

# Mark van Loosdrecht

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7495963/mark-van-loosdrecht-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

925  
papers

62,787  
citations

130  
h-index

207  
g-index

969  
ext. papers

71,547  
ext. citations

7  
avg, IF

8.18  
L-index

| #   | Paper                                                                                                                                                                                               | IF   | Citations |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 925 | Pilot-scale magnetic recovery of vivianite from digested sewage sludge.. <i>Water Research</i> , <b>2022</b> , 212, 118131                                                                          | 13.1 | 5         |
| 924 | Intensifying existing urban wastewater.. <i>Science</i> , <b>2022</b> , 375, 377-378                                                                                                                | 33.3 | 4         |
| 923 | Physiology of anammox adaptation to low temperatures and promising biomarkers: a review.. <i>Bioresource Technology</i> , <b>2022</b> , 126847                                                      | 11   | 1         |
| 922 | Insight on how biopolymers recovered from aerobic granular wastewater sludge can reduce the flammability of synthetic polymers. <i>Science of the Total Environment</i> , <b>2022</b> , 805, 150434 | 10.2 | 1         |
| 921 | Ionic strength of the liquid phase of different sludge streams in a wastewater treatment plant.. <i>Water Science and Technology</i> , <b>2022</b> , 85, 1920-1935                                  | 2.2  | 0         |
| 920 | Engineering an acetoacetyl-CoA reductase from <i>Cupriavidus necator</i> toward NADH preference under physiological conditions.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3757                 | 4.9  | 0         |
| 919 | Vivianite precipitation for iron recovery from anaerobic groundwater.. <i>Water Research</i> , <b>2022</b> , 217, 118345                                                                            | 12.5 | 2         |
| 918 | Modelling of methane production and emissions <b>2022</b> , 197-212                                                                                                                                 |      |           |
| 917 | On the mechanisms for aerobic granulation - model based evaluation.. <i>Water Research</i> , <b>2022</b> , 216, 118365                                                                              | 12.5 | 1         |
| 916 | Efficient formation of vivianite without anaerobic digester: Study in excess activated sludge. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107473                      | 6.8  | 1         |
| 915 | Controlling factors and involved mechanisms on forming alginate like extracellular polymers in flocculent sludge. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135792                   | 14.7 | 1         |
| 914 | Effect of temperature on the compositions of ladderane lipids in globally surveyed anammox populations.. <i>Science of the Total Environment</i> , <b>2022</b> , 154715                             | 10.2 | 1         |
| 913 | Sulfated glycosaminoglycan-like polymers are present in an acidophilic biofilm from a sulfidic cave.. <i>Science of the Total Environment</i> , <b>2022</b> , 829, 154472                           | 10.2 | 0         |
| 912 | Enhancing extraction of alginate like extracellular polymers (ALE) from flocculent sludge by surfactants.. <i>Science of the Total Environment</i> , <b>2022</b> , 837, 155673                      | 10.2 |           |
| 911 | Metagenomic profiling and transfer dynamics of antibiotic resistance determinants in a full-scale granular sludge wastewater treatment plant.. <i>Water Research</i> , <b>2022</b> , 219, 118571    | 12.5 | 0         |
| 910 | Making Waves: A sea change in treating wastewater - Why thermodynamics supports resource recovery and recycling.. <i>Water Research</i> , <b>2022</b> , 218, 118516                                 | 12.5 | 1         |
| 909 | On anammox activity at low temperature: Effect of ladderane composition and process conditions. <i>Chemical Engineering Journal</i> , <b>2022</b> , 445, 136712                                     | 14.7 | 0         |

|     |                                                                                                                                                                                                                                                                         |      |    |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 908 | Impact of primary sedimentation on granulation and treatment performance of municipal wastewater by aerobic granular sludge process.. <i>Journal of Environmental Management</i> , <b>2022</b> , 315, 1151379                                                           | 11.9 | 0  |
| 907 | Sustainability tensions and opportunities for aviation biofuel production in Brazil <b>2022</b> , 237-262                                                                                                                                                               |      |    |
| 906 | Density Measurements of Aerobic Granular Sludge.. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 1-27                                                                                                                                                 | 2.6  | 1  |
| 905 | Rheological characterisation of alginate-like exopolymer gels crosslinked with calcium. <i>Water Research</i> , <b>2021</b> , 207, 117835                                                                                                                               | 12.5 | 0  |
| 904 | Short and long term continuous hydroxylamine feeding in a granular sludge partial nitrification reactor.. <i>Water Research</i> , <b>2021</b> , 209, 117945                                                                                                             | 12.5 | 1  |
| 903 | Cost of fouling in full-scale reverse osmosis and nanofiltration installations in the Netherlands. <i>Desalination</i> , <b>2021</b> , 500, 114865                                                                                                                      | 10.3 | 24 |
| 902 | Exploration and verification of the feasibility of sulfide-driven partial denitrification coupled with anammox for wastewater treatment. <i>Water Research</i> , <b>2021</b> , 193, 116905                                                                              | 12.5 | 21 |
| 901 | OSiD: opening the conceptual design of biobased processes to a context-sensitive sustainability analysis. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2021</b> , 15, 961                                                                                          | 5.3  | 2  |
| 900 | Simultaneous nitrification and phosphate removal by bioaugmented aerobic granules treating a fluoroorganic compound. <i>Water Science and Technology</i> , <b>2021</b> , 83, 2404-2413                                                                                  | 2.2  |    |
| 899 | Biodegradation of organophosphorus pesticides in moving bed biofilm reactors: Analysis of microbial community and biodegradation pathways. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124950                                                            | 12.8 | 15 |
| 898 | Increased extracellular polymeric substances production contributes for the robustness of aerobic granular sludge during long-term intermittent exposure to 2-fluorophenol in saline wastewater. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 40, 101977 | 6.7  | 7  |
| 897 | Production of nonulosonic acids in the extracellular polymeric substances of "Candidatus <i>Accumulibacter phosphatis</i> ". <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 3327-3338                                                               | 5.7  | 0  |
| 896 | Biological removal processes in aerobic granular sludge exposed to diclofenac. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 1-14                                                                                                                    | 2.6  |    |
| 895 | Formation and ripening of alginate-like exopolymer gel layers during and after membrane filtration. <i>Water Research</i> , <b>2021</b> , 195, 116959                                                                                                                   | 12.5 | 6  |
| 894 | Assessment of the Impact of Temperature on Biofilm Composition with a Laboratory Heat Exchanger Module. <i>Microorganisms</i> , <b>2021</b> , 9,                                                                                                                        | 4.9  | 2  |
| 893 | Unravelling the removal mechanisms of bacterial and viral surrogates in aerobic granular sludge systems. <i>Water Research</i> , <b>2021</b> , 195, 116992                                                                                                              | 12.5 | 1  |
| 892 | 'Blue Route' for combating climate change. <i>National Science Review</i> , <b>2021</b> , 8, nwab099                                                                                                                                                                    | 10.8 | 0  |
| 891 | Scaling-up microbial community-based polyhydroxyalkanoate production: status and challenges. <i>Bioresource Technology</i> , <b>2021</b> , 327, 124790                                                                                                                  | 11   | 26 |

|     |                                                                                                                                                                                                                                                                                                              |      |    |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 890 | Database-independent de novo metaproteomics of complex microbial communities. <i>Cell Systems</i> , <b>2021</b> , 12, 375-383.e5                                                                                                                                                                             | 10.6 | 3  |
| 889 | Role of air scouring in anaerobic/anoxic tanks providing nitrogen removal by mainstream anammox conversion in a hybrid biofilm/suspended growth full-scale WWTP in China. <i>Water Environment Research</i> , <b>2021</b> , 93, 2198-2209                                                                    | 2.8  | 2  |
| 888 | Nitrous oxide emission from full-scale municipal aerobic granular sludge. <i>Water Research</i> , <b>2021</b> , 198, 117159                                                                                                                                                                                  | 12.5 | 5  |
| 887 | Efficient cooling tower operation at alkaline pH for the control of <i>Legionella pneumophila</i> and other pathogenic genera. <i>Water Research</i> , <b>2021</b> , 197, 117047                                                                                                                             | 12.5 | 2  |
| 886 | Vivianite scaling in wastewater treatment plants: Occurrence, formation mechanisms and mitigation solutions. <i>Water Research</i> , <b>2021</b> , 197, 117045                                                                                                                                               | 12.5 | 8  |
| 885 | A new anti-fouling polysulphone nanofiltration membrane blended by amine-functionalized MCM-41 for post treating waste stabilization pond's effluent. <i>Journal of Environmental Management</i> , <b>2021</b> , 290, 112649                                                                                 | 7.9  | 5  |
| 884 | Upgrading residues from wastewater and drinking water treatment plants as low-cost adsorbents to remove extracellular DNA and microorganisms carrying antibiotic resistance genes from treated effluents. <i>Science of the Total Environment</i> , <b>2021</b> , 778, 146364                                | 10.2 | 6  |
| 883 | Recovered granular sludge extracellular polymeric substances as carrier for bioaugmentation of granular sludge reactor. <i>Chemosphere</i> , <b>2021</b> , 275, 130037                                                                                                                                       | 8.4  | 1  |
| 882 | Free-floating extracellular DNA: Systematic profiling of mobile genetic elements and antibiotic resistance from wastewater. <i>Water Research</i> , <b>2021</b> , 189, 116592                                                                                                                                | 12.5 | 18 |
| 881 | Simultaneous biodegradability enhancement and high-efficient nitrogen removal in an innovative single stage anaerobic/anoxic/aerobic hybrid airlift bioreactor (HALBR) for composting leachate treatment: Process modeling and optimization. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127019 | 14.7 | 7  |
| 880 | Nanocellulose recovery from domestic wastewater. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124507                                                                                                                                                                                            | 10.3 | 9  |
| 879 | Ammonia removal from thermal hydrolysis dewatering liquors via three different deammonification technologies. <i>Science of the Total Environment</i> , <b>2021</b> , 755, 142684                                                                                                                            | 10.2 | 10 |
| 878 | Enhanced Methane Recovery from Waste-Activated Sludge by Alginate-Degrading Consortia: The Overlooked Role of Alginate in Extracellular Polymeric Substances. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 86-91                                                                   | 11   | 5  |
| 877 | Annual dynamics of antimicrobials and resistance determinants in flocculent and aerobic granular sludge treatment systems. <i>Water Research</i> , <b>2021</b> , 190, 116752                                                                                                                                 | 12.5 | 9  |
| 876 | Dynamic impact of cellulose and readily biodegradable substrate on oxygen transfer efficiency in sequencing batch reactors. <i>Water Research</i> , <b>2021</b> , 190, 116724                                                                                                                                | 12.5 | 6  |
| 875 | A hydrophilic and antifouling nanofiltration membrane modified by citric acid functionalized tannic acid (CA-f-TA) nanocomposite for dye removal from biologically treated baker's yeast wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104963                          | 6.8  | 13 |
| 874 | Hydroxylamine and the nitrogen cycle: A review. <i>Water Research</i> , <b>2021</b> , 190, 116723                                                                                                                                                                                                            | 12.5 | 28 |
| 873 | How to measure diffusion coefficients in biofilms: A critical analysis. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 1273-1285                                                                                                                                                               | 4.9  | 5  |

