

Peter H Janssen

List of Publications by Year in descending order

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133
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times ranked

12454
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Identifying the Dominant Soil Bacterial Taxa in Libraries of 16S rRNA and 16S rRNA Genes. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1719-1728. | 3.1 | 1,462 |
| 2 | Rumen microbial community composition varies with diet and host, but a core microbiome is found across a wide geographical range. <i>Scientific Reports</i> , 2015, 5, 14567. | 3.3 | 1,172 |
| 3 | Three Genomes from the Phylum <i>Acidobacteria</i> Provide Insight into the Lifestyles of These Microorganisms in Soils. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2046-2056. | 3.1 | 804 |
| 4 | Diversity and Structure of the Methanogenic Community in Anoxic Rice Paddy Soil Microcosms as Examined by Cultivation and Direct 16S rRNA Gene Sequence Retrieval. <i>Applied and Environmental Microbiology</i> , 1998, 64, 960-969. | 3.1 | 679 |
| 5 | Improved Culturability of Soil Bacteria and Isolation in Pure Culture of Novel Members of the Divisions <i>Acidobacteria</i> , <i>Actinobacteria</i> , <i>Proteobacteria</i> , and <i>Verrucomicrobia</i> . <i>Applied and Environmental Microbiology</i> , 2002, 68, 2391-2396. | 3.1 | 631 |
| 6 | Influence of hydrogen on rumen methane formation and fermentation balances through microbial growth kinetics and fermentation thermodynamics. <i>Animal Feed Science and Technology</i> , 2010, 160, 1-22. | 2.2 | 562 |
| 7 | Structure of the Archaeal Community of the Rumen. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3619-3625. | 3.1 | 519 |
| 8 | Laboratory Cultivation of Widespread and Previously Uncultured Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2003, 69, 7210-7215. | 3.1 | 439 |
| 9 | Effects of Growth Medium, Inoculum Size, and Incubation Time on Culturability and Isolation of Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 826-834. | 3.1 | 438 |
| 10 | Cultivation of globally distributed soil bacteria from phylogenetic lineages previously only detected in cultivation-independent surveys. <i>Environmental Microbiology</i> , 2002, 4, 654-666. | 3.8 | 408 |
| 11 | Methane yield phenotypes linked to differential gene expression in the sheep rumen microbiome. <i>Genome Research</i> , 2014, 24, 1517-1525. | 5.5 | 332 |
| 12 | Simultaneous Amplicon Sequencing to Explore Co-Occurrence Patterns of Bacterial, Archaeal and Eukaryotic Microorganisms in Rumen Microbial Communities. <i>PLoS ONE</i> , 2013, 8, e47879. | 2.5 | 304 |
| 13 | Effect of DNA Extraction Methods and Sampling Techniques on the Apparent Structure of Cow and Sheep Rumen Microbial Communities. <i>PLoS ONE</i> , 2013, 8, e74787. | 2.5 | 280 |
| 14 | Rumen metagenome and metatranscriptome analyses of low methane yield sheep reveals a <i>Sharpea</i> -enriched microbiome characterised by lactic acid formation and utilisation. <i>Microbiome</i> , 2016, 4, 56. | 11.1 | 268 |
| 15 | The Genome Sequence of the Rumen Methanogen <i>Methanobrevibacter ruminantium</i> Reveals New Possibilities for Controlling Ruminant Methane Emissions. <i>PLoS ONE</i> , 2010, 5, e8926. | 2.5 | 256 |
| 16 | Two Different Bacterial Community Types Are Linked with the Low-Methane Emission Trait in Sheep. <i>PLoS ONE</i> , 2014, 9, e103171. | 2.5 | 246 |
| 17 | Effect of pH on Isolation and Distribution of Members of Subdivision 1 of the Phylum <i>Acidobacteria</i> Occurring in Soil. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1852-1857. | 3.1 | 206 |
