

Kenneth Nigel Timmis

List of Publications by Year in descending order

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223
papers

19,759
citations

11608

70
h-index

12558

132
g-index

223
all docs

223
docs citations

223
times ranked

16392
citing authors

#	ARTICLE	IF	CITATIONS
1	Scientistsâ€™ warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , 2019, 17, 569-586.	13.6	1,138
2	[31] Analysis and construction of stable phenotypes in gram-negative bacteria with Tn5- and Tn10-derived minitransposons. <i>Methods in Enzymology</i> , 1994, 235, 386-405.	0.4	852
3	Obligate oil-degrading marine bacteria. <i>Current Opinion in Biotechnology</i> , 2007, 18, 257-266.	3.3	769
4	An evaluation of terminal-restriction fragment length polymorphism (T-RFLP) analysis for the study of microbial community structure and dynamics. <i>Environmental Microbiology</i> , 2000, 2, 39-50.	1.8	720
5	Analysis of <i>Pseudomonas</i> gene products using lacIq/P _{trp} -lac plasmids and transposons that confer conditional phenotypes. <i>Gene</i> , 1993, 123, 17-24.	1.0	429
6	Genome sequence of the ubiquitous hydrocarbon-degrading marine bacterium <i>Alcanivorax borkumensis</i> . <i>Nature Biotechnology</i> , 2006, 24, 997-1004.	9.4	417
7	Oral Somatic Transgene Vaccination Using Attenuated <i>S. typhimurium</i> . <i>Cell</i> , 1997, 91, 765-775.	13.5	400
8	Fungi and inflammatory bowel diseases: Alterations of composition and diversity. <i>Scandinavian Journal of Gastroenterology</i> , 2008, 43, 831-841.	0.6	375
9	TRANSCRIPTIONAL CONTROL OF THE PSEUDOMONAS TOL PLASMID CATABOLIC OPERONS IS ACHIEVED THROUGH AN INTERPLAY OF HOST FACTORS AND PLASMID-ENCODED REGULATORS. <i>Annual Review of Microbiology</i> , 1997, 51, 341-373.	2.9	315
10	Replication control in a composite plasmid constructed by in vitro linkage of two distinct replicons. <i>Nature</i> , 1976, 259, 285-290.	13.7	298
11	Thermal Gradient Gel Electrophoresis Analysis of Bioprotection from Pollutant Shocks in the Activated Sludge Microbial Community. <i>Applied and Environmental Microbiology</i> , 1999, 65, 102-109.	1.4	291
12	A general system to integrate lacZ fusions into the chromosomes of gram-negative eubacteria: regulation of the P _m promoter of the TOL plasmid studied with all controlling elements in monocopy. <i>Molecular Genetics and Genomics</i> , 1992, 233, 293-301.	2.4	285
13	<i>Pseudomonas putida</i> : a cosmopolitan opportunist par excellence. <i>Environmental Microbiology</i> , 2002, 4, 779-781.	1.8	278
14	Combined Use of 16S Ribosomal DNA and 16S rRNA To Study the Bacterial Community of Polychlorinated Biphenyl-Polluted Soil. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1874-1884.	1.4	276
15	The Enigma of Prokaryotic Life in Deep Hypersaline Anoxic Basins. <i>Science</i> , 2005, 307, 121-123.	6.0	275
16	Polychlorinated biphenyl-degrading microbial communities in soils and sediments. <i>Current Opinion in Microbiology</i> , 2002, 5, 246-253.	2.3	263
17	Novel hydrolase diversity retrieved from a metagenome library of bovine rumen microflora. <i>Environmental Microbiology</i> , 2005, 7, 1996-2010.	1.8	258
18	Limits of life in MgCl ₂ -containing environments: chaotropicity defines the window. <i>Environmental Microbiology</i> , 2007, 9, 801-813.	1.8	254