|     |                                                                                                                                                                                                                                    |      |    |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 872 | An NADH preferring acetoacetyl-CoA reductase is engaged in poly-3-hydroxybutyrate accumulation in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , <b>2021</b> , 325, 207-216                                           | 3.7  | 3  |
| 871 | Relieving the inhibition of humic acid on anaerobic digestion of excess sludge by metal ions. <i>Water Research</i> , <b>2021</b> , 188, 116541                                                                                    | 12.5 | 21 |
| 870 | Trehalose as an osmolyte in <i>Candidatus Accumilibacter phosphatis</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 379-388                                                                               | 5.7  | 1  |
| 869 | Evaluation of a Full-Scale Suspended Sludge Deammonification Technology Coupled with an Hydrocyclone to Treat Thermal Hydrolysis Dewatering Liquors. <i>Processes</i> , <b>2021</b> , 9, 278                                       | 2.9  | 5  |
| 868 | Temperature and Nutrient Limitations Decrease Transfer of Conjugative IncP-1 Plasmid pJK5 to Wild Strains. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 656250                                                             | 5.7  | 1  |
| 867 | An omics-based framework for assessing the health risk of antimicrobial resistance genes. <i>Nature Communications</i> , <b>2021</b> , 12, 4765                                                                                    | 17.4 | 25 |
| 866 | Natural deep eutectic solvents as biofilm structural breakers. <i>Water Research</i> , <b>2021</b> , 201, 117323                                                                                                                   | 12.5 | 5  |
| 865 | Elemental sulfur as electron donor and/or acceptor: Mechanisms, applications and perspectives for biological water and wastewater treatment. <i>Water Research</i> , <b>2021</b> , 202, 117373                                     | 12.5 | 17 |
| 864 | Potential of off-gas analyses for sequentially operated reactors demonstrated on full-scale aerobic granular sludge technology. <i>Science of the Total Environment</i> , <b>2021</b> , 787, 147651                                | 10.2 | 2  |
| 863 | Un-aerated feeding alters the fate of dissolved methane during aerobic wastewater treatment. <i>Water Research</i> , <b>2021</b> , 204, 117619                                                                                     | 12.5 | 1  |
| 862 | Recovery of extracellular biopolymers from conventional activated sludge: Potential, characteristics and limitation. <i>Water Research</i> , <b>2021</b> , 205, 117706                                                             | 12.5 | 6  |
| 861 | Simultaneous nitrification and denitrification in microbial community-based polyhydroxyalkanoate production. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125420                                                             | 11   | 2  |
| 860 | Periodic chemical cleaning with urea: disintegration of biofilms and reduction of key biofilm-forming bacteria from reverse osmosis membranes. <i>Water Research X</i> , <b>2021</b> , 13, 100117                                  | 8.1  | 1  |
| 859 | Identification of Extracellular Key Enzyme and Intracellular Metabolic Pathway in Alginate-Degrading Consortia via an Integrated Metaproteomic/Metagenomic Analysis. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , | 10.3 | 1  |
| 858 | Identification and role of microbial species developed in aerobic granular sludge bioreactor for livestock wastewater treatment. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 479, 012026         | 0.3  | 0  |
| 857 | Sialic Acids: An Important Family of Carbohydrates Overlooked in Environmental Biofilms. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7694                                                                            | 2.6  | 1  |
| 856 | β-cyclodextrin functionalized MWCNTs as a promising antifouling agent in fabrication of composite nanofiltration membranes. <i>Separation and Purification Technology</i> , <b>2020</b> , 247, 116979                              | 8.3  | 21 |
| 855 | The SPPD-WRF Framework: A Novel and Holistic Methodology for Strategical Planning and Process Design of Water Resource Factories. <i>Sustainability</i> , <b>2020</b> , 12, 4168                                                   | 3.6  | 5  |

|     |                                                                                                                                                                                                                                                                             |      |     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 854 | A comparison between chemical cleaning efficiency in lab-scale and full-scale reverse osmosis membranes: Role of extracellular polymeric substances (EPS). <i>Journal of Membrane Science</i> , <b>2020</b> , 609, 118189                                                   | 9.6  | 16  |
| 853 | <i>Escherichia coli</i> metabolism under short-term repetitive substrate dynamics: adaptation and trade-offs. <i>Microbial Cell Factories</i> , <b>2020</b> , 19, 116                                                                                                       | 6.4  | 6   |
| 852 | Variability in the composition of extracellular polymeric substances from a full-scale aerobic granular sludge reactor treating urban wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104156                                            | 6.8  | 11  |
| 851 | The potential and current status of earthen material for low-cost housing in rural India. <i>Construction and Building Materials</i> , <b>2020</b> , 247, 118615                                                                                                            | 6.7  | 22  |
| 850 | Stable granulation of seawater-adapted aerobic granular sludge with filamentous Thiothrix bacteria. <i>Water Research</i> , <b>2020</b> , 175, 115683                                                                                                                       | 12.5 | 9   |
| 849 | Effect of the co-treatment of synthetic faecal sludge and wastewater in an aerobic granular sludge system. <i>Science of the Total Environment</i> , <b>2020</b> , 741, 140480                                                                                              | 10.2 | 4   |
| 848 | Exploring resource recovery potentials for the aerobic granular sludge process by mass and energy balances [Energy, biopolymer and phosphorous recovery from municipal wastewater. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 2164-2179 | 4.2  | 8   |
| 847 | Selecting for lactic acid producing and utilising bacteria in anaerobic enrichment cultures. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 1281-1293                                                                                                         | 4.9  | 24  |
| 846 | Extracellular protein isolation from the matrix of anammox biofilm using ionic liquid extraction. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 3643-3654                                                                                              | 5.7  | 7   |
| 845 | "Galacturonibacter soehngeni" Shows Acetogenic Catabolism of Galacturonic Acid but Lacks a Canonical Carbon Monoxide Dehydrogenase/Acetyl-CoA Synthase Complex. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 63                                                     | 5.7  | 5   |
| 844 | Tackling the chemical diversity of microbial nonulosonic acids - a universal large-scale survey approach. <i>Chemical Science</i> , <b>2020</b> , 11, 3074-3080                                                                                                             | 9.4  | 7   |
| 843 | Biological phosphorus removal in seawater-adapted aerobic granular sludge. <i>Water Research</i> , <b>2020</b> , 172, 115531                                                                                                                                                | 12.5 | 19  |
| 842 | The bottlenecks and causes, and potential solutions for municipal sewage treatment in China. <i>Water Practice and Technology</i> , <b>2020</b> , 15, 160-169                                                                                                               | 0.9  | 13  |
| 841 | A critical review of resource recovery from municipal wastewater treatment plants [market supply potentials, technologies and bottlenecks. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 877-910                                           | 4.2  | 130 |
| 840 | Bacterial community dynamics and disinfection impact in cooling water systems. <i>Water Research</i> , <b>2020</b> , 172, 115505                                                                                                                                            | 12.5 | 21  |
| 839 | Decorating the Anammox House: Sialic Acids and Sulfated Glycosaminoglycans in the Extracellular Polymeric Substances of Anammox Granular Sludge. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5218-5226                                                | 10.3 | 20  |
| 838 | Anticipating Xenogenic Pollution at the Source: Impact of Sterilizations on DNA Release From Microbial Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 171                                                                                | 5.8  | 3   |
| 837 | Waste or Gold? Bioelectrochemical Resource Recovery in Source-Separated Urine. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 990-1006                                                                                                                                  | 15.1 | 16  |