| 18 | Combined Use of Cultivation-Dependent and Cultivation-Independent Methods Indicates that Members of Most Haloarchaeal Groups in an Australian Crystallizer Pond Are Cultivable. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5258-5265. | 3.1 | 180 |

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|----|---|-----|-----------|
| 19 | <i>Acidobacteria</i>, <i>Rubrobacteridae</i> and <i>Chloroflexi</i> are abundant among very slow-growing and mini-colony-forming soil bacteria. <i>Environmental Microbiology</i> , 2011, 13, 798-805. | 3.8 | 174 |
| 20 | <i>Haloquadratum walsbyi</i> gen. nov., sp. nov., the square haloarchaeon of Walsby, isolated from saltern crystallizers in Australia and Spain. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 387-392. | 1.7 | 173 |
| 21 | Energetics and kinetics of lactate fermentation to acetate and propionate via methylmalonyl-CoA or acrylyl-CoA. <i>FEMS Microbiology Letters</i> , 2002, 211, 65-70. | 1.8 | 169 |
| 22 | Disproportionation of inorganic sulfur compounds by the sulfate-reducing bacterium <i>Desulfocapsa thiozymogenes</i> gen. nov., sp. nov.. <i>Archives of Microbiology</i> , 1996, 166, 184-192. | 2.2 | 165 |
| 23 | <i>Chthoniobacter flavus</i> gen. nov., sp. nov., the First Pure-Culture Representative of Subdivision Two, <i>Spartobacteria classis</i> nov., of the Phylum Verrucomicrobia. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5875-5881. | 3.1 | 162 |
| 24 | Rice roots and methanogenesis in a paddy soil: ferric iron as an alternative electron acceptor in the rooted soil. <i>Soil Biology and Biochemistry</i> , 1999, 31, 421-430. | 8.8 | 154 |
| 25 | Comparative Phylogenetic Assignment of Environmental Sequences of Genes Encoding 16S rRNA and Numerically Abundant Culturable Bacteria from an Anoxic Rice Paddy Soil. <i>Applied and Environmental Microbiology</i> , 1999, 65, 5050-5058. | 3.1 | 145 |
| 26 | Detection and Cultivation of Soil Verrucomicrobia. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8402-8410. | 3.1 | 142 |
| 27 | RIM-DB: a taxonomic framework for community structure analysis of methanogenic archaea from the rumen and other intestinal environments. <i>PeerJ</i> , 2014, 2, e494. | 2.0 | 140 |
| 28 | Liquid Serial Dilution Is Inferior to Solid Media for Isolation of Cultures Representative of the Phylum-Level Diversity of Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4363-4366. | 3.1 | 136 |
| 29 | Characterization and Identification of Numerically Abundant Culturable Bacteria from the Anoxic Bulk Soil of Rice Paddy Microcosms. <i>Applied and Environmental Microbiology</i> , 1999, 65, 5042-5049. | 3.1 | 131 |
| 30 | New Threshold and Confidence Estimates for Terminal Restriction Fragment Length Polymorphism Analysis of Complex Bacterial Communities. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1270-1278. | 3.1 | 130 |
| 31 | Strategies to reduce methane emissions from farmed ruminants grazing on pasture. <i>Veterinary Journal</i> , 2011, 188, 11-17. | 1.7 | 130 |
| 32 | Phylum Verrucomicrobia representatives share a compartmentalized cell plan with members of bacterial phylum Planctomycetes. <i>BMC Microbiology</i> , 2009, 9, 5. | 3.3 | 120 |
| 33 | Nitrogen metabolism and rumen microbial enumeration in lactating cows with divergent residual feed intake fed high-digestibility pasture. <i>Journal of Dairy Science</i> , 2012, 95, 5024-5034. | 3.4 | 117 |
| 34 | Cultivation of Walsby's square haloarchaeon. <i>FEMS Microbiology Letters</i> , 2004, 238, 469-473. | 1.8 | 110 |
| 35 | Methanogen community structure in the rumens of farmed sheep, cattle and red deer fed different diets. <i>FEMS Microbiology Ecology</i> , 2011, 76, 311-326. | 2.7 | 101 |
