

Philip L Bond

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

9,173
citations

52
h-index

94
g-index

132
ext. papers

10,695
ext. citations

7.7
avg, IF

6.31
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 128 | Identification of polyphosphate-accumulating organisms and design of 16S rRNA-directed probes for their detection and quantitation. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1175-82 | 4.8 | 626 |
| 127 | Formation of sphalerite (ZnS) deposits in natural biofilms of sulfate-reducing bacteria. <i>Science</i> , 2000 , 290, 1744-7 | 33.3 | 460 |
| 126 | An archaeal iron-oxidizing extreme acidophile important in acid mine drainage. <i>Science</i> , 2000 , 287, 1796-9 | 33.3 | 442 |
| 125 | Metagenomic analysis reveals wastewater treatment plants as hotspots of antibiotic resistance genes and mobile genetic elements. <i>Water Research</i> , 2017 , 123, 468-478 | 12.5 | 381 |
| 124 | Glycogen-accumulating organisms in laboratory-scale and full-scale wastewater treatment processes. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 3353-3364 | 2.9 | 336 |
| 123 | Phylogeny of microorganisms populating a thick, subaerial, predominantly lithotrophic biofilm at an extreme acid mine drainage site. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 3842-9 | 4.8 | 294 |
| 122 | The application of two-dimensional polyacrylamide gel electrophoresis and downstream analyses to a mixed community of prokaryotic microorganisms. <i>Environmental Microbiology</i> , 2004 , 6, 911-20 | 5.2 | 279 |
| 121 | Growth in sulfidic mineral environments: metal resistance mechanisms in acidophilic micro-organisms. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 1959-1970 | 2.9 | 258 |
| 120 | Metaproteomics: studying functional gene expression in microbial ecosystems. <i>Trends in Microbiology</i> , 2006 , 14, 92-7 | 12.4 | 252 |
| 119 | Cathodic oxygen reduction catalyzed by bacteria in microbial fuel cells. <i>ISME Journal</i> , 2008 , 2, 519-27 | 11.9 | 233 |
| 118 | Comparison of acid mine drainage microbial communities in physically and geochemically distinct ecosystems. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 4962-71 | 4.8 | 233 |
| 117 | Structural and regulatory genes required to make the gas dimethyl sulfide in bacteria. <i>Science</i> , 2007 , 315, 666-9 | 33.3 | 199 |
| 116 | Characterization of <i>Ferroplasma</i> isolates and <i>Ferroplasma acidarmanus</i> sp. nov., extreme acidophiles from acid mine drainage and industrial bioleaching environments. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 2079-88 | 4.8 | 170 |
| 115 | Identification of some of the major groups of bacteria in efficient and nonefficient biological phosphorus removal activated sludge systems. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4077-84 | 4.8 | 168 |
| 114 | Initial development and structure of biofilms on microbial fuel cell anodes. <i>BMC Microbiology</i> , 2010 , 10, 98 | 4.5 | 155 |
| 113 | Electron competition among nitrogen oxides reduction during methanol-utilizing denitrification in wastewater treatment. <i>Water Research</i> , 2013 , 47, 3273-81 | 12.5 | 147 |
| 112 | Metabolically active eukaryotic communities in extremely acidic mine drainage. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6264-71 | 4.8 | 144 |