|     |                                                                                                                                                                                                                                                                |      |    |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 836 | Granulation and Biodegradation by Microbial Species in Granular Sequencing Batch Reactor for Soy Sauce Wastewater Treatment. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , <b>2020</b> , 287-308                             | 0.5  | 0  |
| 835 | Treatment of sidestream dewatering liquors from thermally hydrolysed and anaerobically digested biosolids. <i>Water Practice and Technology</i> , <b>2020</b> , 15, 142-150                                                                                    | 0.9  | 6  |
| 834 | NADH-driven poly-3-hydroxybutyrate accumulation in : Data from enzymatic assays and oxygen-limited continuous cultures. <i>Data in Brief</i> , <b>2020</b> , 33, 106588                                                                                        | 1.2  | 1  |
| 833 | Microbial Identification and Extracellular Polymeric Substances Characterization of Aerobic Granules Developed in Treating Rubber Processing Wastewater. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , <b>2020</b> , 257-286 | 0.5  | 1  |
| 832 | Full-scale increased iron dosage to stimulate the formation of vivianite and its recovery from digested sewage sludge. <i>Water Research</i> , <b>2020</b> , 182, 115911                                                                                       | 12.5 | 27 |
| 831 | Sustainable disposal of excess sludge: Incineration without anaerobic digestion. <i>Water Research</i> , <b>2020</b> , 170, 115298                                                                                                                             | 12.5 | 45 |
| 830 | Aerobic granular sludge contains Hyaluronic acid-like and sulfated glycosaminoglycans-like polymers. <i>Water Research</i> , <b>2020</b> , 169, 115291                                                                                                         | 12.5 | 28 |
| 829 | Stress-induced assays for polyphosphate quantification by uncoupling acetic acid uptake and anaerobic phosphorus release. <i>Water Research</i> , <b>2020</b> , 169, 115228                                                                                    | 12.5 | 11 |
| 828 | Sulfide induced phosphate release from iron phosphates and its potential for phosphate recovery. <i>Water Research</i> , <b>2020</b> , 171, 115389                                                                                                             | 12.5 | 18 |
| 827 | Impact of metal ions on structural EPS hydrogels from aerobic granular sludge. <i>Biofilm</i> , <b>2020</b> , 2, 100011                                                                                                                                        | 5.9  | 16 |
| 826 | Flame retardant property of flax fabrics coated by extracellular polymeric substances recovered from both activated sludge and aerobic granular sludge. <i>Water Research</i> , <b>2020</b> , 170, 115344                                                      | 12.5 | 32 |
| 825 | Removal of bacterial and viral indicator organisms in full-scale aerobic granular sludge and conventional activated sludge systems. <i>Water Research X</i> , <b>2020</b> , 6, 100040                                                                          | 8.1  | 15 |
| 824 | Impact of aerobic availability of readily biodegradable COD on morphological stability of aerobic granular sludge. <i>Water Research</i> , <b>2020</b> , 187, 116402                                                                                           | 12.5 | 14 |
| 823 | Genomic analysis of <i>Caldalkalibacillus thermarum</i> TA2.A1 reveals aerobic alkaliphilic metabolism and evolutionary hallmarks linking alkaliphilic bacteria and plant life. <i>Extremophiles</i> , <b>2020</b> , 24, 923-935                               | 3    | 2  |
| 822 | A settling model for full-scale aerobic granular sludge. <i>Water Research</i> , <b>2020</b> , 186, 116135                                                                                                                                                     | 12.5 | 15 |
| 821 | The role of the external mass transfer resistance in nitrite oxidizing bacteria repression in biofilm-based partial nitritation/anammox reactors. <i>Water Research</i> , <b>2020</b> , 186, 116348                                                            | 12.5 | 13 |
| 820 | Hydroxylamine metabolism of <i>Ca. Kuenenia stuttgartiensis</i> . <i>Water Research</i> , <b>2020</b> , 184, 116188                                                                                                                                            | 12.5 | 8  |
| 819 | Heterogeneous diffusion in aerobic granular sludge. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3809-3819                                                                                                                                     | 12.5 | 6  |

|     |                                                                                                                                                                                                                                         |      |    |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 818 | Biotechnology for Gas-to-Liquid (GTL) Wastewater Treatment: A Review. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2126                                                                                                               | 3    | 2  |
| 817 | Revealing the Metabolic Flexibility of " <i>Accumulibacter phosphatis</i> " through Redox Cofactor Analysis and Metabolic Network Modeling. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,                           | 4.8  | 10 |
| 816 | Effect of phosphate availability on biofilm formation in cooling towers. <i>Biofouling</i> , <b>2020</b> , 36, 800-815                                                                                                                  | 3.3  | 5  |
| 815 | Ammonia removal from mixed dewatering liquors by three different deammonification technologies. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 3440-3450                                                | 4.2  | 1  |
| 814 | Strength characterization of full-scale aerobic granular sludge. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 41, 1637-1647                                                                                         | 2.6  | 9  |
| 813 | Elucidating performance failures in use of granular sludge for nutrient removal from domestic wastewater in a warm coastal climate region. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 41, 1896-1911 <sup>13</sup> | 2.6  | 13 |
| 812 | Biogenic iron oxides for phosphate removal. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 41, 260-266                                                                                                                | 2.6  | 7  |
| 811 | When and why do gradients of the gas phase composition and pressure affect liquid-gas transfer?. <i>Water Research</i> , <b>2020</b> , 178, 115844                                                                                      | 12.5 | 8  |
| 810 | Isolation and Identification of Organics-Degrading Bacteria From Gas-to-Liquid Process Water. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 603305                                                            | 5.8  | 2  |
| 809 | Dynamic simulation of N2O emissions from a full-scale partial nitrification reactor. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 152, 107356                                                                                 | 4.2  | 5  |
| 808 | Pilot-Scale Assessment of Urea as a Chemical Cleaning Agent for Biofouling Control in Spiral-Wound Reverse Osmosis Membrane Elements. <i>Membranes</i> , <b>2019</b> , 9,                                                               | 3.8  | 9  |
| 807 | Electrochemical pretreatment for stabilization of waste activated sludge: Simultaneously enhancing dewaterability, inactivating pathogens and mitigating hydrogen sulfide. <i>Water Research</i> , <b>2019</b> , 166, 115035            | 12.5 | 34 |
| 806 | Dynamics of humic substance composition during anaerobic digestion of excess activated sludge. <i>International Biodeterioration and Biodegradation</i> , <b>2019</b> , 145, 104771                                                     | 4.8  | 16 |
| 805 | The leakage of sewer systems and the impact on the 'black and odorous water bodies' and WWTPs in China. <i>Water Science and Technology</i> , <b>2019</b> , 79, 334-341                                                                 | 2.2  | 12 |
| 804 | Environmental impacts of resource recovery from wastewater treatment plants. <i>Water Research</i> , <b>2019</b> , 160, 268-277                                                                                                         | 12.5 | 56 |
| 803 | Adaptation of semi-continuous anaerobic sludge digestion to humic acids. <i>Water Research</i> , <b>2019</b> , 161, 329-334                                                                                                             | 12.5 | 25 |
| 802 | Metabolism of sucrose in a non-fermentative <i>Escherichia coli</i> under oxygen limitation. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 6245-6256                                                               | 5.7  | 3  |
| 801 | Determinants of presence and removal of antibiotic resistance genes during WWTP treatment: A cross-sectional study. <i>Water Research</i> , <b>2019</b> , 161, 319-328                                                                  | 12.5 | 68 |



|     |                                                                                                                                                                                                                                  |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 800 | "Candidatus Accumulibacter delftensis": A clade IC novel polyphosphate-accumulating organism without denitrifying activity on nitrate. <i>Water Research</i> , <b>2019</b> , 161, 136-151                                        | 12.5 | 32  |
| 799 | Energy recovery from wastewater: Heat over organics. <i>Water Research</i> , <b>2019</b> , 161, 74-77                                                                                                                            | 12.5 | 64  |
| 798 | Importance of Species Sorting and Immigration on the Bacterial Assembly of Different-Sized Aggregates in a Full-Scale Aerobic Granular Sludge Plant. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8291-8301 | 10.3 | 46  |
| 797 | Magnetic separation and characterization of vivianite from digested sewage sludge. <i>Separation and Purification Technology</i> , <b>2019</b> , 224, 564-579                                                                    | 8.3  | 40  |
| 796 | NanoSIMS reveals unusual enrichment of acetate and propionate by an anammox consortium dominated by <i>Jettenia asiatica</i> . <i>Water Research</i> , <b>2019</b> , 159, 223-232                                                | 12.5 | 20  |
| 795 | A Case Study on Technical and Social Aspects of Earth Houses in Rural India. <i>Springer Transactions in Civil and Environmental Engineering</i> , <b>2019</b> , 105-115                                                         | 0.4  | 2   |
| 794 | Fe(III) reduction and vivianite formation in activated sludge. <i>Separation and Purification Technology</i> , <b>2019</b> , 220, 126-135                                                                                        | 8.3  | 21  |
| 793 | Adsorption as a technology to achieve ultra-low concentrations of phosphate: Research gaps and economic analysis. <i>Water Research X</i> , <b>2019</b> , 4, 100029                                                              | 8.1  | 102 |
| 792 | Chemical characterization methods for the analysis of structural extracellular polymeric substances (EPS). <i>Water Research</i> , <b>2019</b> , 157, 201-208                                                                    | 12.5 | 90  |
| 791 | Biofilm compressibility in ultrafiltration: A relation between biofilm morphology, mechanics and hydraulic resistance. <i>Water Research</i> , <b>2019</b> , 157, 335-345                                                        | 12.5 | 16  |
| 790 | Effect of Lactate on the Microbial Community and Process Performance of an EBPR System. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 125                                                                                 | 5.7  | 15  |
| 789 | Resource recovery and wastewater treatment modelling. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 631-642                                                                                     | 4.2  | 43  |
| 788 | Reply to 'Evolutionary placement of Methanonatronarchaeia'. <i>Nature Microbiology</i> , <b>2019</b> , 4, 560-561                                                                                                                | 26.6 | 2   |
| 787 | A Novel D-Galacturonate Fermentation Pathway in Links Initial Reactions of the Galacturonate-Isomerase Route With the Phosphoketolase Pathway. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 3027                         | 5.7  | 5   |
| 786 | Effect of Iron on Phosphate Recovery from Sewage Sludge <b>2019</b> , 303-326                                                                                                                                                    |      | 3   |
| 785 | Solubilization and characterization of extracellular proteins from anammox granular sludge. <i>Water Research</i> , <b>2019</b> , 164, 114952                                                                                    | 12.5 | 34  |
| 784 | The impact of mixtures of xylose and glucose on the microbial diversity and fermentative metabolism of sequencing-batch or continuous enrichment cultures. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,                  | 4.3  | 1   |
| 783 | Recovery of high-value and scarce resources from biological wastewater treatment: Sulfated polysaccharides. <i>Water Research</i> , <b>2019</b> , 163, 114889                                                                    | 12.5 | 19  |

