Gregor Grass

List of Publications by Year
in descending order

91 papers	8,785 citations	57758 44 h-index	46799 89 g-index
92 all docs	92 docs citations	92 times ranked	8338 citing authors

#	Article	IF	Citations
1	Metallic Copper as an Antimicrobial Surface. Applied and Environmental Microbiology, 2011, 77, 1541-1547.	3.1	1,205
2	Escherichia colimechanisms of copper homeostasis in a changing environment. FEMS Microbiology Reviews, 2003, 27, 197-213.	8.6	608
3	Molecular Analysis of the Copper-Transporting Efflux System CusCFBA of <i>Escherichia coli</i>. Journal of Bacteriology, 2003, 185, 3804-3812.	2.2	462
4	Bacterial Killing by Dry Metallic Copper Surfaces. Applied and Environmental Microbiology, 2011, 77, 794-802.	3.1	421
5	Copper toxicity and the origin of bacterial resistanceâ€”new insights and applications. Metallomics, 2011, 3, 1109.	2.4	297
6	Crystal structure and electron transfer kinetics of CueO, a multicopper oxidase required for copper homeostasis in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2766-2771.	7.1	296
7	CueO Is a Multi-copper Oxidase That Confers Copper Tolerance in Escherichia coli. Biochemical and Biophysical Research Communications, 2001, 286, 902-908.	2.1	292
8	Mechanisms of gold biomineralization in the bacterium <i>Cupriavidus metallidurans</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17757-17762.	7.1	283
9	Contribution of Copper Ion Resistance to Survival of <i>Escherichia coli</i> on Metallic Copper Surfaces. Applied and Environmental Microbiology, 2008, 74, 977-986.	3.1	253
10	Genes Involved in Copper Homeostasis in <i>Escherichia coli</i>. Journal of Bacteriology, 2001, 183, 2145-2147.	2.2	206
11	FieF (YiiP) from Escherichia coli mediates decreased cellular accumulation of iron and relieves iron stress. Archives of Microbiology, 2005, 183, 9-18.	2.2	205
12	The Metal Permease ZupT from Escherichia coli Is a Transporter with a Broad Substrate Spectrum. Journal of Bacteriology, 2005, 187, 1604-1611.	2.2	196
13	The product of the ybdE gene of the Escherichia coli chromosome is involved in detoxification of silver ions. Microbiology (United Kingdom), 2001, 147, 965-972.	1.8	177
14	Cuprous Oxidase Activity of CueO from Escherichia coli. Journal of Bacteriology, 2004, 186, 7815-7817.	2.2	172
15	ZupT Is a Zn(II) Uptake System in <i>Escherichia coli</i>. Journal of Bacteriology, 2002, 184, 864-866.	2.2	165
16	Survival of bacteria on metallic copper surfaces in a hospital trial. Applied Microbiology and Biotechnology, 2010, 87, 1875-1879.	3.6	160
17	ZitB (YbgR), a Member of the Cation Diffusion Facilitator Family, Is an Additional Zinc Transporter in Escherichia coli. Journal of Bacteriology, 2001, 183, 4664-4667.	2.2	154
18	Mechanisms of Contact-Mediated Killing of Yeast Cells on Dry Metallic Copper Surfaces. Applied and Environmental Microbiology, 2011, 77, 416-426.	3.1	148

