

Jan Roelof van der Meer

List of Publications by Year in descending order

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202
papers

13,093
citations

23567

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249
docs citations

249
times ranked

11362
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic islands: tools of bacterial horizontal gene transfer and evolution. <i>FEMS Microbiology Reviews</i> , 2009, 33, 376-393.	8.6	817
2	Challenges in microbial ecology: building predictive understanding of community function and dynamics. <i>ISME Journal</i> , 2016, 10, 2557-2568.	9.8	570
3	Enrichment and characterization of an anammox bacterium from a rotating biological contactor treating ammonium-rich leachate. <i>Archives of Microbiology</i> , 2001, 175, 198-207.	2.2	516
4	Where microbiology meets microengineering: design and applications of reporter bacteria. <i>Nature Reviews Microbiology</i> , 2010, 8, 511-522.	28.6	466
5	Enrichment, Phylogenetic Analysis and Detection of a Bacterium That Performs Enhanced Biological Phosphate Removal in Activated Sludge. <i>Systematic and Applied Microbiology</i> , 1999, 22, 454-465.	2.8	358
6	Bacterial Transcriptional Regulators for Degradation Pathways of Aromatic Compounds. <i>Microbiology and Molecular Biology Reviews</i> , 2004, 68, 474-500.	6.6	350
7	Characterization of the <i>Lactococcus lactis</i> nisin A operon genes <i>nisP</i> , encoding a subtilisin-like serine protease involved in precursor processing, and <i>nisR</i> , encoding a regulatory protein involved in nisin biosynthesis. <i>Journal of Bacteriology</i> , 1993, 175, 2578-2588.	2.2	305
8	Development of a Set of Simple Bacterial Biosensors for Quantitative and Rapid Measurements of Arsenite and Arsenate in Potable Water. <i>Environmental Science & Technology</i> , 2003, 37, 4743-4750.	10.0	301
9	Dynamics of denitrification activity of <i>Paracoccus denitrificans</i> in continuous culture during aerobic-anaerobic changes. <i>Journal of Bacteriology</i> , 1996, 178, 4367-4374.	2.2	220
10	Characterisation of microbial communities colonising the hyphal surfaces of arbuscular mycorrhizal fungi. <i>ISME Journal</i> , 2010, 4, 752-763.	9.8	215
11	Maturation pathway of nisin and other lantibiotics: post-translationally modified antimicrobial peptides exported by Gram-positive bacteria. <i>Molecular Microbiology</i> , 1995, 17, 427-437.	2.5	194
12	Whole-cell living biosensors—are they ready for environmental application?. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 273-280.	3.6	192
13	Development and characterization of a whole-cell bioluminescent sensor for bioavailable middle-chain alkanes in contaminated groundwater samples. <i>Applied and Environmental Microbiology</i> , 1997, 63, 4053-4060.	3.1	186
14	Cloning and characterization of plasmid-encoded genes for the degradation of 1,2-dichloro-, 1,4-dichloro-, and 1,2,4-trichlorobenzene of <i>Pseudomonas</i> sp. strain P51. <i>Journal of Bacteriology</i> , 1991, 173, 6-15.	2.2	183
15	Sequence analysis of the <i>Pseudomonas</i> sp. strain P51 <i>tcb</i> gene cluster, which encodes metabolism of chlorinated catechols: evidence for specialization of catechol 1,2-dioxygenases for chlorinated substrates. <i>Journal of Bacteriology</i> , 1991, 173, 2425-2434.	2.2	181
16	The hidden life of integrative and conjugative elements. <i>FEMS Microbiology Reviews</i> , 2017, 41, 512-537.	8.6	180
17	Cloning and Characterization of <i>lin</i> Genes Responsible for the Degradation of Hexachlorocyclohexane Isomers by <i>Sphingomonas paucimobilis</i> Strain B90. <i>Applied and Environmental Microbiology</i> , 2002, 68, 6021-6028.	3.1	173
18	The <i>clc</i> Element of <i>Pseudomonas</i> sp. Strain B13, a Genomic Island with Various Catabolic Properties. <i>Journal of Bacteriology</i> , 2006, 188, 1999-2013.	2.2	153

