	Biofilm-Forming Clinical Staphylococcus Isolates Harbor Horizontal Transfer and Antibiotic Resistance Genes. <i>Frontiers in Microbiology</i> , 2017, 8, 2018.	1.5	65
21	Anaerobic digestion of nitrogen rich poultry manure: Impact of thermophilic biogas process on metal release and microbial resistances. <i>Chemosphere</i> , 2017, 168, 1637-1647.	4.2	54
22	Biofilm Forming Antibiotic Resistant Gram-Positive Pathogens Isolated From Surfaces on the International Space Station. <i>Frontiers in Microbiology</i> , 2019, 10, 543.	1.5	52
23	TraG Encoded by the pIP501 Type IV Secretion System Is a Two-Domain Peptidoglycan-Degrading Enzyme Essential for Conjugative Transfer. <i>Journal of Bacteriology</i> , 2013, 195, 4436-4444.	1.0	51
24	The 2.5 Å... Structure of the Enterococcus Conjugation Protein TraM resembles VirB8 Type IV Secretion Proteins. <i>Journal of Biological Chemistry</i> , 2013, 288, 2018-2028.	1.6	50
25	<sup>1</sup> H NMR Relaxometry in Natural Humous Soil Samples: Insights in Microbial Effects on Relaxation Time Distributions. <i>Plant and Soil</i> , 2006, 280, 209-222.	1.8	47
26	Broad-host-range Inc18 plasmids: Occurrence, spread and transfer mechanisms. <i>Plasmid</i> , 2018, 99, 11-21.	0.4	46
27	The TraA relaxase autoregulates the putative type IV secretion-like system encoded by the broad-host-range <i>Streptococcus agalactiae</i> plasmid pIP501. <i>Microbiology (United Kingdom)</i> , 2006, 152, 637-645.	0.7	45
28	Polyphasic characterization of the bacterial community in an urban soil profile with in situ and culture-dependent methods. <i>Applied Soil Ecology</i> , 2006, 31, 267-279.	2.1	44
29	TraA and its N-terminal relaxase domain of the Gram-positive plasmid pIP501 show specific oriT binding and behave as dimers in solution. <i>Biochemical Journal</i> , 2005, 387, 401-409.	1.7	43
30	Effects of 100 years wastewater irrigation on resistance genes, class 1 integrons and IncP-1 plasmids in Mexican soil. <i>Frontiers in Microbiology</i> , 2015, 6, 163.	1.5	43
31	Detection of conjugative plasmids and antibiotic resistance genes in anthropogenic soils from Germany and India. <i>FEMS Microbiology Letters</i> , 2008, 279, 207-216.	0.7	42
32	Regulation of Gram-Positive Conjugation. <i>Frontiers in Microbiology</i> , 2019, 10, 1134.	1.5	41
33	Optimization of PCR-based methods for rapid detection of <i>Campylobacter jejuni</i> , <i>Campylobacter coli</i> and <i>Yersinia enterocolitica</i> serovar O:3 in wastewater samples. <i>Water Research</i> , 2004, 38, 1340-1346.	5.3	40
34	New antimicrobial contact catalyst killing antibiotic resistant clinical and waterborne pathogens. <i>Materials Science and Engineering C</i> , 2015, 50, 1-11.	3.8	40
35	Stress response of a clinical <i>Enterococcus faecalis</i> isolate subjected to a novel antimicrobial surface coating. <i>Microbiological Research</i> , 2018, 207, 53-64.	2.5	40
36	The tra Region of the Conjugative Plasmid pIP501 Is Organized in an Operon with the First Gene Encoding the Relaxase. <i>Journal of Bacteriology</i> , 2002, 184, 1801-1805.	1.0	38

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37	Molecular characterization of conjugative plasmids in pesticide tolerant and multi-resistant bacterial isolates from contaminated alluvial soil. <i>Chemosphere</i> , 2011, 84, 175-181.	4.2	37
38	A Novel Antimicrobial Coating Represses Biofilm and Virulence-Related Genes in Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 221.	1.5	37
39	Antimicrobials Functioning through ROS-Mediated Mechanisms: Current Insights. <i>Microorganisms</i> , 2022, 10, 61.	1.6	29
40	Bacterial soil communities affected by water-repellency. <i>Geoderma</i> , 2010, 158, 343-351.	2.3	28