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19	Antimicrobial metallic copper surfaces kill <i>Staphylococcus haemolyticus</i> via membrane damage. MicrobiologyOpen, 2012, 1, 46-52.	3.0	148
20	TolC Is Involved in Enterobactin Efflux across the Outer Membrane of Escherichia coli. Journal of Bacteriology, 2005, 187, 6701-6707.	2.2	140
21	A Labile Regulatory Copper Ion Lies Near the T1 Copper Site in the Multicopper Oxidase CueO. Journal of Biological Chemistry, 2003, 278, 31958-31963.	3.4	138
22	Isolation and Characterization of Bacteria Resistant to Metallic Copper Surfaces. Applied and Environmental Microbiology, 2010, 76, 1341-1348.	3.1	132
23	A new ferrous iron-uptake transporter, EfeU (YcdN), from Escherichia coli. Molecular Microbiology, 2006, 62, 120-131.	2.5	131
24	Regulation of the <i>cnr</i> Cobalt and Nickel Resistance Determinant from <i>Ralstonia</i> sp. Strain CH34. Journal of Bacteriology, 2000, 182, 1390-1398.	2.2	126
25	The Chromosomally Encoded Cation Diffusion Facilitator Proteins DmeF and FieF from <i>Wautersia metallidurans</i> CH34 Are Transporters of Broad Metal Specificity. Journal of Bacteriology, 2004, 186, 8036-8043.	2.2	121
26	Characteristics of Zinc Transport by Two Bacterial Cation Diffusion Facilitators from Ralstonia metallidurans CH34 and Escherichia coli. Journal of Bacteriology, 2004, 186, 7499-7507.	2.2	119
27	Interplay of the Czc System and Two P-Type ATPases in Conferring Metal Resistance to <i>Ralstonia metallidurans</i>. Journal of Bacteriology, 2003, 185, 4354-4361.	2.2	117
28	Linkage between Catecholate Siderophores and the Multicopper Oxidase CueO in <i>Escherichia coli</i>. Journal of Bacteriology, 2004, 186, 5826-5833.	2.2	116
29	New developments in the understanding of the cation diffusion facilitator family. Journal of Industrial Microbiology and Biotechnology, 2005, 32, 215-226.	3.0	112
30	Role of the Extracytoplasmic Function Protein Family Sigma Factor RpoE in Metal Resistance of <i>Escherichia coli</i>. Journal of Bacteriology, 2005, 187, 2297-2307.	2.2	111
31	The Pco proteins are involved in periplasmic copper handling in Escherichia coli. Biochemical and Biophysical Research Communications, 2002, 295, 616-620.	2.1	110
32	NreB from Achromobacter xylosoxidans 31A Is a Nickel-Induced Transporter Conferring Nickel Resistance. Journal of Bacteriology, 2001, 183, 2803-2807.	2.2	93
33	Crystal Structures of Multicopper Oxidase CueO Bound to Copper(I) and Silver(I). Journal of Biological Chemistry, 2011, 286, 37849-37857.	3.4	85
34	Functional analysis of theEscherichia colizinc transporter ZitB. FEMS Microbiology Letters, 2002, 215, 273-278.	1.8	63
35	The RcnRA (YohLM) system of Escherichia coli: A connection between nickel, cobalt and iron homeostasis. BioMetals, 2007, 20, 759-771.	4.1	60
36	Point mutations change specificity and kinetics of metal uptake by ZupT from Escherichia coli. BioMetals, 2010, 23, 643-656.	4.1	58

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37	Contributions of Five Secondary Metal Uptake Systems to Metal Homeostasis of Cupriavidus metallidurans CH34. Journal of Bacteriology, 2011, 193, 4652-4663.	2.2	58
38	Control of Expression of a Periplasmic Nickel Efflux Pump by Periplasmic Nickel Concentrations. BioMetals, 2005, 18, 437-448.	4.1	57
39	Iron Transport in Escherichia Coli: All has not been said and Done. BioMetals, 2006, 19, 159-172.	4.1	56
40	Low-temperature ZnO atomic layer deposition on biotemplates: flexible photocatalytic ZnO structures from eggshell membranes. Physical Chemistry Chemical Physics, 2009, 11, 3608.	2.8	56
41	Escherichia coli CopA N-Terminal Cys(X)2Cys Motifs Are Not Required for Copper Resistance or Transport. Biochemical and Biophysical Research Communications, 2001, 286, 414-418.	2.1	53
42	Sulphate assimilation under Cd2+ stress in Physcomitrella patens â€" combined transcript, enzyme and metabolite profiling. Plant, Cell and Environment, 2006, 29, 1801-1811.	5.7	52
43	A robust metallo-oxidase from the hyperthermophilic bacterium Aquifex aeolicus. FEBS Journal, 2007, 274, 2683-2694.	4.7	51
44	Inactivation of bacterial and viral biothreat agents on metallic copper surfaces. BioMetals, 2014, 27, 1179-1189.	4.1	50
45	Quantitative proteomic profiling of the Escherichia coli response to metallic copper surfaces. BioMetals, 2011, 24, 429-444.	4.1	44
46	Camelysin Is a Novel Surface Metalloproteinase from Bacillus cereus. Infection and Immunity, 2004, 72, 219-228.	2.2	40
47	Injectional Anthrax in Heroin Users, Europe, 2000â€"2012. Emerging Infectious Diseases, 2014, 20, 322-323.	4.3	40
48	Characterization of a Dipartite Iron Uptake System from Uropathogenic Escherichia coli Strain F11. Journal of Biological Chemistry, 2011, 286, 25317-25330.	3.4	34
49	Real-time PCR quantification of a green fluorescent protein-labeled, genetically engineeredPseudomonas putidastrain during 2-chlorobenzoate degradation in soil. FEMS Microbiology Letters, 2004, 233, 307-314.	1.8	33
50	Roseomonas pecuniae sp. nov., isolated from the surface of a copper-alloy coin. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 610-615.	1.7	32
51	Microevolution of Anthrax from a Young Ancestor (M.A.Y.A.) Suggests a Soil-Borne Life Cycle of Bacillus anthracis. PLoS ONE, 2015, 10, e0135346.	2.5	32
52	Improved Discrimination of Bacillus anthracis from Closely Related Species in the <i>Bacillus cereus Sensu Lato</i> Group Based on Matrix-Assisted Laser Desorption Ionizationâ€"Time of Flight Mass Spectrometry. Journal of Clinical Microbiology, 2018, 56, .	3.9	30
53	Sandwich Hybridization Assay for Sensitive Detection of Dynamic Changes in mRNA Transcript Levels in Crude Escherichia coli Cell Extracts in Response to Copper Ions. Applied and Environmental Microbiology, 2008, 74, 7463-7470.	3.1	28
54	Whole Genome Analysis of Injectional Anthrax Identifies Two Disease Clusters Spanning More Than 13 Years. EBioMedicine, 2015, 2, 1613-1618.	6.1	27