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19	Illuminating the detection chain of bacterial bioreporters. <i>Environmental Microbiology</i> , 2004, 6, 1005-1020.	3.8	149
20	Bacterial Bioassay for Rapid and Accurate Analysis of Arsenic in Highly Variable Groundwater Samples. <i>Environmental Science & Technology</i> , 2005, 39, 7625-7630.	10.0	149
21	Genomic islands and the evolution of catabolic pathways in bacteria. <i>Current Opinion in Biotechnology</i> , 2003, 14, 248-254.	6.6	147
22	Chromosomal Integration, Tandem Amplification, and Deamplification in <i>Pseudomonas putida</i> F1 of a 105-Kilobase Genetic Element Containing the Chlorocatechol Degradative Genes from <i>Pseudomonas</i> sp. Strain B13. <i>Journal of Bacteriology</i> , 1998, 180, 4360-4369.	2.2	139
23	Organization of lin Genes and IS 6100 among Different Strains of Hexachlorocyclohexane-Degrading <i>Sphingomonas paucimobilis</i> : Evidence for Horizontal Gene Transfer. <i>Journal of Bacteriology</i> , 2004, 186, 2225-2235.	2.2	138
24	Use of flow cytometric methods for single-cell analysis in environmental microbiology. <i>Current Opinion in Microbiology</i> , 2008, 11, 205-212.	5.1	136
25	Identification of a novel composite transposable element, Tn5280, carrying chlorobenzene dioxygenase genes of <i>Pseudomonas</i> sp. strain P51. <i>Journal of Bacteriology</i> , 1991, 173, 7077-7083.	2.2	130
26	Evolution of a Pathway for Chlorobenzene Metabolism Leads to Natural Attenuation in Contaminated Groundwater. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4185-4193.	3.1	130
27	Analytics with engineered bacterial bioreporter strains and systems. <i>Current Opinion in Biotechnology</i> , 2006, 17, 1-3.	6.6	128
28	Community-wide plasmid gene mobilization and selection. <i>ISME Journal</i> , 2013, 7, 1173-1186.	9.8	124
29	The Broad Substrate Chlorobenzene Dioxygenase and cis-Chlorobenzene Dihydrodiol Dehydrogenase of <i>Pseudomonas</i> sp. Strain P51 Are Linked Evolutionarily to the Enzymes for Benzene and Toluene Degradation. <i>Journal of Biological Chemistry</i> , 1996, 271, 4009-4016.	3.4	122
30	Community Analysis of Ammonia and Nitrite Oxidizers during Start-Up of Nitrification Reactors. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3213-3222.	3.1	122
31	Immediate ecotoxicological effects of short-lived oil spills on marine biota. <i>Nature Communications</i> , 2016, 7, 11206.	12.8	120
32	Characterization of a Second <i>tfd</i> Gene Cluster for Chlorophenol and Chlorocatechol Metabolism on Plasmid pJP4 in <i>Ralstonia eutropha</i> JMP134(pJP4). <i>Journal of Bacteriology</i> , 2000, 182, 4165-4172.	2.2	116
33	Prospects for harnessing biocide resistance for bioremediation and detoxification. <i>Science</i> , 2018, 360, 743-746.	12.6	114
34	Int-B13, an Unusual Site-Specific Recombinase of the Bacteriophage P4 Integrase Family, Is Responsible for Chromosomal Insertion of the 105-Kilobase <i>clc</i> Element of <i>Pseudomonas</i> sp. Strain B13. <i>Journal of Bacteriology</i> , 1998, 180, 5505-5514.	2.2	109
35	Evolution of novel metabolic pathways for the degradation of chloroaromatic compounds. , 1997, 71, 159-178.		100
36	The urgent need for microbiology literacy in society. <i>Environmental Microbiology</i> , 2019, 21, 1513-1528.	3.8	99