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19	Effects of temperature and biostimulation on oil-degrading microbial communities in temperate estuarine waters. <i>Environmental Microbiology</i> , 2007, 9, 177-186.	1.8	242
20	Genome-Scale Reconstruction and Analysis of the <i>Pseudomonas putida</i> KT2440 Metabolic Network Facilitates Applications in Biotechnology. <i>PLoS Computational Biology</i> , 2008, 4, e1000210.	1.5	237
21	Is there a common water-activity limit for the three domains of life?. <i>ISME Journal</i> , 2015, 9, 1333-1351.	4.4	229
22	Chaperonins govern growth of <i>Escherichia coli</i> at low temperatures. <i>Nature Biotechnology</i> , 2003, 21, 1266-1267.	9.4	228
23	Stratified prokaryote network in the oxic-anoxic transition of a deep-sea halocline. <i>Nature</i> , 2006, 440, 203-207.	13.7	215
24	Determining the identity and roles of oil-metabolizing marine bacteria from the Thames estuary, UK. <i>Environmental Microbiology</i> , 2007, 9, 165-176.	1.8	201
25	Cloning and characterization of EcoRI and HindIII restriction endonuclease-generated fragments of antibiotic resistance plasmids R6-5 and R6. <i>Molecular Genetics and Genomics</i> , 1978, 162, 121-137.	2.4	200
26	Genetic analysis of a <i>Pseudomonas</i> locus encoding a pathway for biphenyl/polychlorinated biphenyl degradation. <i>Gene</i> , 1993, 130, 47-55.	1.0	195
27	Natural microbial diversity in superficial sediments of Milazzo Harbor (Sicily) and community successions during microcosm enrichment with various hydrocarbons. <i>Environmental Microbiology</i> , 2005, 7, 1426-1441.	1.8	194
28	Apoptosis of mouse dendritic cells is triggered by listeriolysin, the major virulence determinant of <i>Listeria monocytogenes</i> . <i>Molecular Microbiology</i> , 1996, 20, 119-126.	1.2	182
29	The biphenyl/polychlorinated biphenyl-degradation locus (bph) of <i>Pseudomonas</i> sp. LB400 encodes four additional metabolic enzymes. <i>Gene</i> , 1994, 144, 9-16.	1.0	174
30	Designing Microorganisms for the Treatment of Toxic Wastes. <i>Annual Review of Microbiology</i> , 1994, 48, 525-557.	2.9	174
31	Detection and Diversity of Expressed Denitrification Genes in Estuarine Sediments after Reverse Transcription-PCR Amplification from mRNA. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5017-5025.	1.4	174
32	Novel Polyphenol Oxidase Mined from a Metagenome Expression Library of Bovine Rumen. <i>Journal of Biological Chemistry</i> , 2006, 281, 22933-22942.	1.6	168
33	Genetic Analysis of Dioxin Dioxygenase of <i>Sphingomonas</i> sp. Strain RW1: Catabolic Genes Dispersed on the Genome. <i>Journal of Bacteriology</i> , 1998, 180, 3954-3966.	1.0	165
34	Chaotropic solutes cause water stress in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2003, 5, 1270-1280.	1.8	153
35	Identification of the metabolically active members of a bacterial community in a polychlorinated biphenyl-polluted moorland soil. <i>Environmental Microbiology</i> , 1999, 1, 199-212.	1.8	148
36	Efficacy of intervention strategies for bioremediation of crude oil in marine systems and effects on indigenous hydrocarbonoclastic bacteria. <i>Environmental Microbiology</i> , 2007, 9, 1562-1571.	1.8	146

