Elisabeth Grohmann

List of Publications by Year
in descending order

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Version: 2024-02-01

88	3,821	101543	133252
papers	citations	36 h-index	59 g-index

95	95	95	4273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermophilic Composting of Human Feces: Development of Bacterial Community Composition and Antimicrobial Resistance Gene Pool. Frontiers in Microbiology, 2022, 13, 824834.	3.5	8
2	Metagenomic Insights Into the Changes of Antibiotic Resistance and Pathogenicity Factor Pools Upon Thermophilic Composting of Human Excreta. Frontiers in Microbiology, 2022, 13, 826071.	3.5	6
3	Conjugation Operons in Gram-Positive Bacteria with and without Antitermination Systems. Microorganisms, 2022, 10, 587.	3.6	2
4	Antimicrobials Functioning through ROS-Mediated Mechanisms: Current Insights. Microorganisms, 2022, 10, 61.	3.6	29
5	Small Things Matter: The 11.6-kDa TraB Protein is Crucial for Antibiotic Resistance Transfer Among Enterococci. Frontiers in Molecular Biosciences, 2022, 9, 867136.	3.5	2
6	Transcriptomic analysis of stress response to novel antimicrobial coatings in a clinical MRSA strain. Materials Science and Engineering C, 2021, 119, 111578.	7.3	8
7	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.	7.1	4
8	Novel Antimicrobial Cellulose Fleece Inhibits Growth of Human-Derived Biofilm-Forming Staphylococci During the SIRIUS19 Simulated Space Mission. Frontiers in Microbiology, 2020, 11, 1626.	3.5	3
9	Multivalent Bacteria Binding by Flexible Polycationic Microsheets Matching Their Surface Charge Density. Advanced Materials Interfaces, 2020, 7, 1902066.	3.7	10
10	Multi-resistant biofilm-forming pathogens on the International Space Station. Journal of Biosciences, 2019, 44, 1.	1.1	22
11	Regulation of Gram-Positive Conjugation. Frontiers in Microbiology, 2019, 10, 1134.	3.5	41
12	Biofilm Forming Antibiotic Resistant Gram-Positive Pathogens Isolated From Surfaces on the International Space Station. Frontiers in Microbiology, 2019, 10, 543.	3.5	52
13	Problematic Groups of Multidrug-Resistant Bacteria and Their Resistance Mechanisms. , 2019, , 25-69.		1
14	Multi-resistant biofilm-forming pathogens on the International Space Station. Journal of Biosciences, 2019, 44, .	1.1	5
15	Mobile genetic elements and antibiotic resistance in mine soil amended with organic wastes. Science of the Total Environment, 2018, 621, 725-733.	8.0	27
16	Stress response of a clinical Enterococcus faecalis isolate subjected to a novel antimicrobial surface coating. Microbiological Research, 2018, 207, 53-64.	5.3	40
17	Type IV secretion in Gramâ€negative and Gramâ€positive bacteria. Molecular Microbiology, 2018, 107, 455-471.	2.5	271
18	Broad-host-range Inc18 plasmids: Occurrence, spread and transfer mechanisms. Plasmid, 2018, 99, 11-21.	1.4	46