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|-----|---|------|-----|
| 111 | Community proteogenomics highlights microbial strain-variant protein expression within activated sludge performing enhanced biological phosphorus removal. <i>ISME Journal</i> , 2008 , 2, 853-64 | 11.9 | 137 |
| 110 | A review and update of the microbiology of enhanced biological phosphorus removal in wastewater treatment plants. <i>Antonie Van Leeuwenhoek</i> , 2002 , 81, 681-91 | 2.1 | 125 |
| 109 | Metaproteomics provides functional insight into activated sludge wastewater treatment. <i>PLoS ONE</i> , 2008 , 3, e1778 | 3.7 | 121 |
| 108 | Antiepileptic drug carbamazepine promotes horizontal transfer of plasmid-borne multi-antibiotic resistance genes within and across bacterial genera. <i>ISME Journal</i> , 2019 , 13, 509-522 | 11.9 | 121 |
| 107 | A decade of metaproteomics: where we stand and what the future holds. <i>Proteomics</i> , 2015 , 15, 3409-17 | 4.8 | 119 |
| 106 | Enhancing aerobic granulation for biological nutrient removal from domestic wastewater. <i>Bioresource Technology</i> , 2012 , 103, 101-8 | 11 | 106 |
| 105 | Geochemical and biological aspects of sulfide mineral dissolution: lessons from Iron Mountain, California. <i>Chemical Geology</i> , 2000 , 169, 383-397 | 4.2 | 105 |
| 104 | Triclosan at environmentally relevant concentrations promotes horizontal transfer of multidrug resistance genes within and across bacterial genera. <i>Environment International</i> , 2018 , 121, 1217-1226 | 12.9 | 104 |
| 103 | How Does Poly(hydroxyalkanoate) Affect Methane Production from the Anaerobic Digestion of Waste-Activated Sludge?. <i>Environmental Science & Technology</i> , 2015 , 49, 12253-62 | 10.3 | 103 |
| 102 | Surface neutralization and H ₂ S oxidation at early stages of sewer corrosion: influence of temperature, relative humidity and H ₂ S concentration. <i>Water Research</i> , 2012 , 46, 4235-45 | 12.5 | 102 |
| 101 | A wide host-range metagenomic library from a waste water treatment plant yields a novel alcohol/aldehyde dehydrogenase. <i>Environmental Microbiology</i> , 2005 , 7, 1917-26 | 5.2 | 96 |
| 100 | Drivers of microbial community composition in mesophilic and thermophilic temperature-phased anaerobic digestion pre-treatment reactors. <i>Water Research</i> , 2013 , 47, 7098-108 | 12.5 | 92 |
| 99 | Determining the mechanisms for aerobic granulation from mixed seed of floccular and crushed granules in activated sludge wastewater treatment. <i>Water Research</i> , 2012 , 46, 761-71 | 12.5 | 92 |
| 98 | Achieving Stable Nitritation for Mainstream Deammonification by Combining Free Nitrous Acid-Based Sludge Treatment and Oxygen Limitation. <i>Scientific Reports</i> , 2016 , 6, 25547 | 4.9 | 87 |
| 97 | Determining the long-term effects of H ₂ S concentration, relative humidity and air temperature on concrete sewer corrosion. <i>Water Research</i> , 2014 , 65, 157-69 | 12.5 | 86 |
| 96 | Predicting concrete corrosion of sewers using artificial neural network. <i>Water Research</i> , 2016 , 92, 52-60 | 12.5 | 76 |
| 95 | Both silver ions and silver nanoparticles facilitate the horizontal transfer of plasmid-mediated antibiotic resistance genes. <i>Water Research</i> , 2020 , 169, 115229 | 12.5 | 75 |
| 94 | Expanding our view of genomic diversity in Candidatus Accumulibacter clades. <i>Environmental Microbiology</i> , 2015 , 17, 1574-85 | 5.2 | 74 |