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37	Ferroplasma and relatives, recently discovered cell wall-lacking archaea making a living in extremely acid, heavy metal-rich environments. <i>Environmental Microbiology</i> , 2005, 7, 1277-1288.	1.8	143
38	Microbial Enzymes Mined from the Urania Deep-Sea Hypersaline Anoxic Basin. <i>Chemistry and Biology</i> , 2005, 12, 895-904.	6.2	142
39	Proteomic Insights into Metabolic Adaptations in <i>Alcanivorax borkumensis</i> Induced by Alkane Utilization. <i>Journal of Bacteriology</i> , 2006, 188, 3763-3773.	1.0	139
40	Towards elucidation of microbial community metabolic pathways: unravelling the network of carbon sharing in a pollutant-degrading bacterial consortium by immunocapture and isotopic ratio mass spectrometry. <i>Environmental Microbiology</i> , 1999, 1, 167-174.	1.8	136
41	Domain structure and conserved epitopes of Sfb protein, the fibronectin-binding adhesin of <i>Streptococcus pyogenes</i> . <i>Molecular Microbiology</i> , 1994, 13, 531-539.	1.2	135
42	Analysis of Storage Lipid Accumulation in <i>Alcanivorax borkumensis</i> : Evidence for Alternative Triacylglycerol Biosynthesis Routes in Bacteria. <i>Journal of Bacteriology</i> , 2007, 189, 918-928.	1.0	133
43	Multiplication of microbes below 0.690 water activity: implications for terrestrial and extraterrestrial life. <i>Environmental Microbiology</i> , 2015, 17, 257-277.	1.8	131
44	Green fluorescent protein-based reporter systems for genetic analysis of bacteria including monocopy applications. <i>Gene</i> , 1997, 196, 69-74.	1.0	130
45	7-O -Malonyl Macrolactin A, a New Macrolactin Antibiotic from <i>Bacillus subtilis</i> Active against Methicillin-Resistant <i>Staphylococcus aureus</i> , Vancomycin-Resistant Enterococci, and a Small-Colony Variant of <i>Burkholderia cepacia</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 1701-1709.	1.4	129
46	The potential of <i>Bacillus licheniformis</i> strains for in situ enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 1997, 18, 147-160.	2.1	128
47	Removal of Mercury from Chemical Wastewater by Microorganisms in Technical Scale. <i>Environmental Science & Technology</i> , 2000, 34, 4628-4634.	4.6	126
48	Genome sequence completed of <i>Alcanivorax borkumensis</i> , a hydrocarbon-degrading bacterium that plays a global role in oil removal from marine systems. <i>Journal of Biotechnology</i> , 2003, 106, 215-220.	1.9	126
49	Viable cyanobacteria in the deep continental subsurface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10702-10707.	3.3	124
50	From Xenobiotic to Antibiotic, Formation of Protoanemonin from 4-Chlorocatechol by Enzymes of the 3-Oxadipate Pathway. <i>Journal of Biological Chemistry</i> , 1995, 270, 29229-29235.	1.6	115
51	Engineering of alkyl- and haloaromatic-responsive gene expression with mini-transposons containing regulated promoters of biodegradative pathways of <i>Pseudomonas</i> . <i>Gene</i> , 1993, 130, 41-46.	1.0	113
52	Characterization of marine isoprene-degrading communities. <i>Environmental Microbiology</i> , 2009, 11, 3280-3291.	1.8	111
53	Regiospecificity of Dioxygenation of Di- to Pentachlorobiphenyls and Their Degradation to Chlorobenzoates by the <i>bph</i> -Encoded Catabolic Pathway of <i>Burkholderia</i> sp. Strain LB400. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3614-3621.	1.4	109
54	In vitro alterations of intestinal bacterial microbiota in fecal samples during storage. <i>Diagnostic Microbiology and Infectious Disease</i> , 2004, 50, 237-245.	0.8	105