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37	The <i>tfdK</i> Gene Product Facilitates Uptake of 2,4-Dichlorophenoxyacetate by <i>Ralstonia eutropha</i> JMP134(pJP4). <i>Journal of Bacteriology</i> , 1998, 180, 2237-2243.	2.2	98
38	Characterization of the <i>Pseudomonas</i> sp. strain P51 gene <i>tcbR</i> , a LysR-type transcriptional activator of the <i>tcbCDEF</i> chlorocatechol oxidative operon, and analysis of the regulatory region. <i>Journal of Bacteriology</i> , 1991, 173, 3700-3708.	2.2	94
39	Enantioselective Transformation of \pm -Hexachlorocyclohexane by the Dehydrochlorinases LinA1 and LinA2 from the Soil Bacterium <i>Sphingomonas paucimobilis</i> B90A. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8514-8518.	3.1	93
40	Bacterial Biosensors for Measuring Availability of Environmental Pollutants. <i>Sensors</i> , 2008, 8, 4062-4080.	3.8	91
41	The <i>tfdR</i> gene product can successfully take over the role of the insertion element-inactivated TfdT protein as a transcriptional activator of the <i>tfdCDEF</i> gene cluster, which encodes chlorocatechol degradation in <i>Ralstonia eutropha</i> JMP134(pJP4). <i>Journal of Bacteriology</i> , 1996, 178, 6824-6832.	2.2	88
42	Low-Frequency Horizontal Transfer of an Element Containing the Chlorocatechol Degradation Genes from <i>Pseudomonas</i> sp. Strain B13 to <i>Pseudomonas putida</i> F1 and to Indigenous Bacteria in Laboratory-Scale Activated-Sludge Microcosms. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2126-2132.	3.1	88
43	Measurement of Biologically Available Naphthalene in Gas and Aqueous Phases by Use of a <i>Pseudomonas putida</i> Biosensor. <i>Applied and Environmental Microbiology</i> , 2004, 70, 43-51.	3.1	80
44	First Day of an Oil Spill on the Open Sea: Early Mass Transfers of Hydrocarbons to Air and Water. <i>Environmental Science & Technology</i> , 2014, 48, 9400-9411.	10.0	78
45	Bacterial community structure of a pesticide-contaminated site and assessment of changes induced in community structure during bioremediation. <i>FEMS Microbiology Ecology</i> , 2006, 57, 116-127.	2.7	76
46	Development of a microfluidics biosensor for agarose-bead immobilized <i>Escherichia coli</i> bioreporter cells for arsenite detection in aqueous samples. <i>Lab on A Chip</i> , 2011, 11, 2369.	6.0	75
47	Impact of Mycelia on the Accessibility of Fluorene to PAH-Degrading Bacteria. <i>Environmental Science & Technology</i> , 2013, 47, 6908-6915.	10.0	73
48	Development of bacteria-based bioassays for arsenic detection in natural waters. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 687-693.	3.7	72
49	Generalist hydrocarbon-degrading bacterial communities in the oil-polluted water column of the North Sea. <i>Microbial Biotechnology</i> , 2015, 8, 434-447.	4.2	72
50	Dynamics of multigene expression during catabolic adaptation of <i>Ralstonia eutropha</i> JMP134 (pJP4) to the herbicide 2,4-dichlorophenoxyacetate. <i>Molecular Microbiology</i> , 1999, 33, 396-406.	2.5	71
51	Enhanced biodegradation of hexachlorocyclohexane (HCH) in contaminated soils via inoculation with <i>Sphingobium indicum</i> B90A. <i>Biodegradation</i> , 2008, 19, 27-40.	3.0	71
52	Field Testing of Arsenic in Groundwater Samples of Bangladesh Using a Test Kit Based on Lyophilized Bioreporter Bacteria. <i>Environmental Science & Technology</i> , 2012, 46, 3281-3287.	10.0	70
53	HbpR, a New Member of the XylR/DmpR Subclass within the NtrC Family of Bacterial Transcriptional Activators, Regulates Expression of 2-Hydroxybiphenyl Metabolism in <i>Pseudomonas azelaica</i> HBP1. <i>Journal of Bacteriology</i> , 2000, 182, 405-417.	2.2	69
54	Development of a Multistrain Bacterial Bioreporter Platform for the Monitoring of Hydrocarbon Contaminants in Marine Environments. <i>Environmental Science & Technology</i> , 2010, 44, 1049-1055.	10.0	69