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|----|---|------|----|
| 93 | Characteristics of attachment and growth of <i>Thiobacillus caldus</i> on sulphide minerals: a chemotactic response to sulphur minerals?. <i>Environmental Microbiology</i> , 2000 , 2, 324-32 | 5.2 | 74 |
| 92 | Extreme arsenic resistance by the acidophilic archaeon <i>Ferroplasma acidarmanus</i> UFer1. <i>Extremophiles</i> , 2007 , 11, 425-34 | 3 | 70 |
| 91 | Molecular insight into extreme copper resistance in the extremophilic archaeon <i>Ferroplasma acidarmanus</i> UFer1. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 2637-2646 | 2.9 | 70 |
| 90 | The role of iron in sulfide induced corrosion of sewer concrete. <i>Water Research</i> , 2014 , 49, 166-74 | 12.5 | 69 |
| 89 | Breakage and growth towards a stable aerobic granule size during the treatment of wastewater. <i>Water Research</i> , 2013 , 47, 5338-49 | 12.5 | 69 |
| 88 | Unraveling microbial structure and diversity of activated sludge in a full-scale simultaneous nitrogen and phosphorus removal plant using metagenomic sequencing. <i>Enzyme and Microbial Technology</i> , 2017 , 102, 16-25 | 3.8 | 66 |
| 87 | Microbial community proteomics: elucidating the catalysts and metabolic mechanisms that drive the Earth's biogeochemical cycles. <i>Current Opinion in Microbiology</i> , 2009 , 12, 310-7 | 7.9 | 64 |
| 86 | Analysis of differential protein expression during growth states of <i>Ferroplasma</i> strains and insights into electron transport for iron oxidation. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 4127-4137 | 2.9 | 63 |
| 85 | Soil bacterial consortia and previous exposure enhance the biodegradation of sulfonamides from pig manure. <i>Microbial Ecology</i> , 2012 , 64, 140-51 | 4.4 | 61 |
| 84 | Granule formation mechanisms within an aerobic wastewater system for phosphorus removal. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 7588-97 | 4.8 | 59 |
| 83 | Screening a wide host-range, waste-water metagenomic library in tryptophan auxotrophs of <i>Rhizobium leguminosarum</i> and of <i>Escherichia coli</i> reveals different classes of cloned <i>trp</i> genes. <i>Environmental Microbiology</i> , 2005 , 7, 1927-36 | 5.2 | 58 |
| 82 | Wastewater-Enhanced Microbial Corrosion of Concrete Sewers. <i>Environmental Science & Technology</i> , 2016 , 50, 8084-92 | 10.3 | 56 |
| 81 | Efficient inactivation of antibiotic resistant bacteria and antibiotic resistance genes by photo-Fenton process under visible LED light and neutral pH. <i>Water Research</i> , 2020 , 179, 115878 | 12.5 | 55 |
| 80 | Characterization of a nitrate-respiring bacterial community using the nitrate reductase gene (<i>narG</i>) as a functional marker. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 229-37 | 2.9 | 54 |
| 79 | Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. <i>ISME Journal</i> , 2020 , 14, 2179-2196 | 11.9 | 53 |
| 78 | Radiolabelled proteomics to determine differential functioning of <i>Accumulibacter</i> during the anaerobic and aerobic phases of a bioreactor operating for enhanced biological phosphorus removal. <i>Environmental Microbiology</i> , 2009 , 11, 3029-44 | 5.2 | 53 |
| 77 | Copper Oxide Nanoparticles Induce Lysogenic Bacteriophage and Metal-Resistance Genes in <i>Pseudomonas aeruginosa</i> PAO1. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22298-22307 | 9.5 | 52 |
| 76 | The Ecology of Acidophilic Microorganisms in the Corroding Concrete Sewer Environment. <i>Frontiers in Microbiology</i> , 2017 , 8, 683 | 5.7 | 52 |

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|----|--|------|----|
| 75 | Improving wastewater management using free nitrous acid (FNA). <i>Water Research</i> , 2020 , 171, 115382 | 12.5 | 52 |
| 74 | Identification of controlling factors for the initiation of corrosion of fresh concrete sewers. <i>Water Research</i> , 2015 , 80, 30-40 | 12.5 | 51 |
| 73 | Arsenic resistance in the archaeon "Ferroplasma acidarmanus": new insights into the structure and evolution of the ars genes. <i>Extremophiles</i> , 2003 , 7, 123-30 | 3 | 49 |
| 72 | High-throughput amplicon sequencing reveals distinct communities within a corroding concrete sewer system. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7160-2 | 4.8 | 48 |
| 71 | Monitoring associations between clade-level variation, overall community structure and ecosystem function in enhanced biological phosphorus removal (EBPR) systems using terminal-restriction fragment length polymorphism (T-RFLP). <i>Water Research</i> , 2010 , 44, 4908-23 | 12.5 | 46 |
| 70 | Biofilm development in the extremely acidophilic archaeon <i>Ferroplasma acidarmanus</i> Fer1. <i>Extremophiles</i> , 2010 , 14, 485-91 | 3 | 46 |
| 69 | From lithotroph- to organotroph-dominant: directional shift of microbial community in sulphidic tailings during phytostabilization. <i>Scientific Reports</i> , 2015 , 5, 12978 | 4.9 | 42 |
| 68 | Evidence for bacteriophage activity causing community and performance changes in a phosphorus-removal activated sludge. <i>FEMS Microbiology Ecology</i> , 2010 , 74, 631-42 | 4.3 | 41 |
| 67 | Towards exposure of elusive metabolic mixed-culture processes: the application of metaproteomic analyses to activated sludge. <i>Water Science and Technology</i> , 2006 , 54, 217-26 | 2.2 | 41 |
| 66 | Nonnutritive sweeteners can promote the dissemination of antibiotic resistance through conjugative gene transfer. <i>ISME Journal</i> , 2021 , 15, 2117-2130 | 11.9 | 41 |
| 65 | Bacterial diversity in response to direct revegetation in the Pb/Zn tailings under subtropical and semi-arid conditions. <i>Ecological Engineering</i> , 2014 , 68, 233-240 | 3.9 | 40 |
| 64 | A novel and simple treatment for control of sulfide induced sewer concrete corrosion using free nitrous acid. <i>Water Research</i> , 2015 , 70, 279-87 | 12.5 | 37 |
| 63 | Determining Multiple Responses of <i>Pseudomonas aeruginosa</i> PAO1 to an Antimicrobial Agent, Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2016 , 50, 5305-12 | 10.3 | 35 |
| 62 | Anaerobic phosphate release from activated sludge with enhanced biological phosphorus removal. A possible mechanism of intracellular pH control. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 507-15 | 4.9 | 33 |
| 61 | Mechanisms of Persistence of the Ammonia-Oxidizing Bacteria <i>Nitrosomonas</i> to the Biocide Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2018 , 52, 5386-5397 | 10.3 | 32 |
| 60 | Pandemic pharmaceutical dosing effects on wastewater treatment: no adaptation of activated sludge bacteria to degrade the antiviral drug oseltamivir (Tamiflu®) and loss of nutrient removal performance. <i>FEMS Microbiology Letters</i> , 2011 , 315, 17-22 | 2.9 | 32 |
| 59 | Establishing microbial diversity and functions in weathered and neutral Cu/Pb/Zn tailings with native soil addition. <i>Geoderma</i> , 2015 , 247-248, 108-116 | 6.7 | 31 |
| 58 | Use of SWATH mass spectrometry for quantitative proteomic investigation of <i>Shewanella oneidensis</i> MR-1 biofilms grown on graphite cloth electrodes. <i>Systematic and Applied Microbiology</i> , 2015 , 38, 135-9 | 4.2 | 30 |