| 36 | Cultivation of Walsby's square haloarchaeon. <i>FEMS Microbiology Letters</i> , 2004, 238, 469-473. | 1.8 | 99 |

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|----|--|-----|-----------|
| 37 | Characterization of rumen ciliate community composition in domestic sheep, deer, and cattle, feeding on varying diets, by means of PCR-DGGE and clone libraries. <i>FEMS Microbiology Ecology</i> , 2011, 75, 468-481. | 2.7 | 95 |
| 38 | A Proposed Taxonomy of Anaerobic Fungi (Class Neocallimastigomycetes) Suitable for Large-Scale Sequence-Based Community Structure Analysis. <i>PLoS ONE</i> , 2012, 7, e36866. | 2.5 | 95 |
| 39 | Responses of methane production and fermentation pathways to the increased dissolved hydrogen concentration generated by eight substrates in in vitro ruminal cultures. <i>Animal Feed Science and Technology</i> , 2014, 194, 1-11. | 2.2 | 92 |
| 40 | <i>Ilyobacter delafieldii</i> sp. nov., a metabolically restricted anaerobic bacterium fermenting PHB. <i>Archives of Microbiology</i> , 1990, 154, 253-259. | 2.2 | 90 |
| 41 | Presence of Novel, Potentially Homoacetogenic Bacteria in the Rumen as Determined by Analysis of Formyltetrahydrofolate Synthetase Sequences from Ruminants. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2058-2066. | 3.1 | 89 |
| 42 | Internal Transcribed Spacer 1 Secondary Structure Analysis Reveals a Common Core throughout the Anaerobic Fungi (Neocallimastigomycota). <i>PLoS ONE</i> , 2014, 9, e91928. | 2.5 | 88 |
| 43 | Secretory Antibodies Do Not Affect the Composition of the Bacterial Microbiota in the Terminal Ileum of 10-Week-Old Mice. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2100-2109. | 3.1 | 86 |
| 44 | Isolation of previously uncultured rumen bacteria by dilution to extinction using a new liquid culture medium. <i>Journal of Microbiological Methods</i> , 2011, 84, 52-60. | 1.6 | 84 |
| 45 | Improved taxonomic assignment of rumen bacterial 16S rRNA sequences using a revised SILVA taxonomic framework. <i>PeerJ</i> , 2019, 7, e6496. | 2.0 | 82 |
| 46 | Few Highly Abundant Operational Taxonomic Units Dominate within Rumen Methanogenic Archaeal Species in New Zealand Sheep and Cattle. <i>Applied and Environmental Microbiology</i> , 2015, 81, 986-995. | 3.1 | 72 |
| 47 | Secretory antibodies reduce systemic antibody responses against the gastrointestinal commensal flora. <i>International Immunology</i> , 2007, 19, 257-265. | 4.0 | 70 |
| 48 | PCR-generated artefact from 16S rRNA gene-specific primers. <i>FEMS Microbiology Letters</i> , 2005, 248, 183-187. | 1.8 | 68 |
| 49 | Phylogeny of Intestinal Ciliates, Including <i>Charonina ventriculi</i> , and Comparison of Microscopy and 18S rRNA Gene Pyrosequencing for Rumen Ciliate Community Structure Analysis. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2433-2444. | 3.1 | 65 |
| 50 | Taxonomic Assessment of Rumen Microbiota Using Total RNA and Targeted Amplicon Sequencing Approaches. <i>Frontiers in Microbiology</i> , 2016, 7, 987. | 3.5 | 61 |
| 51 | Shifts in Rumen Fermentation and Microbiota Are Associated with Dissolved Ruminal Hydrogen Concentrations in Lactating Dairy Cows Fed Different Types of Carbohydrates. <i>Journal of Nutrition</i> , 2016, 146, 1714-1721. | 2.9 | 60 |
| 52 | Propionate Formation by <i>Opiritatus terrae</i> in Pure Culture and in Mixed Culture with a Hydrogenotrophic Methanogen and Implications for Carbon Fluxes in Anoxic Rice Paddy Soil. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2089-2092. | 3.1 | 57 |
| 53 | Phylogenetic analysis by 16S ribosomal DNA sequence comparison reveals two unrelated groups of species within the genus. <i>FEMS Microbiology Letters</i> , 1995, 129, 69-73. | 1.8 | 54 |