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55	Halophilic archaea in the human intestinal mucosa. <i>Environmental Microbiology</i> , 2010, 12, 2398-2410.	1.8	105
56	Concomitant osmotic and chaotropicity-induced stresses in <i>Aspergillus wentii</i> : compatible solutes determine the biotic window. <i>Current Genetics</i> , 2015, 61, 457-477.	0.8	101
57	Primary producing prokaryotic communities of brine, interface and seawater above the halocline of deep anoxic lake L'Atalante, Eastern Mediterranean Sea. <i>ISME Journal</i> , 2007, 1, 743-755.	4.4	99
58	The urgent need for microbiology literacy in society. <i>Environmental Microbiology</i> , 2019, 21, 1513-1528.	1.8	99
59	The evolutionary relationship of biphenyl dioxygenase from Gram-positive <i>Rhodococcus globerulus</i> P6 to multicomponent dioxygenases from Gram-negative bacteria. <i>Gene</i> , 1995, 156, 11-18.	1.0	93
60	Signal-regulator interactions, genetic analysis of the effector binding site of xyls, the benzoate-activated positive regulator of <i>Pseudomonas</i> TOL plasmid meta-cleavage pathway operon. <i>Journal of Molecular Biology</i> , 1990, 211, 373-382.	2.0	92
61	Effect of the Earthworms <i>Lumbricus terrestris</i> and <i>Aporrectodea caliginosa</i> on Bacterial Diversity in Soil. <i>Microbial Ecology</i> , 2010, 59, 574-587.	1.4	92
62	Central Role of Dynamic Tidal Biofilms Dominated by Aerobic Hydrocarbonoclastic Bacteria and Diatoms in the Biodegradation of Hydrocarbons in Coastal Mudflats. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3638-3648.	1.4	90
63	Genetic analysis of a relaxed substrate specificity aromatic ring dioxygenase, toluate 1,2-dioxygenase, encoded by TOL plasmid pWW0 of <i>Pseudomonas putida</i> . <i>Molecular Genetics and Genomics</i> , 1986, 202, 226-234.	2.4	89
64	Analysis of the K1 capsule biosynthesis genes of <i>Escherichia coli</i> : Definition of three functional regions for capsule production. <i>Molecular Genetics and Genomics</i> , 1987, 208, 242-246.	2.4	89
65	The cellular machinery of <i>Ferroplasma acidiphilum</i> is iron-protein-dominated. <i>Nature</i> , 2007, 445, 91-94.	13.7	88
66	Heterogeneous aerobic benzene-degrading communities in oxygen-depleted groundwaters. <i>FEMS Microbiology Ecology</i> , 2006, 58, 260-270.	1.3	87
67	Adaptation of the Hydrocarbonoclastic Bacterium <i>Alcanivorax borkumensis</i> SK2 to Alkanes and Toxic Organic Compounds: a Physiological and Transcriptomic Approach. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4282-4293.	1.4	85
68	Plasmid replication functions. <i>Molecular Genetics and Genomics</i> , 1979, 168, 1-25.	2.4	84
69	Identification of Chlorobenzene Dioxygenase Sequence Elements Involved in Dechlorination of 1,2,4,5-Tetrachlorobenzene. <i>Journal of Bacteriology</i> , 1998, 180, 5520-5528.	1.0	80
70	Mutation in a <i>tesB</i> -Like Hydroxyacyl-Coenzyme A-Specific Thioesterase Gene Causes Hyperproduction of Extracellular Polyhydroxyalkanoates by <i>Alcanivorax borkumensis</i> SK2. <i>Journal of Bacteriology</i> , 2006, 188, 8452-8459.	1.0	79
71	Identification of Functional Residues in a 2-Hydroxymuconic Semialdehyde Hydrolase. <i>Journal of Biological Chemistry</i> , 1995, 270, 6403-6411.	1.6	77
72	Plasmid incompatibility: cloning analysis of an <i>inc FII</i> determinant of R6-5. <i>Nature</i> , 1978, 273, 27-32.	13.7	76