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|----|--|------|----|
| 57 | Triclosan at environmental concentrations can enhance the spread of extracellular antibiotic resistance genes through transformation. <i>Science of the Total Environment</i> , 2020 , 713, 136621 | 10.2 | 30 |
| 56 | Bioenergetic models for acetate and phosphate transport in bacteria important in enhanced biological phosphorus removal. <i>Environmental Microbiology</i> , 2008 , 10, 87-98 | 5.2 | 30 |
| 55 | Metagenomic and metaproteomic analyses of <i>Accumulibacter</i> phosphatis-enriched floccular and granular biofilm. <i>Environmental Microbiology</i> , 2016 , 18, 273-87 | 5.2 | 29 |
| 54 | Evaluation of data-driven models for predicting the service life of concrete sewer pipes subjected to corrosion. <i>Journal of Environmental Management</i> , 2019 , 234, 431-439 | 7.9 | 29 |
| 53 | Evidence of differential adaptation to decreased temperature by anammox bacteria. <i>Environmental Microbiology</i> , 2018 , 20, 3514-3528 | 5.2 | 25 |
| 52 | A rapid, non-destructive methodology to monitor activity of sulfide-induced corrosion of concrete based on H ₂ S uptake rate. <i>Water Research</i> , 2014 , 59, 229-38 | 12.5 | 25 |
| 51 | The concentration-determined and population-specific antimicrobial effects of free nitrous acid on <i>Pseudomonas aeruginosa</i> PAO1. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 2305-12 | 5.7 | 24 |
| 50 | Chlorine disinfection facilitates natural transformation through ROS-mediated oxidative stress. <i>ISME Journal</i> , 2021 , 15, 2969-2985 | 11.9 | 23 |
| 49 | Antimicrobial Effects of Free Nitrous Acid on <i>Desulfovibrio vulgaris</i> : Implications for Sulfide-Induced Corrosion of Concrete. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 5563-75 | 4.8 | 23 |
| 48 | Effects of surface washing on the mitigation of concrete corrosion under sewer conditions. <i>Cement and Concrete Composites</i> , 2016 , 68, 88-95 | 8.6 | 21 |
| 47 | Assessing the genetic diversity of Cu resistance in mine tailings through high-throughput recovery of full-length <i>copA</i> genes. <i>Scientific Reports</i> , 2015 , 5, 13258 | 4.9 | 21 |
| 46 | Corrosion of reinforcing steel in concrete sewers. <i>Science of the Total Environment</i> , 2019 , 649, 739-748 | 10.2 | 21 |
| 45 | Previously unclassified bacteria dominate during thermophilic and mesophilic anaerobic pre-treatment of primary sludge. <i>Systematic and Applied Microbiology</i> , 2013 , 36, 281-90 | 4.2 | 20 |
| 44 | Impact of fluctuations in gaseous H ₂ S concentrations on sulfide uptake by sewer concrete: The effect of high H ₂ S loads. <i>Water Research</i> , 2015 , 81, 84-91 | 12.5 | 19 |
| 43 | The use of 16S rDNA clone libraries to describe the microbial diversity of activated sludge communities. <i>Water Science and Technology</i> , 1998 , 37, 451 | 2.2 | 19 |
| 42 | Distinct microbially induced concrete corrosion at the tidal region of reinforced concrete sewers. <i>Water Research</i> , 2019 , 150, 392-402 | 12.5 | 19 |
| 41 | Comparison of microbial communities across sections of a corroding sewer pipe and the effects of wastewater flooding. <i>Biofouling</i> , 2017 , 33, 780-792 | 3.3 | 18 |
| 40 | Effect of the anode potential on the physiology and proteome of <i>Shewanella oneidensis</i> MR-1. <i>Bioelectrochemistry</i> , 2018 , 119, 172-179 | 5.6 | 18 |