| 54 | An adhesin from hydrogen-utilizing rumen methanogen <i>Methanobrevibacter ruminantium</i> binds a broad range of hydrogen-producing microorganisms. <i>Environmental Microbiology</i> , 2016, 18, 3010-3021. | 3.8 | 53 |

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|----|--|-----|-----------|
| 55 | Genome Sequence of <i>Chthoniobacter flavus</i> Ellin428, an Aerobic Heterotrophic Soil Bacterium. <i>Journal of Bacteriology</i> , 2011, 193, 2902-2903. | 2.2 | 52 |
| 56 | RUMINANT NUTRITION SYMPOSIUM: Use of genomics and transcriptomics to identify strategies to lower ruminal methanogenesis ^{1,2,3} . <i>Journal of Animal Science</i> , 2015, 93, 1431-1449. | 0.5 | 52 |
| 57 | Buccal Swabbing as a Noninvasive Method To Determine Bacterial, Archaeal, and Eukaryotic Microbial Community Structures in the Rumen. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7470-7483. | 3.1 | 52 |
| 58 | Methanogenic Degradation of Polysaccharides and the Characterization of Polysaccharolytic Clostridia from Anoxic Rice Field Soil. <i>Systematic and Applied Microbiology</i> , 1998, 21, 185-200. | 2.8 | 51 |
| 59 | Bacteremia due to <i>Leptotrichia trevisanii</i> sp. nov.. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2001, 20, 765-769. | 2.9 | 50 |
| 60 | Detection of a Reproducible, Single-Member Shift in Soil Bacterial Communities Exposed to Low Levels of Hydrogen. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1471-1479. | 3.1 | 50 |
| 61 | Decreasing methane emissions from ruminants grazing forages: a fit with productive and financial realities?. <i>Animal Production Science</i> , 2014, 54, 1141. | 1.3 | 50 |
| 62 | Lambs Fed Fresh Winter Forage Rape (<i>Brassica napus</i> L.) Emit Less Methane than Those Fed Perennial Ryegrass (<i>Lolium perenne</i> L.), and Possible Mechanisms behind the Difference. <i>PLoS ONE</i> , 2015, 10, e0119697. | 2.5 | 50 |
| 63 | Development of a vaccine to mitigate greenhouse gas emissions in agriculture: Vaccination of sheep with methanogen fractions induces antibodies that block methane production <i>in vitro</i> . <i>New Zealand Veterinary Journal</i> , 2010, 58, 29-36. | 0.9 | 49 |
| 64 | <i>Halonotius pteroides</i> gen. nov., sp. nov., an extremely halophilic archaeon recovered from a saltern crystallizer. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 1196-1199. | 1.7 | 48 |
| 65 | Chronic <i>Helicobacter pylori</i> Infection Does Not Significantly Alter the Microbiota of the Murine Stomach. <i>Applied and Environmental Microbiology</i> , 2007, 73, 1010-1013. | 3.1 | 47 |
| 66 | A thermophilic, lipolytic <i>Bacillus</i> sp., and continuous assay of its p-nitrophenyl-palmitate esterase activity. <i>FEMS Microbiology Letters</i> , 1994, 120, 195-200. | 1.8 | 46 |
| 67 | Genome Sequence of the <i>Verrucomicrobium Opitutus terrae</i> PB90-1, an Abundant Inhabitant of Rice Paddy Soil Ecosystems. <i>Journal of Bacteriology</i> , 2011, 193, 2367-2368. | 2.2 | 44 |
| 68 | Pathway of anaerobic poly- β -hydroxybutyrate degradation by <i>lyllobacter delafieldii</i> . <i>Biodegradation</i> , 1993, 4, 179-185. | 3.0 | 43 |
| 69 | Culturable Populations of <i>Sporomusa</i> spp. and <i>Desulfovibrio</i> spp. in the Anoxic Bulk Soil of Flooded Rice Microcosms. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3526-3533. | 3.1 | 43 |
| 70 | Phylogenetic analysis by 16S ribosomal DNA sequence comparison reveals two unrelated groups of species within the genus <i>Ruminococcus</i> . <i>FEMS Microbiology Letters</i> , 1995, 129, 69-73. | 1.8 | 41 |