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55	Electrochemical As(III) whole-cell based biochip sensor. <i>Biosensors and Bioelectronics</i> , 2013, 47, 237-242.	10.1	69
56	Stochasticity and bistability in horizontal transfer control of a genomic island in <i>Pseudomonas</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20792-20797.	7.1	68
57	Population dynamics of an introduced bacterium degrading chlorinated benzenes in a soil column and in sewage sludge. <i>Biodegradation</i> , 1999, 10, 113-125.	3.0	65
58	Unusual Integrase Gene Expression on the <i>clc</i> Genomic Island in <i>Pseudomonas</i> sp. Strain B13. <i>Journal of Bacteriology</i> , 2003, 185, 4530-4538.	2.2	65
59	Miniaturized and integrated whole cell living bacterial sensors in field applicable autonomous devices. <i>Current Opinion in Biotechnology</i> , 2017, 45, 24-33.	6.6	64
60	Evolution of a chlorobenzene degradative pathway among bacteria in a contaminated groundwater mediated by a genomic island in <i>Ralstonia</i> . <i>Environmental Microbiology</i> , 2003, 5, 163-173.	3.8	63
61	Local Environmental Factors Drive Divergent Grassland Soil Bacterial Communities in the Western Swiss Alps. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6303-6316.	3.1	63
62	Host and invader impact of transfer of the <i>clc</i> genomic island into <i>Pseudomonas aeruginosa</i> PAO1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7058-7063.	7.1	62
63	Mechanistic insights into bacterial metabolic reprogramming from omics-integrated genome-scale models. <i>Npj Systems Biology and Applications</i> , 2020, 6, 1.	3.0	62
64	Bioreporters and biosensors for arsenic detection. Biotechnological solutions for a world-wide pollution problem. <i>Current Opinion in Biotechnology</i> , 2013, 24, 534-541.	6.6	61
65	Cloning and characterization of the genes encoding nitrilotriacetate monooxygenase of <i>Chelatobacter heintzii</i> ATCC 29600. <i>Journal of Bacteriology</i> , 1996, 178, 6123-6132.	2.2	59
66	Inhibition of denitrification activity but not of mRNA induction in <i>Paracoccus denitrificans</i> by nitrite at a suboptimal pH. <i>Antonie Van Leeuwenhoek</i> , 1997, 72, 183-189.	1.7	57
67	Environmental pollution promotes selection of microbial degradation pathways. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 35-42.	4.0	56
68	Intracellular excision and reintegration dynamics of the ICE $_{clc}$ genomic island of <i>Pseudomonas knackmussii</i> sp. strain B13. <i>Molecular Microbiology</i> , 2009, 72, 1293-1306.	2.5	56
69	A new green fluorescent protein-based bacterial biosensor for analysing phenanthrene fluxes. <i>Environmental Microbiology</i> , 2006, 8, 697-708.	3.8	55
70	Genetic Analysis of Phenoxyalkanoic Acid Degradation in <i>Sphingomonas herbicidovorans</i> MH. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6066-6075.	3.1	54
71	Purification and Characterization of Two Enantioselective \pm -Ketoglutarate-Dependent Dioxygenases, RdpA and SdpA, from <i>Sphingomonas herbicidovorans</i> MH. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4853-4861.	3.1	52
72	Comparative genome analysis of <i>Pseudomonas knackmussii</i> B13, the first bacterium known to degrade chloroaromatic compounds. <i>Environmental Microbiology</i> , 2015, 17, 91-104.	3.8	52