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|----|--|------|----|
| 39 | Deciphering the electric code of <i>Geobacter sulfurreducens</i> in cocultures with <i>Pseudomonas aeruginosa</i> via SWATH-MS proteomics. <i>Bioelectrochemistry</i> , 2018 , 119, 150-160 | 5.6 | 18 |
| 38 | First use of two-dimensional polyacrylamide gel electrophoresis to determine phylogenetic relationships. <i>Journal of Microbiological Methods</i> , 2004 , 58, 297-302 | 2.8 | 18 |
| 37 | Prediction of concrete corrosion in sewers with hybrid Gaussian processes regression model. <i>RSC Advances</i> , 2017 , 7, 30894-30903 | 3.7 | 17 |
| 36 | Towards determining details of anaerobic growth coupled to ferric iron reduction by the acidophilic archaeon <i>Ferroplasma acidarmanus</i> Fer1. <i>Extremophiles</i> , 2007 , 11, 159-68 | 3 | 17 |
| 35 | Physiological and transcriptomic analyses reveal CuO nanoparticle inhibition of anabolic and catabolic activities of sulfate-reducing bacterium. <i>Environment International</i> , 2019 , 125, 65-74 | 12.9 | 16 |
| 34 | Bioelectrochemical reduction of an azo dye by a <i>Shewanella oneidensis</i> MR-1 formed biocathode. <i>International Biodeterioration and Biodegradation</i> , 2016 , 115, 250-256 | 4.8 | 16 |
| 33 | Nitrite admixed concrete for wastewater structures: Mechanical properties, leaching behavior and biofilm development. <i>Construction and Building Materials</i> , 2020 , 233, 117341 | 6.7 | 16 |
| 32 | Silver nanoparticles stimulate the proliferation of sulfate reducing bacterium <i>Desulfovibrio vulgaris</i> . <i>Water Research</i> , 2018 , 129, 163-171 | 12.5 | 16 |
| 31 | Increased Resistance of Nitrite-Admixed Concrete to Microbially Induced Corrosion in Real Sewers. <i>Environmental Science & Technology</i> , 2020 , 54, 2323-2333 | 10.3 | 15 |
| 30 | Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. <i>ISME Journal</i> , 2021 , 15, 2493-2508 | 11.9 | 15 |
| 29 | New insights of the bacterial response to exposure of differently sized silver nanomaterials. <i>Water Research</i> , 2020 , 169, 115205 | 12.5 | 15 |
| 28 | Characterisation of enhanced biological phosphorus removal activated sludges with dissimilar phosphorus removal performances. <i>Water Science and Technology</i> , 1998 , 37, 567-571 | 2.2 | 13 |
| 27 | Characterization of an ATP-dependent DNA ligase from the acidophilic archaeon " <i>Ferroplasma acidarmanus</i> " Fer1. <i>Extremophiles</i> , 2007 , 11, 315-27 | 3 | 12 |
| 26 | Data on metagenomic profiles of activated sludge from a full-scale wastewater treatment plant. <i>Data in Brief</i> , 2017 , 15, 833-839 | 1.2 | 11 |
| 25 | Diversity of As Metabolism Functional Genes in Pb-Zn Mine Tailings. <i>Pedosphere</i> , 2017 , 27, 630-637 | 5 | 9 |
| 24 | Further limitations of phylogenetic group-specific probes used for detection of bacteria in environmental samples. <i>ISME Journal</i> , 2010 , 4, 959-61 | 11.9 | 9 |
| 23 | Evidence of compositional differences between the extracellular and intracellular DNA of a granular sludge biofilm. <i>Letters in Applied Microbiology</i> , 2011 , 53, 1-7 | 2.9 | 8 |
| 22 | Microbial community analysis during continuous fermentation of thermally hydrolysed waste activated sludge. <i>Water Science and Technology</i> , 2012 , 65, 7-14 | 2.2 | 8 |