| 71 | The complete genome sequence of the methanogenic archaeon ISO4-H5 provides insights into the methylophilic lifestyle of a ruminal representative of the <i>Methanomassiliicoccales</i> . <i>Standards in Genomic Sciences</i> , 2016, 11, 59. | 1.5 | 41 |
| 72 | Detection of <i>Verrucomicrobia</i> in a Pasture Soil by PCR-Mediated Amplification of 16S rRNA Genes. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4280-4284. | 3.1 | 39 |

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|----|--|-----|-----------|
| 73 | Gut-Associated Denitrification and In Vivo Emission of Nitrous Oxide by the Earthworm Families Megascolecidae and Lumbricidae in New Zealand. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3430-3436. | 3.1 | 38 |
| 74 | Metabolic pathways and energetics of the acetone-oxidizing, sulfate-reducing bacterium, <i>Desulfobacterium cetonicum</i> . <i>Archives of Microbiology</i> , 1995, 163, 188-194. | 2.2 | 37 |
| 75 | Severe <i>Bordetella holmesii</i> infection in a Previously Healthy Adolescent Confirmed by Gene Sequence Analysis. <i>Clinical Infectious Diseases</i> , 2001, 33, 129-130. | 5.8 | 37 |
| 76 | <i>Sharpea</i> and <i>Kandleria</i> are lactic acid producing rumen bacteria that do not change their fermentation products when co-cultured with a methanogen. <i>Anaerobe</i> , 2018, 54, 31-38. | 2.1 | 37 |
| 77 | The complete genome sequence of <i>Eubacterium limosum</i> SA11, a metabolically versatile rumen acetogen. <i>Standards in Genomic Sciences</i> , 2016, 11, 26. | 1.5 | 36 |
| 78 | Microbial degradation of natural and of new synthetic polymers. <i>FEMS Microbiology Letters</i> , 1992, 103, 311-316. | 1.8 | 35 |
| 79 | Succinate decarboxylation by <i>Propionigenium maris</i> sp. nov., a new anaerobic bacterium from an estuarine sediment. <i>Archives of Microbiology</i> , 1995, 164, 29-35. | 2.2 | 35 |
| 80 | Transient Production of Formate During Chemolithotrophic Growth of Anaerobic Microorganisms on Hydrogen. <i>Current Microbiology</i> , 1999, 38, 285-289. | 2.2 | 35 |
| 81 | A1 α -ATP Synthase of <i>Methanobrevibacter ruminantium</i> Couples Sodium Ions for ATP Synthesis under Physiological Conditions. <i>Journal of Biological Chemistry</i> , 2011, 286, 39882-39892. | 3.4 | 35 |
| 82 | Seasonal changes in the digesta-adherent rumen bacterial communities of dairy cattle grazing pasture. <i>PLoS ONE</i> , 2017, 12, e0173819. | 2.5 | 35 |
| 83 | Heterotrophic sulfur reduction by <i>Thermotoga</i> sp. strain FjSS3.B1. <i>FEMS Microbiology Letters</i> , 1992, 96, 213-217. | 1.8 | 33 |
| 84 | Selective enrichment and purification of cultures of <i>Methanosaeta</i> spp.. <i>Journal of Microbiological Methods</i> , 2003, 52, 239-244. | 1.6 | 33 |
| 85 | <i>Natronomonas moolapensis</i> sp. nov., non-alkaliphilic isolates recovered from a solar saltern crystallizer pond, and emended description of the genus <i>Natronomonas</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 1173-1176. | 1.7 | 33 |
| 86 | Isolation of <i>Clostridium propionicum</i> strain 19acry3 and further characteristics of the species. <i>Archives of Microbiology</i> , 1991, 155, 566-571. | 2.2 | 32 |
| 87 | Fermentative degradation of acetone by an enrichment culture in membrane-separated culture devices and in cell suspensions. <i>FEMS Microbiology Letters</i> , 1994, 122, 27-32. | 1.8 | 32 |
| 88 | Detection of known and novel genes encoding aromatic ring-hydroxylating dioxygenases in soils and in aromatic hydrocarbon-degrading bacteria. <i>FEMS Microbiology Letters</i> , 2002, 216, 61-66. | 1.8 | 32 |
| 89 | Variability of the <i>Chlamydia trachomatis</i> omp1 Gene Detected in Samples from Men Tested in Male-Only Saunas in Melbourne, Australia. <i>Journal of Clinical Microbiology</i> , 2004, 42, 2596-2601. | 3.9 | 30 |