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19	Enterococcus adhesin PrgB facilitates type IV secretion by condensation of extracellular DNA. Molecular Microbiology, 2018, 109, 263-267.	2.5	11
20	TraN: A novel repressor of an Enterococcus conjugative type IV secretion system. Nucleic Acids Research, 2018, 46, 9201-9219.	14.5	11
21	A Novel Antimicrobial Coating Represses Biofilm and Virulence-Related Genes in Methicillin-Resistant Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 221.	3.5	37
22	Conjugative type IV secretion in Gram-positive pathogens: TraG, a lytic transglycosylase and endopeptidase, interacts with translocation channel protein TraM. Plasmid, 2017, 91, 9-18.	1.4	13
23	Anaerobic digestion of nitrogen rich poultry manure: Impact of thermophilic biogas process on metal release and microbial resistances. Chemosphere, 2017, 168, 1637-1647.	8.2	54
24	Long-term effects of aided phytostabilisation on microbial communities of metal-contaminated mine soil. FEMS Microbiology Ecology, 2017, 93, fiw252.	2.7	23
25	Targeting Type IV Secretion System Proteins to Combat Multidrug-Resistant Gram-positive Pathogens. Journal of Infectious Diseases, 2017, 215, 1836-1845.	4.0	10
26	Mechanisms of Conjugative Transfer and Type IV Secretion-Mediated Effector Transport in Gram-Positive Bacteria. Current Topics in Microbiology and Immunology, 2017, 413, 115-141.	1.1	11
27	Plasmid-Mediated Bioaugmentation for the Bioremediation of Contaminated Soils. Frontiers in Microbiology, 2017, 8, 1966.	3.5	104
28	Biofilm-Forming Clinical Staphylococcus Isolates Harbor Horizontal Transfer and Antibiotic Resistance Genes. Frontiers in Microbiology, 2017, 8, 2018.	3.5	65
29	DNA-Binding Proteins Regulating pIP501 Transfer and Replication. Frontiers in Molecular Biosciences, 2016, 3, 42.	3.5	16
30	VirB8-like protein TraH is crucial for DNA transfer in Enterococcus faecalis. Scientific Reports, 2016, 6, 24643.	3.3	23
31	New antimicrobial contact catalyst killing antibiotic resistant clinical and waterborne pathogens. Materials Science and Engineering C, 2015, 50, 1-11.	7.3	40
32	Effects of 100 years wastewater irrigation on resistance genes, class 1 integrons and IncP-1 plasmids in Mexican soil. Frontiers in Microbiology, 2015, 6, 163.	3.5	43
33	A Novel Role for D-Alanylation of Lipoteichoic Acid of Enterococcus faecalis in Urinary Tract Infection. PLoS ONE, 2014, 9, e107827.	2.5	15
34	Spread of Antibiotic Resistance in the Environment: Impact on Human Health. , 2014, , 125-162.		3
35	Wastewater Irrigation Increases the Abundance of Potentially Harmful Gammaproteobacteria in Soils in Mezquital Valley, Mexico. Applied and Environmental Microbiology, 2014, 80, 5282-5291.	3.1	80
36	Structure of the double-stranded DNA-binding type IV secretion protein TraN fromEnterococcus. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2376-2389.	2.5	11