|     |                                                                                                                                                                                                                |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 782 | Coupling of sulfur(thiosulfate)-driven denitratation and anammox process to treat nitrate and ammonium contained wastewater. <i>Water Research</i> , <b>2019</b> , 163, 114854                                 | 12.5 | 32  |
| 781 | New Training to Meet the Global Phosphorus Challenge. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8479-8481                                                                              | 10.3 | 19  |
| 780 | Synergetic alginate conversion by a microbial consortium of hydrolytic bacteria and methanogens. <i>Water Research</i> , <b>2019</b> , 163, 114892                                                             | 12.5 | 19  |
| 779 | The full energy cost of avoiding CO <sub>2</sub> : A clean-energy booking provision for a vigorous energy transition. <i>Journal of Cleaner Production</i> , <b>2019</b> , 237, 117820                         | 10.3 | 2   |
| 778 | Long term performance and dynamics of microbial biofilm communities performing sulfur-oxidizing autotrophic denitrification in a moving-bed biofilm reactor. <i>Water Research</i> , <b>2019</b> , 166, 115038 | 12.5 | 28  |
| 777 | Sialic acids in the extracellular polymeric substances of seawater-adapted aerobic granular sludge. <i>Water Research</i> , <b>2019</b> , 155, 343-351                                                         | 12.5 | 20  |
| 776 | Denitrification as an NO sink. <i>Water Research</i> , <b>2019</b> , 151, 381-387                                                                                                                              | 12.5 | 60  |
| 775 | Effect of humic acids on batch anaerobic digestion of excess sludge. <i>Water Research</i> , <b>2019</b> , 155, 431-443                                                                                        | 12.5 | 83  |
| 774 | Microplastics in wastewater treatment plants: Detection, occurrence and removal. <i>Water Research</i> , <b>2019</b> , 152, 21-37                                                                              | 12.5 | 531 |
| 773 | Recent advances in dissimilatory sulfate reduction: From metabolic study to application. <i>Water Research</i> , <b>2019</b> , 150, 162-181                                                                    | 12.5 | 60  |
| 772 | Modelling anaerobic, aerobic and partial nitrification-anammox granular sludge reactors - A review. <i>Water Research</i> , <b>2019</b> , 149, 322-341                                                         | 12.5 | 52  |
| 771 | Role of feed water biodegradable substrate concentration on biofouling: Biofilm characteristics, membrane performance and cleanability. <i>Water Research</i> , <b>2019</b> , 150, 1-11                        | 12.5 | 14  |
| 770 | Stratification of nitrifier guilds in granular sludge in relation to nitrification. <i>Water Research</i> , <b>2019</b> , 148, 479-491                                                                         | 12.5 | 21  |
| 769 | The future of WRRF modelling - outlook and challenges. <i>Water Science and Technology</i> , <b>2019</b> , 79, 3-14                                                                                            | 2.2  | 21  |
| 768 | Diversity and metabolism of xylose and glucose fermenting microbial communities in sequencing batch or continuous culturing. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,                              | 4.3  | 15  |
| 767 | Extracellular polymeric substances of biofilms: Suffering from an identity crisis. <i>Water Research</i> , <b>2019</b> , 151, 1-7                                                                              | 12.5 | 138 |
| 766 | Effect of pore size distribution and particle size of porous metal oxides on phosphate adsorption capacity and kinetics. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 160-169                      | 14.7 | 97  |
| 765 | Towards mainstream anammox: lessons learned from pilot-scale research at WWTP Dokhaven. <i>Environmental Technology (United Kingdom)</i> , <b>2019</b> , 40, 1721-1733                                         | 2.6  | 37  |

|     |                                                                                                                                                                                                                                                                      |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 764 | Application of monochloramine for wastewater reuse: Effect on biostability during transport and biofouling in RO membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 551, 243-253                                                                          | 9.6  | 17  |
| 763 | Growth yield and selection of nosZ clade II types in a continuous enrichment culture of N O respiring bacteria. <i>Environmental Microbiology Reports</i> , <b>2018</b> , 10, 239-244                                                                                | 3.7  | 19  |
| 762 | Evaluating death and activity decay of Anammox bacteria during anaerobic and aerobic starvation. <i>Chemosphere</i> , <b>2018</b> , 201, 25-31                                                                                                                       | 8.4  | 38  |
| 761 | Glycosylated amyloid-like proteins in the structural extracellular polymers of aerobic granular sludge enriched with ammonium-oxidizing bacteria. <i>MicrobiologyOpen</i> , <b>2018</b> , 7, e00616                                                                  | 3.4  | 33  |
| 760 | Review on strategies for biofouling mitigation in spiral wound membrane systems. <i>Desalination</i> , <b>2018</b> , 434, 189-197                                                                                                                                    | 10.3 | 51  |
| 759 | Hygienic water production in an innovative air lift bioreactor followed by high antifouling ultrafiltration membranes modified by layer-by-layer assembly. <i>Journal of Cleaner Production</i> , <b>2018</b> , 182, 27-37                                           | 10.3 | 13  |
| 758 | A framework for good biofilm reactor modeling practice (GBRMP). <i>Water Science and Technology</i> , <b>2018</b> , 77, 1149-1164                                                                                                                                    | 2.2  | 20  |
| 757 | Effective role of medium supplementation in microalgal lipid accumulation. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1152-1160                                                                                                                    | 4.9  | 11  |
| 756 | Life on NO: deciphering the ecophysiology of NO respiring bacterial communities in a continuous culture. <i>ISME Journal</i> , <b>2018</b> , 12, 1142-1153                                                                                                           | 11.9 | 44  |
| 755 | Influence of carbon to nitrogen ratio on nitrous oxide emission in an Integrated Fixed Film Activated Sludge Membrane BioReactor plant. <i>Journal of Cleaner Production</i> , <b>2018</b> , 176, 1078-1090                                                          | 10.3 | 26  |
| 754 | Characterization of the bacterial community in shower water before and after chlorination. <i>Journal of Water and Health</i> , <b>2018</b> , 16, 233-243                                                                                                            | 2.2  | 4   |
| 753 | Exploring microbial N O reduction: a continuous enrichment in nitrogen free medium. <i>Environmental Microbiology Reports</i> , <b>2018</b> , 10, 102-107                                                                                                            | 3.7  | 9   |
| 752 | Relating NO emissions during biological nitrogen removal with operating conditions using multivariate statistical techniques. <i>Water Research</i> , <b>2018</b> , 140, 387-402                                                                                     | 12.5 | 27  |
| 751 | Feasibility analysis of anaerobic digestion of excess sludge enhanced by iron: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 89, 16-26                                                                                                   | 16.2 | 115 |
| 750 | A sustainability-based evaluation of membrane bioreactors over conventional activated sludge processes. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 2597-2605                                                                            | 6.8  | 30  |
| 749 | Evaluating the process performance and potential of a high-rate single airlift bioreactor for simultaneous carbon and nitrogen removal through coupling different pathways from a nitrogen-rich wastewater. <i>Bioresource Technology</i> , <b>2018</b> , 260, 44-52 | 11   | 12  |
| 748 | Deterioration of the anammox process at decreasing temperatures and long SRTs. <i>Environmental Technology (United Kingdom)</i> , <b>2018</b> , 39, 658-668                                                                                                          | 2.6  | 34  |
| 747 | Importance of hydroxylamine in abiotic N <sub>2</sub> O production during transient anoxia in planktonic axenic Nitrosomonas cultures. <i>Chemical Engineering Journal</i> , <b>2018</b> , 335, 756-762                                                              | 14.7 | 15  |