| 90 | <i>Succinispira mobilis</i> gen. nov., sp. nov., a succinate-decarboxylating anaerobic bacterium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 1999, 49, 1009-1013. | 1.7 | 29 |

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|-----|--|-----|-----------|
| 91 | Genome Sequence of <i>Pedospira parvula</i> Ellin514, an Aerobic Verrucomicrobial Isolate from Pasture Soil. <i>Journal of Bacteriology</i> , 2011, 193, 2900-2901. | 2.2 | 28 |
| 92 | An exo- β -D-galactanase from <i>Streptomyces</i> sp. provides insights into type II arabinogalactan structure. <i>Carbohydrate Research</i> , 2012, 352, 70-81. | 2.3 | 28 |
| 93 | Energetics and kinetics of lactate fermentation to acetate and propionate via methylmalonyl-CoA or acrylyl-CoA. <i>FEMS Microbiology Letters</i> , 2002, 211, 65-70. | 1.8 | 27 |
| 94 | Effects of alternative methyl group acceptors on the growth energetics of the O-demethylating anaerobe <i>Holophaga foetida</i> . <i>Microbiology (United Kingdom)</i> , 1997, 143, 1105-1114. | 1.8 | 26 |
| 95 | Propanol as an end product of threonine fermentation. <i>Archives of Microbiology</i> , 2004, 182, 482-486. | 2.2 | 26 |
| 96 | Characterization of the rumen microbial community composition of buffalo breeds consuming diets typical of dairy production systems in Southern China. <i>Animal Feed Science and Technology</i> , 2015, 207, 75-84. | 2.2 | 24 |
| 97 | Endospore Formation by <i>Thermoanaerobium brockii</i> HTD4. <i>Systematic and Applied Microbiology</i> , 1991, 14, 240-244. | 2.8 | 23 |
| 98 | Sodium-dependent succinate decarboxylation by a new anaerobic bacterium belonging to the genus <i>Peptostreptococcus</i> . <i>Antonie Van Leeuwenhoek</i> , 1996, 70, 11-20. | 1.7 | 23 |
| 99 | Vaccination of cattle with a methanogen protein produces specific antibodies in the saliva which are stable in the rumen. <i>Veterinary Immunology and Immunopathology</i> , 2015, 164, 201-207. | 1.2 | 23 |
| 100 | Considerations in the use of fluorescence in situ hybridization (FISH) and confocal laser scanning microscopy to characterize rumen methanogens and define their spatial distributions. <i>Canadian Journal of Microbiology</i> , 2015, 61, 417-428. | 1.7 | 23 |
| 101 | A restriction enzyme reduced representation sequencing approach for low-cost, high-throughput metagenome profiling. <i>PLoS ONE</i> , 2020, 15, e0219882. | 2.5 | 23 |
| 102 | Hydrogen and formate production and utilisation in the rumen and the human colon. <i>Animal Microbiome</i> , 2022, 4, 22. | 3.8 | 23 |
| 103 | Growth yield increase and ATP formation linked to succinate decarboxylation in <i>Veillonella parvula</i> . <i>Archives of Microbiology</i> , 1992, 157, 442-445. | 2.2 | 22 |
| 104 | <i>Clostridium viride</i> sp. nov., a strictly anaerobic bacterium using 5-aminovalerate as growth substrate, previously assigned to <i>Clostridium aminovalericum</i> . <i>Archives of Microbiology</i> , 1994, 162, 387-394. | 2.2 | 21 |
| 105 | Electron flow: key to mitigating ruminant methanogenesis. <i>Trends in Microbiology</i> , 2022, 30, 209-212. | 7.7 | 21 |
| 106 | Pathway of Glucose Catabolism by Strain VeGlc2, an Anaerobe Belonging to the Verrucomicrobiales Lineage of Bacterial Descent. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4830-4833. | 3.1 | 20 |
| 107 | A biphasic approach to the determination of the phenotypic and genotypic diversity of some anaerobic, cellulolytic, thermophilic, rod-shaped bacteria. <i>Antonie Van Leeuwenhoek</i> , 1994, 64, 341-355. | 1.7 | 17 |