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37	Conjugation in Gram-Positive Bacteria. Microbiology Spectrum, 2014, 2, PLAS-0004-2013.	3.0	75
38	Microbial Monitoring of Crewed Habitats in Spaceâ€"Current Status and Future Perspectives. Microbes and Environments, 2014, 29, 250-260.	1.6	89
39	Horizontal Gene Transfer in Planktonic and Biofilm Modes. Springer Series on Biofilms, 2014, , 67-95.	0.1	4
40	Environmental Deterioration and Human Health: An Overview. , 2014, , 3-15.		4
41	The type IV secretion protein TraK from theEnterococcusconjugative plasmid pIP501 exhibits a novel fold. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1124-1135.	2.5	9
42	Conjugative type IV secretion systems in Gram-positive bacteria. Plasmid, 2013, 70, 289-302.	1.4	88
43	Conjugative Plasmids in Anthropogenic Soils. , 2013, , 215-247.		0
44	Management of Microbial Resources in the Environment: A Broad Perspective. , 2013, , 1-15.		1
45	Comparison of Antibiotic Resistance, Biofilm Formation and Conjugative Transfer of Staphylococcus and Enterococcus Isolates from International Space Station and Antarctic Research Station Concordia. Microbial Ecology, 2013, 65, 638-651.	2.8	71
46	Antibiotic resistant enterococciâ€"Tales of a drug resistance gene trafficker. International Journal of Medical Microbiology, 2013, 303, 360-379.	3.6	139
47	Crystallization and preliminary structure determination of the transfer protein TraM from the Gram-positive conjugative plasmid pIP501. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 178-183.	0.7	6
48	TraG Encoded by the pIP501 Type IV Secretion System Is a Two-Domain Peptidoglycan-Degrading Enzyme Essential for Conjugative Transfer. Journal of Bacteriology, 2013, 195, 4436-4444.	2.2	51
49	The 2.5 Ã… Structure of the Enterococcus Conjugation Protein TraM resembles VirB8 Type IV Secretion Proteins. Journal of Biological Chemistry, 2013, 288, 2018-2028.	3.4	50
50	Green Fluorescent Protein-Labeled Monitoring Tool To Quantify Conjugative Plasmid Transfer between Gram-Positive and Gram-Negative Bacteria. Applied and Environmental Microbiology, 2012, 78, 895-899.	3.1	17
51	Environmental Protection Strategies: An Overview. , 2012, , 1-34.		4
52	Salmonella in surface and drinking water: Occurrence and water-mediated transmission. Food Research International, 2012, 45, 587-602.	6.2	138
53	Molecular Detection of Resistance and Transfer Genes in Environmental Samples. , 2012, , 163-191.		1
54	Biofilm Formation by Environmental Bacteria. , 2012, , 341-377.		8

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55	Crystallization and first data collection of the putative transfer protein TraN from the Gram-positive conjugative plasmid pIP501. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1402-1405.	0.7	6
56	Accumulation of Pharmaceuticals, Enterococcus, and Resistance Genes in Soils Irrigated with Wastewater for Zero to 100 Years in Central Mexico. PLoS ONE, 2012, 7, e45397.	2.5	108
57	Exogenous isolation of conjugative plasmids from pesticide contaminated soil. World Journal of Microbiology and Biotechnology, 2012, 28, 567-574.	3.6	3
58	Horizontal Gene Transfer Between Bacteria Under Natural Conditions. , 2011, , 163-187.		6
59	Molecular characterization of conjugative plasmids in pesticide tolerant and multi-resistant bacterial isolates from contaminated alluvial soil. Chemosphere, 2011, 84, 175-181.	8.2	37
60	Quantification of pathogenic microorganisms and microbial indicators in three wastewater reclamation and managed aquifer recharge facilities in Europe. Science of the Total Environment, 2010, 408, 4923-4930.	8.0	106
61	Autonomous plasmidâ€like replication of Bacillus ICEBs1: a general feature of integrative conjugative elements?. Molecular Microbiology, 2010, 75, 261-263.	2.5	20
62	Conjugative Transfer of the Integrative and Conjugative Element ICE Bs1 from B acillus subtilis Likely Initiates at the Donor Cell Pole. Journal of Bacteriology, 2010, 192, 23-25.	2.2	7
63	Bacterial soil communities affected by water-repellency. Geoderma, 2010, 158, 343-351.	5.1	28
64	Quantitative PCR Monitoring of Antibiotic Resistance Genes and Bacterial Pathogens in Three European Artificial Groundwater Recharge Systems. Applied and Environmental Microbiology, 2009, 75, 154-163.	3.1	160
65	Evaluation of Plasmid Content and Tetracycline Resistance Conjugative Transfer in Enterococcus italicus Strains of Dairy Origin. Current Microbiology, 2009, 59, 261-266.	2.2	6
66	Detection of conjugative plasmids and antibiotic resistance genes in anthropogenic soils from Germany and India. FEMS Microbiology Letters, 2008, 279, 207-216.	1.8	42
67	A Type IV-Secretion-Like System Is Required for Conjugative DNA Transport of Broad-Host-Range Plasmid pIP501 in Gram-Positive Bacteria. Journal of Bacteriology, 2007, 189, 2487-2496.	2.2	98
68	Influence of biofilms on the water repellency of urban soil samples. Hydrological Processes, 2007, 21, 2276-2284.	2.6	77
69	Application of culture-independent methods to assess the bacteria removal efficiency of subsurface flow constructed wetlands. Water Science and Technology, 2007, 56, 217-222.	2.5	9
70	Polyphasic characterization of the bacterial community in an urban soil profile with in situ and culture-dependent methods. Applied Soil Ecology, 2006, 31, 267-279.	4.3	44
71	Determination of specific DNA strand discontinuities with nucleotide resolution in exponentionally growing bacteria harboring rolling circle-replicating plasmids. FEMS Microbiology Letters, 2006, 152, 363-369.	1.8	19
72	1H NMR Relaxometry in Natural Humous Soil Samples: Insights in Microbial Effects on Relaxation Time Distributions. Plant and Soil, 2006, 280, 209-222.	3.7	47