|     |                                                                                                                                                                                                                                                                                                                                                                         |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 746 | Sludge reduction by ozone: Insights and modeling of the dose-response effects. <i>Journal of Environmental Management</i> , <b>2018</b> , 206, 103-112                                                                                                                                                                                                                  | 7.9  | 23  |
| 745 | Galacturonate Metabolism in Anaerobic Chemostat Enrichment Cultures: Combined Fermentation and Acetogenesis by the Dominant sp. nov. "Candidatus Galacturonibacter soehngeni". <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,                                                                                                                        | 4.8  | 4   |
| 744 | Effect of Salt on the Metabolism of 'Accumulibacter' Clade I and II. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 479                                                                                                                                                                                                                                            | 5.7  | 7   |
| 743 | Incorporating the influent cellulose fraction in activated sludge modelling. <i>Water Research</i> , <b>2018</b> , 144, 104-111                                                                                                                                                                                                                                         | 12.5 | 15  |
| 742 | Vivianite as the main phosphate mineral in digested sewage sludge and its role for phosphate recovery. <i>Water Research</i> , <b>2018</b> , 144, 312-321                                                                                                                                                                                                               | 12.5 | 109 |
| 741 | Effect of biofilm structural deformation on hydraulic resistance during ultrafiltration: A numerical and experimental study. <i>Water Research</i> , <b>2018</b> , 145, 375-387                                                                                                                                                                                         | 12.5 | 23  |
| 740 | Pilot-Scale Polyhydroxyalkanoate Production from Paper Mill Wastewater: Process Characteristics and Identification of Bottlenecks for Full-Scale Implementation. <i>Journal of Environmental Engineering, ASCE</i> , <b>2018</b> , 144, 04018107                                                                                                                        | 2    | 25  |
| 739 | Understanding and improving the reusability of phosphate adsorbents for wastewater effluent polishing. <i>Water Research</i> , <b>2018</b> , 145, 365-374                                                                                                                                                                                                               | 12.5 | 31  |
| 738 | Mapping Cellulose Content and Degradability in Water Resource Recovery Facilities: European and North-American Case Studies. <i>Proceedings of the Water Environment Federation</i> , <b>2018</b> , 2018, 98-105                                                                                                                                                        |      |     |
| 737 | Effects of F/M ratio and Feast-Famine Condition on NO <sub>2</sub> Accumulation During Denitrification. <i>Proceedings of the Water Environment Federation</i> , <b>2018</b> , 2018, 4683-4694                                                                                                                                                                          |      |     |
| 736 | Methanonatronarchaeum thermophilum gen. nov., sp. nov. and 'Candidatus Methanohalarchaeum thermophilum', extremely halo(natrono)philic methyl-reducing methanogens from hypersaline lakes comprising a new euryarchaeal class Methanonatronarchaeia classis nov. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2018</b> , 68, 2199-2208 | 2.2  | 43  |
| 735 | Enrichment of PHA-producing bacteria under continuous substrate supply. <i>New Biotechnology</i> , <b>2018</b> , 41, 55-61                                                                                                                                                                                                                                              | 6.4  | 17  |
| 734 | Stability of aerobic granules during long-term bioreactor operation. <i>Biotechnology Advances</i> , <b>2018</b> , 36, 228-246                                                                                                                                                                                                                                          | 17.8 | 128 |
| 733 | Impact of Distribution and Network Flushing on the Drinking Water Microbiome. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2205                                                                                                                                                                                                                                  | 5.7  | 21  |
| 732 | Controlling effluent suspended solids in the aerobic granular sludge process. <i>Water Research</i> , <b>2018</b> , 147, 50-59                                                                                                                                                                                                                                          | 12.5 | 29  |
| 731 | Greenhouse gas emissions from membrane bioreactors: analysis of a two-year survey on different MBR configurations. <i>Water Science and Technology</i> , <b>2018</b> , 78, 896-903                                                                                                                                                                                      | 2.2  | 4   |
| 730 | Enhanced biofilm solubilization by urea in reverse osmosis membrane systems. <i>Water Research X</i> , <b>2018</b> , 1, 100004                                                                                                                                                                                                                                          | 8.1  | 12  |
| 729 | Identification of Glycoproteins Isolated from Extracellular Polymeric Substances of Full-Scale Anammox Granular Sludge. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13127-13135                                                                                                                                                                   | 10.3 | 54  |

|     |                                                                                                                                                                                                                                                                                        |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 728 | The influence of dissolved oxygen on partial nitrification/anammox performance and microbial community of the 200,000 m <sup>3</sup> /d activated sludge process at the Changi water reclamation plant (2011 to 2016). <i>Water Science and Technology</i> , <b>2018</b> , 78, 634-643 | 2.2  | 34  |
| 727 | Modelling aerobic granular sludge reactors through apparent half-saturation coefficients. <i>Water Research</i> , <b>2018</b> , 146, 134-145                                                                                                                                           | 12.5 | 25  |
| 726 | O versus NO respiration in a continuous microbial enrichment. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 8943-8950                                                                                                                                             | 5.7  | 12  |
| 725 | Sulfate reducing bacteria applied to domestic wastewater. <i>Water Practice and Technology</i> , <b>2018</b> , 13, 542-554                                                                                                                                                             | 5.4  | 12  |
| 724 | Experimental design for evaluating WWTP data by linear mass balances. <i>Water Research</i> , <b>2018</b> , 142, 415-425                                                                                                                                                               | 4.5  | 13  |
| 723 | Biological sulfur oxidation in wastewater treatment: A review of emerging opportunities. <i>Water Research</i> , <b>2018</b> , 143, 399-415                                                                                                                                            | 12.5 | 112 |
| 722 | Discovery and metagenomic analysis of an anammox bacterial enrichment related to <i>Candidatus "Brocadia caroliniensis"</i> in a full-scale glycerol-fed nitrification-denitrification separate centrate treatment process. <i>Water Research</i> , <b>2017</b> , 111, 265-273         | 12.5 | 71  |
| 721 | From biofilm ecology to reactors: a focused review. <i>Water Science and Technology</i> , <b>2017</b> , 75, 1753-1760                                                                                                                                                                  | 2.2  | 49  |
| 720 | Mainstream partial nitrification-anammox in municipal wastewater treatment: status, bottlenecks, and further studies. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 1365-1383                                                                                     | 5.7  | 364 |
| 719 | Batch influences of exogenous hydrogen on both acidogenesis and methanogenesis of excess sludge. <i>Chemical Engineering Journal</i> , <b>2017</b> , 317, 544-550                                                                                                                      | 14.7 | 13  |
| 718 | Nitrous oxide emission in a University of Cape Town membrane bioreactor: The effect of carbon to nitrogen ratio. <i>Journal of Cleaner Production</i> , <b>2017</b> , 149, 180-190                                                                                                     | 10.3 | 24  |
| 717 | Evaluating the potential for dissimilatory nitrate reduction by anammox bacteria for municipal wastewater treatment. <i>Bioresource Technology</i> , <b>2017</b> , 233, 363-372                                                                                                        | 11   | 79  |
| 716 | Enrichment and characterization of a psychrophilic <i>Candidatus Accumulibacter phosphatis</i> culture. <i>International Biodeterioration and Biodegradation</i> , <b>2017</b> , 124, 267-275                                                                                          | 4.8  | 3   |
| 715 | Porosity of spacer-filled channels in spiral-wound membrane systems: Quantification methods and impact on hydraulic characterization. <i>Water Research</i> , <b>2017</b> , 119, 304-311                                                                                               | 12.5 | 25  |
| 714 | Cooperation between <i>Candidatus Competibacter</i> and <i>Candidatus Accumulibacter</i> clade I, in denitrification and phosphate removal processes. <i>Water Research</i> , <b>2017</b> , 120, 156-164                                                                               | 12.5 | 85  |
| 713 | Improving the accuracy of granular sludge and biofilm reactor simulations in Aquasim through artificial diffusion. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 2131-2136                                                                                              | 4.9  | 5   |
| 712 | Role of nitrite in the competition between denitrification and DNRA in a chemostat enrichment culture. <i>AMB Express</i> , <b>2017</b> , 7, 91                                                                                                                                        | 4.1  | 27  |
| 711 | Effect of pore size distribution on iron oxide coated granular activated carbons for phosphate adsorption Importance of mesopores. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 231-239                                                                                    | 14.7 | 71  |