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73	Universal barrier to lateral spread of specific genes among microorganisms. <i>Molecular Microbiology</i> , 1994, 13, 855-861.	1.2	75
74	An <i>Escherichia coli</i> hemolysin transport system-based vector for the export of polypeptides: Export of shiga-like toxin IIeB subunit by <i>Salmonella typhimurium</i> aroA. <i>Nature Biotechnology</i> , 1996, 14, 765-769.	9.4	75
75	Genetic and Biochemical Characterization of the Broad Spectrum Chlorobenzene Dioxygenase from <i>Burkholderia</i> Sp. Strain PS12 - Dechlorination of 1,2,4,5-Tetrachlorobenzene. <i>FEBS Journal</i> , 1997, 247, 190-199.	0.2	74
76	A Functional 4-Hydroxysalicylate/Hydroxyquinol Degradative Pathway Gene Cluster Is Linked to the Initial Dibenzo- <i>p</i> -Dioxin Pathway Genes in <i>Sphingomonas</i> sp. Strain RW1. <i>Journal of Bacteriology</i> , 1999, 181, 3452-3461.	1.0	74
77	Low temperature-induced systems failure in <i>Escherichia coli</i> : Insights from rescue by cold-adapted chaperones. <i>Proteomics</i> , 2006, 6, 193-206.	1.3	73
78	The contribution of microbial biotechnology to sustainable development goals. <i>Microbial Biotechnology</i> , 2017, 10, 984-987.	2.0	73
79	Cloning, nucleotide sequence, and expression of the gene encoding a novel dioxygenase involved in metabolism of carboxydiphenyl ethers in <i>Pseudomonas pseudoalcaligenes</i> POB310. <i>Archives of Microbiology</i> , 1995, 163, 35-41.	1.0	72
80	Bioprotection of microbial communities from toxic phenol mixtures by a genetically designed pseudomonad. <i>Nature Biotechnology</i> , 1997, 15, 378-382.	9.4	72
81	Compatible Solutes Protect against Chaotrope (Ethanol)-Induced, Nonosmotic Water Stress. <i>Applied and Environmental Microbiology</i> , 2003, 69, 7032-7034.	1.4	72
82	Expression of a Temperature-Sensitive Esterase in a Novel Chaperone-Based <i>Escherichia coli</i> Strain. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4499-4504.	1.4	71
83	Biochemical and Genetic Characterization of a Gentisate 1,2-Dioxygenase from <i>Sphingomonas</i> sp. Strain RW5. <i>Journal of Bacteriology</i> , 1998, 180, 4171-4176.	1.0	71
84	The <i>xylS</i> gene positive regulator of TOL plasmid pWWO: Identification, sequence analysis and overproduction leading to constitutive expression of meta cleavage operon. <i>Molecular Genetics and Genomics</i> , 1987, 207, 349-354.	2.4	70
85	Crystal structure of <i>cis</i> -biphenyl-2,3-dihydrodiol-2,3-dehydrogenase from a PCB degrader at 2.0 Å.. resolution. <i>Protein Science</i> , 1998, 7, 1286-1293.	3.1	69
86	Activation and Repression of Transcription at the Double Tandem Divergent Promoters for the <i>xylR</i> and <i>xylS</i> Genes of the TOL Plasmid of <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 1998, 180, 2889-2894.	1.0	69
87	Transcriptional profiling of the marine oil-degrading bacterium <i>Alcanivorax borkumensis</i> during growth on n-alkanes. <i>FEMS Microbiology Letters</i> , 2011, 319, 160-168.	0.7	65
88	Degradation of 1,2,3,4-Tetrachlorobenzene by <i>Pseudomonas chlororaphis</i> RW71. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3798-3806.	1.4	65
89	Cloning of chicken lysozyme structural gene sequences synthesized in vitro. <i>Nucleic Acids Research</i> , 1978, 5, 3275-3294.	6.5	64
90	Microbial community of a saline mud volcano at San Biagio-Belpasso, Mt. Etna (Italy). <i>Environmental Microbiology</i> , 2002, 4, 249-256.	1.8	64