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73	The <i>clc</i> element of <i>Pseudomonas</i> sp. strain B13 and other mobile degradative elements employing phage-like integrases. <i>Archives of Microbiology</i> , 2001, 175, 79-85.	2.2	51
74	Compact portable biosensor for arsenic detection in aqueous samples with <i>Escherichia coli</i> bioreporter cells. <i>Review of Scientific Instruments</i> , 2014, 85, 015120.	1.3	51
75	Characterization of two alternative promoters for integrase expression in the <i>clc</i> genomic island of <i>Pseudomonas</i> sp. strain B13. <i>Molecular Microbiology</i> , 2003, 49, 93-104.	2.5	50
76	Analysis of Bioavailable Arsenic in Rice with Whole Cell Living Bioreporter Bacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2115-2120.	5.2	50
77	Molecular Diversity of Plasmids Bearing Genes That Encode Toluene and Xylene Metabolism in <i>Pseudomonas</i> Strains Isolated from Different Contaminated Sites in Belarus. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2842-2852.	3.1	49
78	Ultrasensitive Reporter Protein Detection in Genetically Engineered Bacteria. <i>Analytical Chemistry</i> , 2005, 77, 2683-2689.	6.5	47
79	Cellular Variability of RpoS Expression Underlies Subpopulation Activation of an Integrative and Conjugative Element. <i>PLoS Genetics</i> , 2012, 8, e1002818.	3.5	46
80	Measuring mass transfer processes of octane with the help of an <i>alkSalkB::gfp</i> -tagged <i>Escherichia coli</i> . <i>Environmental Microbiology</i> , 2001, 3, 512-524.	3.8	45
81	Bioreporters: <i>gfp</i> versus <i>lux</i> revisited and single-cell response. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1578-1585.	10.1	45
82	Internal arsenite bioassay calibration using multiple bioreporter cell lines. <i>Microbial Biotechnology</i> , 2008, 1, 149-157.	4.2	45
83	Genomic changes underlying host specialization in the bee gut symbiont <i>Lactobacillus Firm5</i> . <i>Molecular Ecology</i> , 2019, 28, 2224-2237.	3.9	45
84	Relationship between sediment organic matter, bacteria composition, and the ecosystem metabolism of alpine streams. <i>Limnology and Oceanography</i> , 2004, 49, 2001-2010.	3.1	41
85	A dual functional origin of transfer in the ICE _{clc} genomic island of <i>Pseudomonas knackmussii</i> B13. <i>Molecular Microbiology</i> , 2011, 79, 743-758.	2.5	41
86	Regulatable and Modifiable Background Expression Control in Prokaryotic Synthetic Circuits by Auxiliary Repressor Binding Sites. <i>ACS Synthetic Biology</i> , 2016, 5, 36-45.	3.8	41
87	Information from single-cell bacterial biosensors: what is it good for?. <i>Current Opinion in Biotechnology</i> , 2006, 17, 4-10.	6.6	40
88	Cell Differentiation to "Mating Bodies" Induced by an Integrating and Conjugative Element in Free-Living Bacteria. <i>Current Biology</i> , 2013, 23, 255-259.	3.9	40
89	Genome-wide analysis of <i>Sphingomonas wittichii</i> RW1 behaviour during inoculation and growth in contaminated sand. <i>ISME Journal</i> , 2015, 9, 150-165.	9.8	40
90	Highly variable individual donor cell fates characterize robust horizontal gene transfer of an integrative and conjugative element. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3375-E3383.	7.1	40