|     |                                                                                                                                                                                                                                                                        |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 710 | Sulfide effects on the anaerobic metabolism of polyphosphate-accumulating organisms. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 68-77                                                                                                                    | 14.7 | 16  |
| 709 | Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. <i>Nature Microbiology</i> , <b>2017</b> , 2, 17081                                                                                   | 26.6 | 126 |
| 708 | The acid soluble extracellular polymeric substance of aerobic granular sludge dominated by <i>Defluviicoccus</i> sp. <i>Water Research</i> , <b>2017</b> , 122, 148-158                                                                                                | 12.5 | 47  |
| 707 | Analysing the mechanisms of sludge digestion enhanced by iron. <i>Water Research</i> , <b>2017</b> , 117, 58-67                                                                                                                                                        | 12.5 | 90  |
| 706 | Long-term effects of sulphide on the enhanced biological removal of phosphorus: The symbiotic role of <i>Thiothrix caldifontis</i> . <i>Water Research</i> , <b>2017</b> , 116, 53-64                                                                                  | 12.5 | 58  |
| 705 | Predicting the impact of feed spacer modification on biofouling by hydraulic characterization and biofouling studies in membrane fouling simulators. <i>Water Research</i> , <b>2017</b> , 110, 281-287                                                                | 12.5 | 30  |
| 704 | The occurrence of enhanced biological phosphorus removal in a 200,000 m <sup>3</sup> /day partial nitrification and Anammox activated sludge process at the Changi water reclamation plant, Singapore. <i>Water Science and Technology</i> , <b>2017</b> , 75, 741-751 | 2.2  | 30  |
| 703 | Eukaryotic community diversity and spatial variation during drinking water production (by seawater desalination) and distribution in a full-scale network. <i>Environmental Science: Water Research and Technology</i> , <b>2017</b> , 3, 92-105                       | 4.2  | 8   |
| 702 | Impact of phosphate limitation on PHA production in a feast-famine process. <i>Water Research</i> , <b>2017</b> , 126, 472-480                                                                                                                                         | 12.5 | 24  |
| 701 | Enrichment of highly settleable microalgal consortia in mixed cultures for effluent polishing and low-cost biomass production. <i>Water Research</i> , <b>2017</b> , 125, 11-22                                                                                        | 12.5 | 42  |
| 700 | Effects of operational models (batch, continuous and CFID modes) on the performance of a single A2O airlift bioreactor for treatment of milk processing wastewater. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 125, 471-482                       | 5.5  | 5   |
| 699 | Gradual adaptation to salt and dissolved oxygen: Strategies to minimize adverse effect of salinity on aerobic granular sludge. <i>Water Research</i> , <b>2017</b> , 124, 702-712                                                                                      | 12.5 | 49  |
| 698 | Effects of electron acceptors on sulphate reduction activity in activated sludge processes. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 6229-6240                                                                                               | 5.7  | 11  |
| 697 | Effect of temperature on NO emissions from a highly enriched nitrifying granular sludge performing partial nitrification of a low-strength wastewater. <i>Chemosphere</i> , <b>2017</b> , 185, 336-343                                                                 | 8.4  | 24  |
| 696 | Dynamic modeling of nutrient removal by a MBR operated at elevated temperatures. <i>Water Research</i> , <b>2017</b> , 123, 420-428                                                                                                                                    | 12.5 | 14  |
| 695 | Sulphide effects on the physiology of <i>Candidatus Accumulibacter phosphatis</i> type I. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 1661-1672                                                                                                 | 5.7  | 14  |
| 694 | Extracting DNA from ocean microplastics: a method comparison study. <i>Analytical Methods</i> , <b>2017</b> , 9, 1521-1526                                                                                                                                             | 13.5 | 28  |
| 693 | Aerobic granular biomass technology: advancements in design, applications and further developments. <i>Water Practice and Technology</i> , <b>2017</b> , 12, 987-996                                                                                                   | 0.9  | 41  |

|     |                                                                                                                                                                                                                              |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 692 | Microscale Quantitative Analysis of Polyhydroxybutyrate in Prokaryotes Using IDMS. <i>Metabolites</i> , <b>2017</b> , 7,                                                                                                     | 5.6  | 3   |
| 691 | Fermentative Bacteria Influence the Competition between Denitrifiers and DNRA Bacteria. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1684                                                                             | 5.7  | 39  |
| 690 | Aerobic Granular Sludge. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , <b>2017</b> , 231-263                                                                                             | 0.4  | 1   |
| 689 | Greenhouse Gas Emissions from Membrane Bioreactors. <i>Lecture Notes in Civil Engineering</i> , <b>2017</b> , 385-391                                                                                                        | 0.3  |     |
| 688 | Experimental Methods in Wastewater Treatment. <i>Water Intelligence Online</i> , <b>2016</b> , 15, 9781780404752-9781780404752                                                                                               | 0.4  | 1   |
| 687 | Nitrogen removal by ANAMMOX and simultaneous nitrification-denitrification (SND) processes in a novel single airlift bioreactor. <i>RSC Advances</i> , <b>2016</b> , 6, 74367-74371                                          | 3.7  | 14  |
| 686 | Vivianite as an important iron phosphate precipitate in sewage treatment plants. <i>Water Research</i> , <b>2016</b> , 104, 449-460                                                                                          | 12.5 | 92  |
| 685 | Non-Linear Data Reconciliation for a Partial Nitritation (SHARON) Reactor. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 1139-1144                                                                                            | 0.7  | 3   |
| 684 | Metatranscriptomics reveals the molecular mechanism of large granule formation in granular anammox reactor. <i>Scientific Reports</i> , <b>2016</b> , 6, 28327                                                               | 4.9  | 26  |
| 683 | Denitrification of nitrate and nitrite by 'Candidatus Accumulibacter phosphatis' clade IC. <i>Water Research</i> , <b>2016</b> , 105, 97-109                                                                                 | 12.5 | 32  |
| 682 | Prevalence of 'Candidatus Accumulibacter phosphatis' type II under phosphate limiting conditions. <i>AMB Express</i> , <b>2016</b> , 6, 44                                                                                   | 4.1  | 20  |
| 681 | Effect of water temperature on biofouling development in reverse osmosis membrane systems. <i>Water Research</i> , <b>2016</b> , 103, 149-159                                                                                | 12.5 | 39  |
| 680 | Syntrophic associations from hypersaline soda lakes converting organic acids and alcohols to methane at extremely haloalkaline conditions. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 3189-202                    | 5.2  | 21  |
| 679 | Effects of the residual ammonium concentration on NOB repression during partial nitritation with granular sludge. <i>Water Research</i> , <b>2016</b> , 106, 518-530                                                         | 12.5 | 104 |
| 678 | Detection of comammox bacteria in full-scale wastewater treatment bioreactors using tag-454-pyrosequencing. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 25501-25511                              | 5.1  | 51  |
| 677 | Extraction of Structural Extracellular Polymeric Substances from Aerobic Granular Sludge. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,                                                                           | 1.6  | 35  |
| 676 | Limitation of syntrophic coculture growth by the acetogen. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 560-7                                                                                                | 4.9  | 14  |
| 675 | Combining the enrichment and accumulation step in non-axenic PHA production: Cultivation of <i>Plasticicumulans acidivorans</i> at high volume exchange ratios. <i>Journal of Biotechnology</i> , <b>2016</b> , 231, 260-267 | 3.7  | 13  |

|     |                                                                                                                                                                                                                                                            |      |    |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 674 | Full-Scale Highly-Loaded Wastewater Treatment Processes (A-Stage) to Increase Energy Production from Wastewater: Performance and Design Guidelines. <i>Environmental Engineering Science</i> , <b>2016</b> , 33, 571-577                                   | 2    | 38 |
| 673 | Survival of the fastest: Selective removal of the side population for enhanced PHA production in a mixed substrate enrichment. <i>Bioresource Technology</i> , <b>2016</b> , 216, 1022-9                                                                   | 11   | 23 |
| 672 | High rate simultaneous nutrients removal in a single air lift bioreactor with continuous feed and intermittent discharge regime: Process optimization and effect of feed characteristics. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 200-209 | 14.7 | 22 |
| 671 | Respirometric characterization of aerobic sulfide, thiosulfate and elemental sulfur oxidation by S-oxidizing biomass. <i>Water Research</i> , <b>2016</b> , 89, 282-92                                                                                     | 12.5 | 39 |
| 670 | Kinetics of CaCO <sub>3</sub> precipitation in an anaerobic digestion process integrated with silicate minerals. <i>Ecological Engineering</i> , <b>2016</b> , 86, 105-112                                                                                 | 3.9  | 11 |
| 669 | Importance of abiotic hydroxylamine conversion on nitrous oxide emissions during nitrification of reject water. <i>Chemical Engineering Journal</i> , <b>2016</b> , 287, 720-726                                                                           | 14.7 | 45 |
| 668 | Adaptation of Sulfate-Reducing Bacteria to Sulfide Exposure. <i>Environmental Engineering Science</i> , <b>2016</b> , 33, 242-249                                                                                                                          | 2    | 6  |
| 667 | PHA production from the organic fraction of municipal solid waste (OFMSW): Overcoming the inhibitory matrix. <i>Water Research</i> , <b>2016</b> , 96, 74-83                                                                                               | 12.5 | 64 |
| 666 | A novel continuous feed and intermittent discharge airlift bioreactor (CFIDAB) for enhanced simultaneous removal of carbon and nutrients from soft drink industrial wastewater. <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 13-27             | 14.7 | 23 |
| 665 | Bacterial community structure and variation in a full-scale seawater desalination plant for drinking water production. <i>Water Research</i> , <b>2016</b> , 94, 62-72                                                                                     | 12.5 | 61 |
| 664 | Distribution and microbial community structure analysis of a single-stage partial nitrification/anammox granular sludge bioreactor operating at low temperature. <i>Environmental Technology (United Kingdom)</i> , <b>2016</b> , 37, 2281-91              | 2.6  | 22 |
| 663 | Haloalkaline Bioconversions for Methane Production from Microalgae Grown on Sunlight. <i>Trends in Biotechnology</i> , <b>2016</b> , 34, 450-457                                                                                                           | 15.1 | 10 |
| 662 | Development and characterization of 3D-printed feed spacers for spiral wound membrane systems. <i>Water Research</i> , <b>2016</b> , 91, 55-67                                                                                                             | 12.5 | 69 |
| 661 | Optimal WWTP process selection for treatment of domestic wastewater [A realistic full-scale retrofitting study]. <i>Chemical Engineering Journal</i> , <b>2016</b> , 286, 447-458                                                                          | 14.7 | 27 |
| 660 | Analysing the effects of the aeration pattern and residual ammonium concentration in a partial nitrification-anammox process. <i>Environmental Technology (United Kingdom)</i> , <b>2016</b> , 37, 694-702                                                 | 2.6  | 34 |
| 659 | Influence of silicate on enrichment of highly productive microalgae from a mixed culture. <i>Journal of Applied Phycology</i> , <b>2016</b> , 28, 1453-1457                                                                                                | 3.2  | 7  |
| 658 | Kinetic and thermodynamic control of butyrate conversion in non-defined methanogenic communities. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 915-25                                                                                | 5.7  | 21 |
| 657 | Identifying N <sub>2</sub> O formation and emissions from a full-scale partial nitrification reactor. <i>Water Research</i> , <b>2016</b> , 88, 575-585                                                                                                    | 12.5 | 35 |