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55	The Dps protein of Escherichia coli is involved in copper homeostasis. Microbiological Research, 2010, 165, 108-115.	5.3	26
56	Fatal anthrax infection in a heroin user from southern Germany, June 2012. Eurosurveillance, 2012, 17, .	7.0	26
57	Draft Genome Sequence of Serratia sp. Strain M24T3, Isolated from Pinewood Disease Nematode Bursaphelenchus xylophilus. Journal of Bacteriology, 2012, 194, 3764-3764.	2.2	25
58	Injection Anthrax. Deutsches Ärzteblatt International, 2012, 109, 843-8.	0.9	23
59	Genome Sequence of the Moderately Halotolerant, Arsenite-Oxidizing Bacterium Pseudomonas stutzeri TS44. Journal of Bacteriology, 2012, 194, 4473-4474.	2.2	22
60	Turning a Hyperthermostable Metallo-Oxidase into a Laccase by Directed Evolution. ACS Catalysis, 2015, 5, 4932-4941.	11.2	19
61	Specific Detection of Yersinia pestis Based on Receptor Binding Proteins of Phages. Pathogens, 2020, 9, 611.	2.8	17
62	Metal toxicity. Metallomics, 2011, 3, 1095.	2.4	16
63	Genotyping and phylogenetic placement of Bacillus anthracis isolates from Finland, a country with rare anthrax cases. BMC Microbiology, 2018, 18, 102.	3.3	16
64	A Whole-Cell Biosensor for the Detection of Gold. PLoS ONE, 2013, 8, e69292.	2.5	14
65	Draft Genome Sequence of Bacillus anthracis UR-1, Isolated from a German Heroin User. Journal of Bacteriology, 2012, 194, 5997-5998.	2.2	12
66	Draft Genome Sequence of Bacillus anthracis BF-1, Isolated from Bavarian Cattle. Journal of Bacteriology, 2012, 194, 6360-6361.	2.2	11
67	Real-time PCR quantification of a green fluorescent protein-labeled, genetically engineered Pseudomonas putida strain during 2-chlorobenzoate degradation in soil. FEMS Microbiology Letters, 2004, 233, 307-314.	1.8	11
68	Genome Sequence of <i>Bacillus anthracis</i> Strain Stendal, Isolated from an Anthrax Outbreak in Cattle in Germany. Genome Announcements, 2016, 4, .	0.8	10
69	Genome Sequence of Bacillus pumilus Strain Bonn, Isolated from an Anthrax-Like Necrotic Skin Infection Site of a Child. Genome Announcements, 2016, 4, .	0.8	9
70	Draft Genome Sequence of Pseudomonas sp. Strain M47T1, Carried by Bursaphelenchus xylophilus Isolated from Pinus pinaster. Journal of Bacteriology, 2012, 194, 4789-4790.	2.2	8
71	Draft Genome Sequence of Pseudomonas psychrotolerans L19, Isolated from Copper Alloy Coins. Journal of Bacteriology, 2012, 194, 1623-1624.	2.2	8
72	Ultrasensitive Detection of Bacillus anthracis by Real-Time PCR Targeting a Polymorphism in Multi-Copy 16S rRNA Genes and Their Transcripts. International Journal of Molecular Sciences, 2021, 22, 12224.	4.1	8