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73	The TraA relaxase autoregulates the putative type IV secretion-like system encoded by the broad-host-range Streptococcus agalactiae plasmid pIP501. Microbiology (United Kingdom), 2006, 152, 637-645.	1.8	45
74	Mating Cell-Cell Channels in Conjugating Bacteria. , 2006, , 21-35.		3
75	TraA and its N-terminal relaxase domain of the Gram-positive plasmid pIP501 show specific oriT binding and behave as dimers in solution. Biochemical Journal, 2005, 387, 401-409.	3.7	43
76	Optimization of PCR-based methods for rapid detection of Campylobacter jejuni, Campylobacter coli and Yersinia enterocolitica serovar 0:3 in wastewater samples. Water Research, 2004, 38, 1340-1346.	11.3	40
77	Intergeneric transfer of the Enterococcus faecalis plasmid pIP501 to Escherichia coli and Streptomyces lividans and sequence analysis of its tra region. Plasmid, 2003, 50, 86-93.	1.4	75
78	A new enzymatic method for the detachment of particle associated soil bacteria. Journal of Microbiological Methods, 2003, 55, 201-211.	1.6	71
79	Conjugative Plasmid Transfer in Gram-Positive Bacteria. Microbiology and Molecular Biology Reviews, 2003, 67, 277-301.	6.6	490
80	The tra Region of the Conjugative Plasmid pIP501 Is Organized in an Operon with the First Gene Encoding the Relaxase. Journal of Bacteriology, 2002, 184, 1801-1805.	2.2	38
81	Expression of themobMgene of the streptococcal plasmid pMV158 inLactococcus lactissubsp.lactis. FEMS Microbiology Letters, 1999, 176, 403-410.	1.8	16
82	Expression of the mobM gene of the streptococcal plasmid pMV158 in Lactococcus lactis subsp. lactis. FEMS Microbiology Letters, 1999, 176, 403-410.	1.8	16
83	The ParB protein encoded by the RP4 par region is a Ca2+-dependent nuclease linearizing circular DNA substrates. Microbiology (United Kingdom), 1997, 143, 3889-3898.	1.8	14
84	Determination of specific DNA strand discontinuities with nucleotide resolution in exponentionally growing bacteria harboring rolling circle-replicating plasmids. FEMS Microbiology Letters, 1997, 152, 363-369.	1.8	2
85	Comparison of ccd of F, parDE of RP4, and parD of R1 using a novel conditional replication control system of plasmid R1. Molecular Microbiology, 1995, 17, 211-220.	2.5	84
86	Analysis of the multimer resolution system encoded by the parCBA operon of broadâ€hostâ€range plasmid RP4. Molecular Microbiology, 1994, 12, 131-141.	2.5	91
87	Stability of r-microbes: Stabilization of plasmid vectors by the partitioning function of broad-host-range plasmid RP4. Journal of Biotechnology, 1993, 28, 291-299.	3.8	11
88	Conjugation in Gram-Positive Bacteria. , 0, , 237-256.		0