|     |                                                                                                                                                                                                                                          |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 656 | Metabolic Response of " Accumulibacter Phosphatis" Clade II C to Changes in Influent P/C Ratio. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 2121                                                                                 | 5.7  | 22  |
| 655 | Cellulose: a key polymer for a greener, healthier, and bio-based future. <i>Biofuel Research Journal</i> , <b>2016</b> , 3, 482-482                                                                                                      | 13.9 | 9   |
| 654 | Biological Stability of Drinking Water: Controlling Factors, Methods, and Challenges. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 45                                                                                             | 5.7  | 183 |
| 653 | DNRA and Denitrification Coexist over a Broad Range of Acetate/N-NO Ratios, in a Chemostat Enrichment Culture. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1842                                                                  | 5.7  | 56  |
| 652 | Long-Term Bacterial Dynamics in a Full-Scale Drinking Water Distribution System. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164445                                                                                                            | 3.7  | 53  |
| 651 | Mainstream partial nitrification and anammox in a 200,000 m <sup>3</sup> /day activated sludge process in Singapore: scale-down by using laboratory fed-batch reactor. <i>Water Science and Technology</i> , <b>2016</b> , 74, 48-56     | 2.2  | 49  |
| 650 | Selection of ammonium oxidizing bacteria (AOB) over nitrite oxidizing bacteria (NOB) based on conversion rates. <i>Chemical Engineering Journal</i> , <b>2016</b> , 304, 953-961                                                         | 14.7 | 48  |
| 649 | Aerobic Granular Biomass Technology: recent performance data, lessons learnt and retrofitting conventional treatment infrastructure. <i>Proceedings of the Water Environment Federation</i> , <b>2016</b> , 2016, 1913-1923              |      | 4   |
| 648 | Impact of cell cluster size on apparent half-saturation coefficients for oxygen in nitrifying sludge and biofilms. <i>Water Research</i> , <b>2016</b> , 106, 371-382                                                                    | 12.5 | 66  |
| 647 | Sustainable Application of a Novel Water Cycle Using Seawater for Toilet Flushing. <i>Engineering</i> , <b>2016</b> , 2, 460-469                                                                                                         | 9.7  | 16  |
| 646 | A systematic approach for the assessment of bacterial growth-controlling factors linked to biological stability of drinking water in distribution systems. <i>Water Science and Technology: Water Supply</i> , <b>2016</b> , 16, 865-880 | 1.4  | 24  |
| 645 | Comparison of bacterial communities of conventional and A-stage activated sludge systems. <i>Scientific Reports</i> , <b>2016</b> , 6, 18786                                                                                             | 4.9  | 64  |
| 644 | Large-scale demonstration of the sulfate reduction autotrophic denitrification nitrification integrated (SANI(□)) process in saline sewage treatment. <i>Water Research</i> , <b>2016</b> , 100, 496-507                                 | 12.5 | 107 |
| 643 | A simple model to describe the performance of highly-loaded aerobic COD removal reactors. <i>Biochemical Engineering Journal</i> , <b>2016</b> , 112, 94-102                                                                             | 4.2  | 26  |
| 642 | Spatial heterogeneity of biofouling under different cross-flow velocities in reverse osmosis membrane systems. <i>Journal of Membrane Science</i> , <b>2016</b> , 520, 964-971                                                           | 9.6  | 11  |
| 641 | Impact of salinity on the aerobic metabolism of phosphate-accumulating organisms. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 3659-72                                                                              | 5.7  | 18  |
| 640 | Starch productivity in cyclically operated photobioreactors with marine microalgae: Effect of ammonium addition regime and volume exchange ratio. <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 1121-1126                      | 3.2  | 11  |
| 639 | Sustainable polysaccharide-based biomaterial recovered from waste aerobic granular sludge as a surface coating material. <i>Sustainable Materials and Technologies</i> , <b>2015</b> , 4, 24-29                                          | 5.3  | 44  |

|     |                                                                                                                                                                                                                                          |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 638 | Accumulibacter clades Type I and II performing kinetically different glycogen-accumulating organisms metabolisms for anaerobic substrate uptake. <i>Water Research</i> , <b>2015</b> , 83, 354-66                                        | 12.5 | 64  |
| 637 | Full scale performance of the aerobic granular sludge process for sewage treatment. <i>Water Research</i> , <b>2015</b> , 84, 207-17                                                                                                     | 12.5 | 397 |
| 636 | Long-Term Effect of Seawater on Sulfate Reduction in Wastewater Treatment. <i>Environmental Engineering Science</i> , <b>2015</b> , 32, 622-630                                                                                          | 2    | 13  |
| 635 | Seasonal and diurnal variability of N <sub>2</sub> O emissions from a full-scale municipal wastewater treatment plant. <i>Science of the Total Environment</i> , <b>2015</b> , 536, 1-11                                                 | 10.2 | 83  |
| 634 | Long-term study on the impact of temperature on enhanced biological phosphorus and nitrogen removal in membrane bioreactor. <i>Water Research</i> , <b>2015</b> , 84, 8-17                                                               | 12.5 | 26  |
| 633 | Short-range guiding can result in the formation of circular aggregates in myxobacteria populations. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004213                                                                       | 5    | 11  |
| 632 | Phosphate and arsenate removal efficiency by thermostable ferritin enzyme from <i>Pyrococcus furiosus</i> using radioisotopes. <i>Water Research</i> , <b>2015</b> , 76, 181-6                                                           | 12.5 | 21  |
| 631 | Enrichment of DNRA bacteria in a continuous culture. <i>ISME Journal</i> , <b>2015</b> , 9, 2153-61                                                                                                                                      | 11.9 | 100 |
| 630 | Novel method for online monitoring of dissolved N <sub>2</sub> O concentrations through a gas stripping device. <i>Environmental Technology (United Kingdom)</i> , <b>2015</b> , 36, 1680-90                                             | 2.6  | 16  |
| 629 | Impact of the hydrogen partial pressure on lactate degradation in a coculture of <i>Desulfovibrio</i> sp. G11 and <i>Methanobrevibacter arboriphilus</i> DH1. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 3599-608 | 5.7  | 11  |
| 628 | Effect and behaviour of different substrates in relation to the formation of aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 5257-68                                                          | 5.7  | 90  |
| 627 | Archaeal populations in full-scale autotrophic nitrogen removal bioreactors operated with different technologies: CANON, DEMON and partial nitrification/anammox. <i>Chemical Engineering Journal</i> , <b>2015</b> , 277, 194-201       | 14.7 | 27  |
| 626 | The Relevance of Phosphorus and Iron Chemistry to the Recovery of Phosphorus from Wastewater: A Review. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 9400-14                                                        | 10.3 | 271 |
| 625 | Simultaneous production of acetate and methane from glycerol by selective enrichment of hydrogenotrophic methanogens in extreme-thermophilic (70 °C) mixed culture fermentation. <i>Applied Energy</i> , <b>2015</b> , 148, 326-333      | 10.7 | 36  |
| 624 | Lipid recovery from a vegetable oil emulsion using microbial enrichment cultures. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 39                                                                                                | 7.8  | 12  |
| 623 | Potential for beneficial application of sulfate reducing bacteria in sulfate containing domestic wastewater treatment. <i>World Journal of Microbiology and Biotechnology</i> , <b>2015</b> , 31, 1675-81                                | 4.4  | 27  |
| 622 | Effects of Chemical Oxygen Demand, Nutrients and Salinity on Sulfate-Reducing Bacteria. <i>Environmental Engineering Science</i> , <b>2015</b> , 32, 858-864                                                                             | 2    | 17  |
| 621 | Comparison of bacterial diversity in full scale anammox bioreactors operated under different conditions. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 1464-72                                                                       | 2.8  | 52  |