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91	Development of stable denitrifying cultures during repeated aerobic-anaerobic transient periods. <i>Water Research</i> , 1997, 31, 1947-1954.	11.3	39
92	Dynamics of Multiple <i>lin</i> Gene Expression in <i>Sphingomonas paucimobilis</i> B90A in Response to Different Hexachlorocyclohexane Isomers. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6650-6656.	3.1	39
93	<i>Burkholderia sartisoli</i> sp. nov., isolated from a polycyclic aromatic hydrocarbon-contaminated soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 420-423.	1.7	39
94	Double-tagged fluorescent bacterial bioreporter for the study of polycyclic aromatic hydrocarbon diffusion and bioavailability. <i>Environmental Microbiology</i> , 2009, 11, 2271-2283.	3.8	39
95	Transcriptional profiling of <i>G</i> ram-positive <i>A</i> ctinobacter in the phyllosphere: induction of pollutant degradation genes by natural plant phenolic compounds. <i>Environmental Microbiology</i> , 2014, 16, 2212-2225.	3.8	39
96	Adaptation to Chronic Nutritional Stress Leads to Reduced Dependence on Microbiota in <i>Drosophila melanogaster</i> . <i>MBio</i> , 2017, 8, .	4.1	39
97	Transcriptional Organization and Dynamic Expression of the <i>hbpCAD</i> Genes, Which Encode the First Three Enzymes for 2-Hydroxybiphenyl Degradation in <i>Pseudomonas azelaica</i> HBP1. <i>Journal of Bacteriology</i> , 2001, 183, 270-279.	2.2	37
98	Mutant <i>HbpR</i> transcription activator isolation for 2-chlorobiphenyl via green fluorescent protein-based flow cytometry and cell sorting. <i>Microbial Biotechnology</i> , 2008, 1, 68-78.	4.2	37
99	Transcriptome and membrane fatty acid analyses reveal different strategies for responding to permeating and non-permeating solutes in the bacterium <i>Sphingomonas wittichii</i> . <i>BMC Microbiology</i> , 2011, 11, 250.	3.3	36
100	Genome-wide transposon insertion scanning of environmental survival functions in the polycyclic aromatic hydrocarbon degrading bacterium <i>Sphingomonas wittichii</i> RW1. <i>Environmental Microbiology</i> , 2013, 15, 2681-2695.	3.8	36
101	Molecular-based methods can contribute to assessments of toxicological risks and bioremediation strategies. <i>Journal of Microbiological Methods</i> , 1998, 32, 107-119.	1.6	35
102	Genetic characterization of insertion sequence ISJP4 on plasmid pJP4 from <i>Ralstonia eutropha</i> JMP134. <i>Gene</i> , 1997, 202, 103-114.	2.2	33
103	Biotransformation of Various Substituted Aromatic Compounds to Chiral Dihydrodihydroxy Derivatives. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3333-3339.	3.1	33
104	Sequencing and characterizing the genome of <i>Estrella lausannensis</i> as an undergraduate project: training students and biological insights. <i>Frontiers in Microbiology</i> , 2015, 6, 101.	3.5	32
105	Quantitative chemical biosensing by bacterial chemotaxis in microfluidic chips. <i>Environmental Microbiology</i> , 2018, 20, 241-258.	3.8	31
106	Archaeorhizomycetes Spatial Distribution in Soils Along Wide Elevational and Environmental Gradients Reveal Co-abundance Patterns With Other Fungal Saprotrophs and Potential Weathering Capacities. <i>Frontiers in Microbiology</i> , 2019, 10, 656.	3.5	30
107	Effect of two types of biosurfactants on phenanthrene availability to the bacterial bioreporter <i>Burkholderia sartisoli</i> strain RP037. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1131-1139.	3.6	29
108	Genome-Wide Analysis of Salicylate and Dibenzofuran Metabolism in <i>Sphingomonas Wittichii</i> RW1. <i>Frontiers in Microbiology</i> , 2012, 3, 300.	3.5	29