41	Mobile genetic elements and antibiotic resistance in mine soil amended with organic wastes. <i>Science of the Total Environment</i> , 2018, 621, 725-733.	3.9	27
42	VirB8-like protein TraH is crucial for DNA transfer in <i>Enterococcus faecalis</i> . <i>Scientific Reports</i> , 2016, 6, 24643.	1.6	23
43	Long-term effects of aided phytostabilisation on microbial communities of metal-contaminated mine soil. <i>FEMS Microbiology Ecology</i> , 2017, 93, fiw252.	1.3	23
44	Multi-resistant biofilm-forming pathogens on the International Space Station. <i>Journal of Biosciences</i> , 2019, 44, 1.	0.5	22
45	Autonomous plasmid-like replication of <i>Bacillus</i> ICE <i>Bs1</i> : a general feature of integrative conjugative elements?. <i>Molecular Microbiology</i> , 2010, 75, 261-263.	1.2	20
46	Determination of specific DNA strand discontinuities with nucleotide resolution in exponentially growing bacteria harboring rolling circle-replicating plasmids. <i>FEMS Microbiology Letters</i> , 2006, 152, 363-369.	0.7	19
47	Green Fluorescent Protein-Labeled Monitoring Tool To Quantify Conjugative Plasmid Transfer between Gram-Positive and Gram-Negative Bacteria. <i>Applied and Environmental Microbiology</i> , 2012, 78, 895-899.	1.4	17
48	Expression of the <i>mobM</i> gene of the streptococcal plasmid pMV158 in <i>Lactococcus lactis</i> subsp. <i>lactis</i> . <i>FEMS Microbiology Letters</i> , 1999, 176, 403-410.	0.7	16
49	Expression of the <i>mobM</i> gene of the streptococcal plasmid pMV158 in <i>Lactococcus lactis</i> subsp. <i>lactis</i> . <i>FEMS Microbiology Letters</i> , 1999, 176, 403-410.	0.7	16
50	DNA-Binding Proteins Regulating pIP501 Transfer and Replication. <i>Frontiers in Molecular Biosciences</i> , 2016, 3, 42.	1.6	16
51	A Novel Role for D-Alanylation of Lipoteichoic Acid of <i>Enterococcus faecalis</i> in Urinary Tract Infection. <i>PLoS ONE</i> , 2014, 9, e107827.	1.1	15
52	The ParB protein encoded by the RP4 <i>par</i> region is a Ca <sup>2+</sup> -dependent nuclease linearizing circular DNA substrates. <i>Microbiology (United Kingdom)</i> , 1997, 143, 3889-3898.	0.7	14
53	Conjugative type IV secretion in Gram-positive pathogens: TraG, a lytic transglycosylase and endopeptidase, interacts with translocation channel protein TraM. <i>Plasmid</i> , 2017, 91, 9-18.	0.4	13
54	Stability of r-microbes: Stabilization of plasmid vectors by the partitioning function of broad-host-range plasmid RP4. <i>Journal of Biotechnology</i> , 1993, 28, 291-299.	1.9	11

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55	Structure of the double-stranded DNA-binding type IV secretion protein TraN from <i>Enterococcus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2376-2389.	2.5	11
56	Mechanisms of Conjugative Transfer and Type IV Secretion-Mediated Effector Transport in Gram-Positive Bacteria. <i>Current Topics in Microbiology and Immunology</i> , 2017, 413, 115-141.	0.7	11
57	<i>Enterococcus</i> adhesin PrgB facilitates type IV secretion by condensation of extracellular DNA. <i>Molecular Microbiology</i> , 2018, 109, 263-267.	1.2	11
58	TraN: A novel repressor of an <i>Enterococcus</i> conjugative type IV secretion system. <i>Nucleic Acids Research</i> , 2018, 46, 9201-9219.	6.5	11
59	Targeting Type IV Secretion System Proteins to Combat Multidrug-Resistant Gram-positive Pathogens. <i>Journal of Infectious Diseases</i> , 2017, 215, 1836-1845.	1.9	10
60	Multivalent Bacteria Binding by Flexible Polycationic Microsheets Matching Their Surface Charge Density. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902066.	1.9	10
61	Application of culture-independent methods to assess the bacteria removal efficiency of subsurface flow constructed wetlands. <i>Water Science and Technology</i> , 2007, 56, 217-222.	1.2	9