| 108 | A Member of the Delta Subgroup of Proteobacteria from a Pyogenic Liver Abscess Is a Typical Sulfate Reducer of the Genus <i>Desulfovibrio</i> . <i>Journal of Clinical Microbiology</i> , 2001, 39, 787-790. | 3.9 | 16 |

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|-----|---|------|-----------|
| 109 | Variations in the abundance and identity of class II aromatic ringâ€hydroxylating dioxygenase genes in groundwater at an aromatic hydrocarbonâ€contaminated site. <i>Environmental Microbiology</i> , 2005, 7, 140-146. | 3.8 | 16 |
| 110 | Genetic parameters of plasma and ruminal volatile fatty acids in sheep fed alfalfa pellets and genetic correlations with enteric methane emissions1. <i>Journal of Animal Science</i> , 2019, 97, 2711-2724. | 0.5 | 16 |
| 111 | Vaccination of Sheep with a Methanogen Protein Provides Insight into Levels of Antibody in Saliva Needed to Target Ruminal Methanogens. <i>PLoS ONE</i> , 2016, 11, e0159861. | 2.5 | 16 |
| 112 | 14CO2 Exchange with Acetoacetate Catalyzed by Dialyzed Cell-Free Extracts of the Bacterial Strain Bunn Grown with Acetone and Nitrate. <i>FEBS Journal</i> , 1995, 228, 677-682. | 0.2 | 15 |
| 113 | Fermentation of glycolate by a pure culture of a strictly anaerobic gram-positive bacterium belonging to the family Lachnospiraceae. <i>Archives of Microbiology</i> , 2003, 179, 321-328. | 2.2 | 14 |
| 114 | Effects of medium composition on extracellular proteinase stability and yield in batch cultures of a <i>Thermus</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 1991, 34, 789. | 3.6 | 13 |
| 115 | Effects of long-acting, broad spectra anthelmintic treatments on the rumen microbial community compositions of grazing sheep. <i>Scientific Reports</i> , 2021, 11, 3836. | 3.3 | 13 |
| 116 | Modelling thermodynamic feedback on the metabolism of hydrogenotrophic methanogens. <i>Journal of Theoretical Biology</i> , 2019, 477, 14-23. | 1.7 | 12 |
| 117 | Anaerobic malonate decarboxylation by <i>Citrobacter diversus</i> . <i>Archives of Microbiology</i> , 1992, 157, 471-474. | 2.2 | 11 |
| 118 | Dormant microbes: scouting ahead or plodding along?. <i>Nature</i> , 2009, 458, 831-831. | 27.8 | 11 |
| 119 | Fermentation of Glycollate by a Mixed Culture of Anaerobic Bacteria. <i>Systematic and Applied Microbiology</i> , 1990, 13, 327-332. | 2.8 | 10 |
| 120 | Rapid determination of amino acid concentrations in microbiological media: Evaluation of Borchers' cuprizone method. <i>Journal of Microbiological Methods</i> , 1989, 10, 311-316. | 1.6 | 8 |
| 121 | Characterization of a succinate-fermenting anaerobic bacterium isolated from a glycolate-degrading mixed culture. <i>Archives of Microbiology</i> , 1991, 155, 288-293. | 2.2 | 8 |
| 122 | New Cultivation Strategies for Terrestrial Microorganisms. , 0, , 171-192. | | 8 |
| 123 | Individual-level correlations of rumen volatile fatty acids with enteric methane emissions for ranking methane yield in sheep fed fresh pasture. <i>Animal Production Science</i> , 2021, 61, 300. | 1.3 | 7 |
| 124 | Natural variation in methane emission of sheep fed on a lucerne pellet diet is unrelated to rumen ciliate community type. <i>Microbiology (United Kingdom)</i> , 2016, 162, 459-465. | 1.8 | 7 |
| 125 | A mechanistic model of hydrogenâ€methanogen dynamics in the rumen. <i>Journal of Theoretical Biology</i> , 2016, 393, 75-81. | 1.7 | 6 |
| 126 | Mapping immunogenic epitopes of an adhesin-like protein from <i>Methanobrevibacter ruminantium</i> M1 and comparison of empirical data with in silico prediction methods. <i>Scientific Reports</i> , 2022, 12, . | 3.3 | 5 |

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| 127 | Haloviruses and Their Hosts. , 2005, , 553-563. | | 4 |
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