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109	Host diet mediates a negative relationship between abundance and diversity of <i>Drosophila</i> gut microbiota. <i>Ecology and Evolution</i> , 2018, 8, 9491-9502.	1.9	29
110	Bridging the Holistic-Reductionist Divide in Microbial Ecology. <i>MSystems</i> , 2019, 4, .	3.8	29
111	Effect of integration of a GFP reporter gene on fitness of <i>Ralstonia eutropha</i> during growth with 2,4-dichlorophenoxyacetic acid. <i>Environmental Microbiology</i> , 2003, 5, 878-887.	3.8	28
112	Quantification of bacterial mRNA involved in degradation of 1,2,4-trichlorobenzene by <i>Pseudomonas</i> sp. strain P51 from liquid culture and from river sediment by reverse transcriptase PCR (RT/PCR). <i>FEMS Microbiology Letters</i> , 1998, 167, 123-129.	1.8	27
113	Comparison of naphthalene bioavailability determined by whole-cell biosensing and availability determined by extraction with Tenax. <i>Environmental Pollution</i> , 2008, 156, 803-808.	7.5	27
114	An Operon of Three Transcriptional Regulators Controls Horizontal Gene Transfer of the Integrative and Conjugative Element ICE _{clc} in <i>Pseudomonas knackmussii</i> B13. <i>PLoS Genetics</i> , 2014, 10, e1004441.	3.5	27
115	Miniaturized electrochemical biosensor based on whole-cell for heavy metal ions detection in water. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1456-1465.	3.3	27
116	Predicting spatial patterns of soil bacteria under current and future environmental conditions. <i>ISME Journal</i> , 2021, 15, 2547-2560.	9.8	27
117	Unlike PAHs from Exxon Valdez Crude Oil, PAHs from Gulf of Alaska Coals are not Readily Bioavailable. <i>Environmental Science & Technology</i> , 2009, 43, 5864-5870.	10.0	26
118	Transcriptome analysis of the mobile genome ICE _{clc} in <i>Pseudomonas knackmussii</i> B13. <i>BMC Microbiology</i> , 2010, 10, 153.	3.3	26
119	Exposure to Solute Stress Affects Genome-Wide Expression but Not the Polycyclic Aromatic Hydrocarbon-Degrading Activity of <i>Sphingomonas</i> sp. Strain LH128 in Biofilms. <i>Applied and Environmental Microbiology</i> , 2012, 78, 8311-8320.	3.1	26
120	Development of bioreporter assays for the detection of bioavailability of long-chain alkanes based on the marine bacterium <i>Alcanivorax borkumensis</i> strain SK2. <i>Environmental Microbiology</i> , 2011, 13, 2808-2819.	3.8	25
121	Tunable reporter signal production in feedback-coupled arsenic bioreporters. <i>Microbial Biotechnology</i> , 2013, 6, 503-514.	4.2	25
122	<i>Escherichia coli</i> ribose binding protein based bioreporters revisited. <i>Scientific Reports</i> , 2014, 4, 5626.	3.3	25
123	Versatility of soil column experiments to study biodegradation of halogenated compounds under environmental conditions. <i>Biodegradation</i> , 1992, 3, 265-284.	3.0	24
124	Biochip with <i>E. coli</i> bacteria for detection of arsenic in drinking water. <i>Procedia Chemistry</i> , 2009, 1, 1003-1006.	0.7	24
125	The Genome of the Toluene-Degrading <i>Pseudomonas veronii</i> Strain 1YdBTEX2 and Its Differential Gene Expression in Contaminated Sand. <i>PLoS ONE</i> , 2016, 11, e0165850.	2.5	24
126	Rapid detection of microbiota cell type diversity using machine-learned classification of flow cytometry data. <i>Communications Biology</i> , 2020, 3, 379.	4.4	24

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127	Analysis of the binding site of the LysR-type transcriptional activator TcbR on the tcbR and tcbC divergent promoter sequences. <i>Journal of Bacteriology</i> , 1994, 176, 1850-1856.	2.2	23
128	Effect of Groundwater Composition on Arsenic Detection by Bacterial Biosensors. <i>Mikrochimica Acta</i> , 2005, 151, 217-222.	5.0	23
129	Identification and Physical Characterization of the HbpR Binding Sites of the hbpC and hbpD Promoters. <i>Journal of Bacteriology</i> , 2002, 184, 2914-2924.	2.2	22
130	A New Large-DNA-Fragment Delivery System Based on Integrase Activity from an Integrative and Conjugative Element. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4440-4447.	3.1	21
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