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91	Three Stages of a Biofilm Community Developing at the Liquid-Liquid Interface between Polychlorinated Biphenyls and Water. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7301-7309.	1.4	64
92	16S rRNA gene sequence analyses and inter- and intrageneric relationships of <i>Xanthomonas</i> species and <i>Stenotrophomonas maltophilia</i> . <i>FEMS Microbiology Letters</i> , 2006, 151, 145-153.	0.7	64
93	A Novel [2Fe-2S] Ferredoxin from <i>Pseudomonas putida</i> Promotes the Reductive Reactivation of Catechol 2,3-Dioxygenase. <i>Journal of Biological Chemistry</i> , 1998, 273, 9622-9629.	1.6	63
94	Protein Network of the <i>Pseudomonas aeruginosa</i> Denitrification Apparatus. <i>Journal of Bacteriology</i> , 2016, 198, 1401-1413.	1.0	60
95	Substrate Specificity and Expression of Three 2,3-Dihydroxybiphenyl 1,2-Dioxygenases from <i>Rhodococcus globerulus</i> Strain P6. <i>Journal of Bacteriology</i> , 2003, 185, 2944-2951.	1.0	58
96	<i>Candidatus</i> <i>Lumbricincola</i> TM , a novel lineage of uncultured <i>Mollicutes</i> from earthworms of family <i>Lumbricidae</i> . <i>Environmental Microbiology</i> , 2009, 11, 1016-1026.	1.8	57
97	<i>Pseudomonas putida</i> Strains Which Constitutively Overexpress Mercury Resistance for Bioremediation of Organomercurial Pollutants. <i>Applied and Environmental Microbiology</i> , 1994, 60, 357-362.	1.4	57
98	Molecular Characterization of Fdx1, a Putidaredoxin-Type [2Fe-2S] Ferredoxin Able to Transfer Electrons to the Dioxin Dioxygenase of <i>Sphingomonas</i> sp. RW1. <i>FEBS Journal</i> , 1997, 247, 833-842.	0.2	56
99	Stable isotope probing reveals the dominant role of <i>Burkholderia</i> species in aerobic degradation of PCBs. <i>FEMS Microbiology Ecology</i> , 2005, 52, 207-217.	1.3	55
100	Effects of long-term benzene pollution on bacterial diversity and community structure in groundwater. <i>Environmental Microbiology</i> , 2005, 7, 1192-1199.	1.8	55
101	Genetic and Biochemical Analyses of the <i>tec</i> Operon Suggest a Route for Evolution of Chlorobenzene Degradation Genes. <i>Journal of Bacteriology</i> , 1999, 181, 341-346.	1.0	55
102	Degradation of chlorobiphenyls catalyzed by the <i>bph</i> -encoded biphenyl-2,3-dioxygenase and biphenyl-2,3-dihydrodiol-2,3-dehydrogenase of <i>Pseudomonas</i> sp. LB400. <i>FEMS Microbiology Letters</i> , 1995, 133, 259-264.	0.7	54
103	Uracil content of 16S rRNA of thermophilic and psychrophilic prokaryotes correlates inversely with their optimal growth temperatures. <i>Nucleic Acids Research</i> , 2005, 33, 4016-4022.	6.5	54
104	The importance of naturally attenuated SARS-CoV-2 in the fight against COVID-19. <i>Environmental Microbiology</i> , 2020, 22, 1997-2000.	1.8	54
105	The soil crisis: the need to treat as a global health problem and the pivotal role of microbes in prophylaxis and therapy. <i>Microbial Biotechnology</i> , 2021, 14, 769-797.	2.0	53
106	Upstream binding sequences of the XylR activator protein and integration host factor in the <i>xylS</i> gene promoter region of the <i>Pseudomonas</i> TOL plasmid. <i>Nucleic Acids Research</i> , 1992, 20, 1755-1762.	6.5	52
107	Impact of a simulated oil spill on benthic phototrophs and nitrogen-fixing bacteria in mudflat mesocosms. <i>Environmental Microbiology</i> , 2013, 15, 242-252.	1.8	52
108	3-Nitroadipate, a Metabolic Intermediate for Mineralization of 2,4-Dinitrophenol by a New Strain of a <i>Rhodococcus</i> Species. <i>Journal of Bacteriology</i> , 1999, 181, 149-152.	1.0	52