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|----|---|------|---|
| 21 | Characterisation of enhanced biological phosphorus removal activated sludges with dissimilar phosphorus removal performances. <i>Water Science and Technology</i> , 1998 , 37, 567 | 2.2 | 8 |
| 20 | Bio-P and non-bio-P bacteria identification by a novel microbial approach. <i>Water Science and Technology</i> , 1999 , 39, 13 | 2.2 | 8 |
| 19 | Bio-P and non-bio-P bacteria identification by a novel microbial approach. <i>Water Science and Technology</i> , 1999 , 39, 13-20 | 2.2 | 8 |
| 18 | Structural Changes in Cell-Wall and Cell-Membrane Organic Materials Following Exposure to Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2020 , 54, 10301-10312 | 10.3 | 8 |
| 17 | A comparative proteomic analysis of <i>Desulfovibrio vulgaris</i> Hildenborough in response to the antimicrobial agent free nitrous acid. <i>Science of the Total Environment</i> , 2019 , 672, 625-633 | 10.2 | 7 |
| 16 | Sequence-specific and DNA structure-dependent interactions of <i>Escherichia coli</i> MutS and human p53 with DNA. <i>Analytical Biochemistry</i> , 2013 , 442, 51-61 | 3.1 | 7 |
| 15 | Free sulfurous acid (FSA) inhibition of biological thiosulfate reduction (BTR) in the sulfur cycle-driven wastewater treatment process. <i>Chemosphere</i> , 2017 , 176, 212-220 | 8.4 | 6 |
| 14 | Improved degradation of anaerobically digested sludge during post aerobic digestion using ultrasonic pretreatment. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 857-864 | 4.2 | 6 |
| 13 | Characterizing the premise plumbing microbiome in both water and biofilms of a 50-year-old building. <i>Science of the Total Environment</i> , 2021 , 798, 149225 | 10.2 | 5 |
| 12 | Periodic deprivation of gaseous hydrogen sulfide affects the activity of the concrete corrosion layer in sewers. <i>Water Research</i> , 2019 , 157, 463-471 | 12.5 | 4 |
| 11 | Structural changes in model compounds of sludge extracellular polymeric substances caused by exposure to free nitrous acid. <i>Water Research</i> , 2021 , 188, 116553 | 12.5 | 4 |
| 10 | Synergistic effect on concrete corrosion control in sewer environment achieved by applying surface washing on calcium nitrite admixed concrete. <i>Construction and Building Materials</i> , 2021 , 302, 124184 | 6.7 | 4 |
| 9 | Adaptive Evolution of <i>Geobacter sulfurreducens</i> in Coculture with <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2020 , 11, | 7.8 | 3 |
| 8 | Evaluation of continuous and intermittent trickling strategies for the removal of hydrogen sulfide in a biotrickling filter. <i>Chemosphere</i> , 2021 , 291, 132723 | 8.4 | 3 |
| 7 | Non-antibiotic pharmaceuticals can enhance the spread of antibiotic resistance via conjugation | | 2 |
| 6 | Molecular diversity of arbuscular mycorrhizal fungal communities across the gradient of alkaline Fe ore tailings, revegetated waste rock to natural soil sites. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 11968-11979 | 5.1 | 1 |
| 5 | Corrosion mitigation by nitrite spray on corroded concrete in a real sewer system. <i>Science of the Total Environment</i> , 2022 , 806, 151328 | 10.2 | 1 |
| 4 | Enhanced Growth of Pilin-Deficient <i>Geobacter sulfurreducens</i> Mutants in Carbon Poor and Electron Donor Limiting Conditions. <i>Microbial Ecology</i> , 2019 , 78, 618-630 | 4.4 | 1 |

- 3 Reactive nitrogen species from free nitrous acid (FNA) cause cell lysis.. *Water Research*, **2022**, 217, 118401.5 ○
- 2 Functional Screening a Wide Host-Range Metagenomic Library from a Wastewater Treatment Plant Yields a Novel Alcohol/Aldehyde Dehydrogenase **2011**, 451-459
- 1 Engineering biological nitrogen removal in wastewater treatment via the control of nitrite oxidising bacteria using free nitrous acid. *Microbiology Australia*, **2018**, 39, 47 ○0.8