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73	Enzyme-Linked Phage Receptor Binding Protein Assays (ELPRA) Enable Identification of Bacillus anthracis Colonies. Viruses, 2021, 13, 1462.	3.3	7
74	Isolation and whole genome analysis of endospore-forming bacteria from heroin. Forensic Science International: Genetics, 2018, 32, 1-6.	3.1	6
75	The identification of novel single nucleotide polymorphisms to assist in mapping the spread of Bacillus anthracis across the Southern Caucasus. Scientific Reports, 2018, 8, 11254.	3.3	6
76	Unexpected genomic relationships between Bacillus anthracis strains from Bangladesh and Central Europe. Infection, Genetics and Evolution, 2016, 45, 66-74.	2.3	5
77	Colonization resistance against genetically modifiedEscherichia coliK12 (W3110) strains is abrogated following broad-spectrum antibiotic treatment and acute ileitis. European Journal of Microbiology and Immunology, 2013, 3, 222-228.	2.8	4
78	Detection and Isolation of Emetic Bacillus cereus Toxin Cereulide by Reversed Phase Chromatography. Toxins, 2021, 13, 115.	3.4	4
79	Technical Note: Simple, scalable, and sensitive protocol for retrieving Bacillus anthracis (and other) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	3
80	Impact of metal ion homeostasis of genetically modifiedEscherichia coliNissle 1917 and K12 (W3110) strains on colonization properties in the murine intestinal tract. European Journal of Microbiology and Immunology, 2013, 3, 229-235.	2.8	2
81	Draft Genome Sequences of Two Bulgarian Bacillus anthracis Strains. Genome Announcements, 2013, 1, e0015213.	0.8	2
82	Restoration of growth by manganese in a mutant strain of Escherichia coli lacking most known iron and manganese uptake systems. BioMetals, 2016, 29, 433-450.	4.1	2
83	Genome Sequence of Historical Bacillus anthracis Strain Tyrol 4675 Isolated from a Bovine Anthrax Case in Austria. Genome Announcements, 2017, 5, .	0.8	2
84	In-Depth Analysis of Bacillus anthracis 16S rRNA Genes and Transcripts Reveals Intra- and Intergenomic Diversity and Facilitates Anthrax Detection. MSystems, 2022, 7, e0136121.	3.8	2
85	Reoccurring Bovine Anthrax in Germany on the Same Pasture after 12 Years. Journal of Clinical Microbiology, 2022, 60, jcm0229121.	3.9	2
86	Draft Genome Sequence of Strain BF-4, a <i>Lysinibacillus</i> -Like Bacillus Isolated during an Anthrax Outbreak in Bavaria. Genome Announcements, 2014, 2, .	0.8	1
87	Genome Sequence of Bacillus anthracis Isolated from an Anthrax Burial Site in Pollino National Park, Basilicata Region (Southern Italy). Genome Announcements, 2015, 3, .	0.8	1
88	Genome Sequence of <i>Bacillus anthracis</i> Strain Tangail-1 from Bangladesh. Genome Announcements, 2016, 4, .	0.8	1
89	Functional analysis of the Escherichia coli zinc transporter ZitB. FEMS Microbiology Letters, 2002, 215, 273-278.	1.8	1
90	Genome Sequence of Bacillus anthracis Larissa, Associated with a Case of Cutaneous Anthrax in Greece. Genome Announcements, 2015, 3, .	0.8	0

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91	Genome Sequence of Bacillus safensis Strain Ingolstadt Isolated from the Pectoralis Pouch of a Patient with Defibrillator-Related Surgery. Genome Announcements, 2017, 5, .	0.8	0