62	The type IV secretion protein TraK from the <i>Enterococcus</i> conjugative plasmid pIP501 exhibits a novel fold. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1124-1135.	2.5	9
63	Biofilm Formation by Environmental Bacteria. , 2012, , 341-377.		8
64	Transcriptomic analysis of stress response to novel antimicrobial coatings in a clinical MRSA strain. <i>Materials Science and Engineering C</i> , 2021, 119, 111578.	3.8	8
65	Thermophilic Composting of Human Feces: Development of Bacterial Community Composition and Antimicrobial Resistance Gene Pool. <i>Frontiers in Microbiology</i> , 2022, 13, 824834.	1.5	8
66	Conjugative Transfer of the Integrative and Conjugative Element ICE <i>Bs1</i> from <i>B</i> <i>acillus subtilis</i> Likely Initiates at the Donor Cell Pole. <i>Journal of Bacteriology</i> , 2010, 192, 23-25.	1.0	7
67	Evaluation of Plasmid Content and Tetracycline Resistance Conjugative Transfer in <i>Enterococcus italicus</i> Strains of Dairy Origin. <i>Current Microbiology</i> , 2009, 59, 261-266.	1.0	6
68	Horizontal Gene Transfer Between Bacteria Under Natural Conditions. , 2011, , 163-187.		6
69	Crystallization and first data collection of the putative transfer protein TraN from the Gram-positive conjugative plasmid pIP501. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1402-1405.	0.7	6
70	Crystallization and preliminary structure determination of the transfer protein TraM from the Gram-positive conjugative plasmid pIP501. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 178-183.	0.7	6
71	Metagenomic Insights Into the Changes of Antibiotic Resistance and Pathogenicity Factor Pools Upon Thermophilic Composting of Human Excreta. <i>Frontiers in Microbiology</i> , 2022, 13, 826071.	1.5	6
72	Multi-resistant biofilm-forming pathogens on the International Space Station. <i>Journal of Biosciences</i> , 2019, 44, .	0.5	5

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73	Environmental Protection Strategies: An Overview. , 2012, , 1-34.		4
74	Classifying mobile genetic elements and their interactions from sequence data: The importance of existing biological knowledge. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2104685118.	3.3	4
75	Horizontal Gene Transfer in Planktonic and Biofilm Modes. Springer Series on Biofilms, 2014, , 67-95.	0.0	4
76	Environmental Deterioration and Human Health: An Overview. , 2014, , 3-15.		4
77	Exogenous isolation of conjugative plasmids from pesticide contaminated soil. World Journal of Microbiology and Biotechnology, 2012, 28, 567-574.	1.7	3
78	Spread of Antibiotic Resistance in the Environment: Impact on Human Health. , 2014, , 125-162.		3
79	Novel Antimicrobial Cellulose Fleece Inhibits Growth of Human-Derived Biofilm-Forming Staphylococci During the SIRIUS19 Simulated Space Mission. Frontiers in Microbiology, 2020, 11, 1626.	1.5	3
80	Mating Cell-Cell Channels in Conjugating Bacteria. , 2006, , 21-35.		3
81	Conjugation Operons in Gram-Positive Bacteria with and without Antitermination Systems. Microorganisms, 2022, 10, 587.	1.6	2
82	Small Things Matter: The 11.6-kDa TraB Protein is Crucial for Antibiotic Resistance Transfer Among Enterococci. Frontiers in Molecular Biosciences, 2022, 9, 867136.	1.6	2
83	Molecular Detection of Resistance and Transfer Genes in Environmental Samples. , 2012, , 163-191.		1
84	Management of Microbial Resources in the Environment: A Broad Perspective. , 2013, , 1-15.		1
85	Problematic Groups of Multidrug-Resistant Bacteria and Their Resistance Mechanisms. , 2019, , 25-69.		1
86	Conjugative Plasmids in Anthropogenic Soils. , 2013, , 215-247.		0
87	Conjugation in Gram-Positive Bacteria. , 0, , 237-256.		0