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109	Rapid assay for the determination of bacterial resistance to the lethal activity of serum. FEMS Microbiology Letters, 1979, 6, 273-276.	0.7	49
110	Identification of a cis-acting Sequence within the Pm Promoter of the TOL Plasmid which Confers XylS-mediated Responsiveness to Substituted Benzoates. Journal of Molecular Biology, 1993, 230, 699-703.	2.0	49
111	The two-step lysis system of pneumococcal bacteriophage EJ-1 is functional in Gram-negative bacteria: triggering of the major pneumococcal autolysin in Escherichia coli. Molecular Microbiology, 1996, 19, 667-681.	1.2	48
112	The 'pH optimum anomaly' of intracellular enzymes of Ferroplasma acidiphilum. Environmental Microbiology, 2006, 8, 416-425.	1.8	48
113	System to study horizontal gene exchange among microorganisms without cultivation of recipients. Molecular Microbiology, 1996, 22, 207-215.	1.2	47
114	Bacterial pathways for the degradation of polychlorinated biphenyls. Marine Chemistry, 1997, 58, 327-333.	0.9	47
115	The long journey towards standards for engineering biosystems. EMBO Reports, 2020, 21, e50521.	2.0	46
116	Purification and characterization of cytochrome P450RR1 from Rhodococcus rhodochrous. FEBS Journal, 1993, 213, 211-216.	0.2	45
117	Replication Region Fragments Cloned from F <i>lac</i> ⁺ Are Identical to <i>Eco</i> RI Fragment f5 of F. Journal of Bacteriology, 1976, 127, 1571-1575.	1.0	45
118	Inheritance functions of group IncFII transmissible antibiotic resistance plasmids. Plasmid, 1981, 5, 53-75.	0.4	44
119	Microbial consortia in mesocosm bioremediation trial using oil sorbents, slow-release fertilizer and bioaugmentation. FEMS Microbiology Ecology, 2009, 69, 288-300.	1.3	44
120	transistrons and proteins encoded by the Escherichia coli antibiotic resistance plasmid R6-5. Molecular Genetics and Genomics, 1978, 163, 169-179.	2.4	43
121	Plasmid replication functions. Molecular Genetics and Genomics, 1979, 168, 27-36.	2.4	43
122	Mini-transposons in microbial ecology and environmental biotechnology. FEMS Microbiology Ecology, 1998, 27, 211-224.	1.3	43
123	Protein complex formation during denitrification by <i>Pseudomonas aeruginosa</i> . Microbial Biotechnology, 2017, 10, 1523-1534.	2.0	43
124	The COVID-19 pandemic: some lessons learned about crisis preparedness and management, and the need for international benchmarking to reduce deficits. Environmental Microbiology, 2020, 22, 1986-1996.	1.8	43
125	Functional consequences of single:double ring transitions in chaperonins: life in the cold. Molecular Microbiology, 2004, 53, 167-182.	1.2	42
126	Widespread capacity to metabolize polychlorinated biphenyls by diverse microbial communities in soils with no significant exposure to PCB contamination. Environmental Microbiology, 2007, 9, 1890-1897.	1.8	41

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127	Reactome Array: Forging a Link Between Metabolome and Genome. <i>Science</i> , 2009, 326, 252-257.	6.0	39
128	Degradation of Chlorobenzenes at Nanomolar Concentrations by <i>Burkholderia</i> sp. Strain PS14 in Liquid Cultures and in Soil. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2547-2552.	1.4	39
129	Monoclonal antibody against pIII of filamentous phage: an immunological tool to study pIII fusion protein expression in phage display systems. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1995, 1, 53-64.	2.4	37
130	The reductase RedA2 of the multi-component dioxin dioxygenase system of <i>Sphingomonas</i> sp. RW1 is related to class-I cytochrome P450-type reductases. <i>FEBS Journal</i> , 1998, 253, 437-444.	0.2	37
131	A Second [2Fe-2S] Ferredoxin from <i>Sphingomonas</i> sp. Strain RW1 Can Function as an Electron Donor for the Dioxin Dioxygenase. <i>Journal of Bacteriology</i> , 2000, 182, 2238-2244.	1.0	37
132	Dynamics of Reductive Genome Evolution in Mitochondria and Obligate Intracellular Microbes. <i>Molecular Biology and Evolution</i> , 2007, 24, 449-456.	3.5	37
133	A T7 RNA polymerase-based system for the construction of <i>Pseudomonas</i> strains with phenotypes dependent on TOL-meta pathway effectors. <i>Gene</i> , 1993, 134, 103-106.	1.0	36
134	[26] Approach to analyze interactions of microorganisms, hydrophobic substrates, and soil colloids leading to formation of composite biofilms, and to study initial events in microbiogeological processes. <i>Methods in Enzymology</i> , 2001, 336, 317-IN14.	0.4	36
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