|     |                                                                                                                                                                                                                                    |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 620 | Anaerobic digestion without biogas?. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2015</b> , 14, 787-801                                                                                                         | 8.9  | 214 |
| 619 | pH control in biological systems using calcium carbonate. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 905-13                                                                                                      | 4.9  | 13  |
| 618 | Bacterial community structure of a lab-scale anammox membrane bioreactor. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 186-93                                                                                                 | 2.8  | 33  |
| 617 | Modeling the nutrient removal process in aerobic granular sludge system by coupling the reactor- and granule-scale models. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 53-64                                      | 4.9  | 27  |
| 616 | Effect of temperature change on anammox activity. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 98-103                                                                                                              | 4.9  | 134 |
| 615 | A mathematical model for electrochemically active filamentous sulfide-oxidising bacteria. <i>Bioelectrochemistry</i> , <b>2015</b> , 102, 10-20                                                                                    | 5.6  | 9   |
| 614 | Effect of aeration regime on N <sub>2</sub> O emission from partial nitrification-anammox in a full-scale granular sludge reactor. <i>Water Research</i> , <b>2015</b> , 68, 793-803                                               | 12.5 | 93  |
| 613 | Pilot-scale evaluation of anammox-based mainstream nitrogen removal from municipal wastewater. <i>Environmental Technology (United Kingdom)</i> , <b>2015</b> , 36, 1167-77                                                        | 2.6  | 194 |
| 612 | Twenty-five years of ASM1: past, present and future of wastewater treatment modelling. <i>Journal of Hydroinformatics</i> , <b>2015</b> , 17, 697-718                                                                              | 2.6  | 30  |
| 611 | Applications of Activated Sludge Models <b>2015</b> ,                                                                                                                                                                              |      | 10  |
| 610 | Evaluation of sampling strategies for estimating ammonia emission factors for pig fattening facilities. <i>Biosystems Engineering</i> , <b>2015</b> , 140, 79-90                                                                   | 4.8  | 6   |
| 609 | High-rate volatile fatty acid (VFA) production by a granular sludge process at low pH. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 2248-55                                                                        | 4.9  | 54  |
| 608 | Modeling the competition between PHA-producing and non-PHA-producing bacteria in feast-famine SBR and staged CSTR systems. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 2475-84                                    | 4.9  | 12  |
| 607 | 454-Pyrosequencing Analysis of Bacterial Communities from Autotrophic Nitrogen Removal Bioreactors Utilizing Universal Primers: Effect of Annealing Temperature. <i>BioMed Research International</i> , <b>2015</b> , 2015, 892013 | 3    | 12  |
| 606 | Combined biofouling and scaling in membrane feed channels: a new modeling approach. <i>Biofouling</i> , <b>2015</b> , 31, 83-100                                                                                                   | 3.3  | 25  |
| 605 | Methanogenesis at extremely haloalkaline conditions in the soda lakes of Kulunda Steppe (Altai, Russia). <i>FEMS Microbiology Ecology</i> , <b>2015</b> , 91,                                                                      | 4.3  | 45  |
| 604 | Tracking the dynamics of heterotrophs and nitrifiers in moving-bed biofilm reactors operated at different COD/N ratios. <i>Bioresource Technology</i> , <b>2015</b> , 192, 131-41                                                  | 11   | 31  |
| 603 | Faster through training: The anammox case. <i>Water Research</i> , <b>2015</b> , 81, 261-8                                                                                                                                         | 12.5 | 130 |

|     |                                                                                                                                                                                                                                                   |      |     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 602 | Determination of the external mass transfer coefficient and influence of mixing intensity in moving bed biofilm reactors for wastewater treatment. <i>Water Research</i> , <b>2015</b> , 80, 90-8                                                 | 12.5 | 23  |
| 601 | Effect of sludge age on methanogenic and glycogen accumulating organisms in an aerobic granular sludge process fed with methanol and acetate. <i>Microbial Biotechnology</i> , <b>2015</b> , 8, 853-64                                            | 6.3  | 19  |
| 600 | Ecology-based selective environments as solution to contamination in microalgal cultivation. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 33, 46-51                                                                                    | 11.4 | 40  |
| 599 | Removal of fluoxetine and its effects in the performance of an aerobic granular sludge sequential batch reactor. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 287, 93-101                                                                | 12.8 | 44  |
| 598 | Dynamics of bacterial communities before and after distribution in a full-scale drinking water network. <i>Water Research</i> , <b>2015</b> , 74, 180-90                                                                                          | 12.5 | 89  |
| 597 | Microbial community analysis of a full-scale DEMON bioreactor. <i>Bioprocess and Biosystems Engineering</i> , <b>2015</b> , 38, 499-508                                                                                                           | 3.7  | 37  |
| 596 | Occurrence and activity of sulphate reducing bacteria in aerobic activated sludge systems. <i>World Journal of Microbiology and Biotechnology</i> , <b>2015</b> , 31, 507-16                                                                      | 4.4  | 18  |
| 595 | Aerobic Granular Biomass Technology: further innovation, system development and design optimisation. <i>Proceedings of the Water Environment Federation</i> , <b>2015</b> , 2015, 1897-1917                                                       |      | 3   |
| 594 | Methanosalsum natronophilum sp. nov., and Methanocalculus alkaliphilus sp. nov., haloalkaliphilic methanogens from hypersaline soda lakes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2015</b> , 65, 3739-3745 | 2.2  | 39  |
| 593 | How far can genetic signatures be used to anticipate and trigger the behavior of environmental biotechnology systems in the water engineering domain?. <i>Proceedings of the Water Environment Federation</i> , <b>2015</b> , 2015, 6170-6170     |      |     |
| 592 | Stable acetate production in extreme-thermophilic (70°C) mixed culture fermentation by selective enrichment of hydrogenotrophic methanogens. <i>Scientific Reports</i> , <b>2014</b> , 4, 5268                                                    | 4.9  | 34  |
| 591 | Temperature effect on acetate and propionate consumption by sulfate-reducing bacteria in saline wastewater. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 4245-55                                                             | 5.7  | 14  |
| 590 | Physiological and kinetic characterization of a suspended cell anammox culture. <i>Water Research</i> , <b>2014</b> , 60, 1-14                                                                                                                    | 12.5 | 272 |
| 589 | A two-dimensional mechanistic model for scaling in spiral wound membrane systems. <i>Chemical Engineering Journal</i> , <b>2014</b> , 241, 77-91                                                                                                  | 14.7 | 38  |
| 588 | Effect of heterotrophic growth on autotrophic nitrogen removal in a granular sludge reactor. <i>Environmental Technology (United Kingdom)</i> , <b>2014</b> , 35, 1027-37                                                                         | 2.6  | 76  |
| 587 | Performance of aerobic granular sludge in a sequencing batch bioreactor exposed to ofloxacin, norfloxacin and ciprofloxacin. <i>Water Research</i> , <b>2014</b> , 50, 101-13                                                                     | 12.5 | 148 |
| 586 | Simultaneous nitrogen and phosphorus removal in the sulfur cycle-associated Enhanced Biological Phosphorus Removal (EBPR) process. <i>Water Research</i> , <b>2014</b> , 49, 251-64                                                               | 12.5 | 56  |
| 585 | Struvite formation for enhanced dewaterability of digested wastewater sludge. <i>Environmental Technology (United Kingdom)</i> , <b>2014</b> , 35, 549-55                                                                                         | 2.6  | 21  |

|     |                                                                                                                                                                                                                                                                               |      |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 584 | Enrichment of <i>Plasticicumulans acidivorans</i> at pilot-scale for PHA production on industrial wastewater. <i>Journal of Biotechnology</i> , <b>2014</b> , 192 Pt A, 161-9                                                                                                 | 3.7  | 90   |
| 583 | Impact of organic nutrient load on biomass accumulation, feed channel pressure drop increase and permeate flux decline in membrane systems. <i>Water Research</i> , <b>2014</b> , 67, 227-42                                                                                  | 12.5 | 45   |
| 582 | Substrate versatility of polyhydroxyalkanoate producing glycerol grown bacterial enrichment culture. <i>Water Research</i> , <b>2014</b> , 66, 190-198                                                                                                                        | 12.5 | 22   |
| 581 | Anammox growth on pretreated municipal wastewater. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7874-80                                                                                                                                                  | 10.3 | 174  |
| 580 | Aggregation and surface hydrophobicity of selected microorganism due to the effect of substrate, pH and temperature. <i>International Biodeterioration and Biodegradation</i> , <b>2014</b> , 93, 202-209                                                                     | 4.8  | 9    |
| 579 | A review of biological sulfate conversions in wastewater treatment. <i>Water Research</i> , <b>2014</b> , 65, 1-21                                                                                                                                                            | 12.5 | 224  |
| 578 | An exploratory study on seawater-catalysed urine phosphorus recovery (SUPR). <i>Water Research</i> , <b>2014</b> , 66, 75-84                                                                                                                                                  | 12.5 | 36   |
| 577 | Impact of salinity on the anaerobic metabolism of phosphate-accumulating organisms (PAO) and glycogen-accumulating organisms (GAO). <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 7609-22                                                                 | 5.7  | 37   |
| 576 | Absolute quantification of individual biomass concentrations in a methanogenic coculture. <i>AMB Express</i> , <b>2014</b> , 4, 35                                                                                                                                            | 4.1  | 14   |
| 575 | <i>Nitrolancea hollandica</i> gen. nov., sp. nov., a chemolithoautotrophic nitrite-oxidizing bacterium isolated from a bioreactor belonging to the phylum Chloroflexi. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2014</b> , 64, 1859-1865 | 2.2  | 44   |
| 574 | Simultaneous partial nitritation and anammox at low temperature with granular sludge. <i>Water Research</i> , <b>2014</b> , 66, 111-121                                                                                                                                       | 12.5 | 198  |
| 573 | Full-scale partial nitritation/anammox experiences--an application survey. <i>Water Research</i> , <b>2014</b> , 55, 292-303                                                                                                                                                  | 13.3 | 1034 |
| 572 | Modeling PHA-producing microbial enrichment cultures--towards a generalized model with predictive power. <i>New Biotechnology</i> , <b>2014</b> , 31, 324-34                                                                                                                  | 6.4  | 29   |
| 571 | Impact of non-storing biomass on PHA production: an enrichment culture on acetate and methanol. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 71, 74-80                                                                                           | 7.9  | 31   |
| 570 | Combining flow cytometry and 16S rRNA gene pyrosequencing: a promising approach for drinking water monitoring and characterization. <i>Water Research</i> , <b>2014</b> , 63, 179-89                                                                                          | 12.5 | 89   |
| 569 | Water treatment. Anticipating the next century of wastewater treatment. <i>Science</i> , <b>2014</b> , 344, 1452-3                                                                                                                                                            | 33.3 | 393  |
| 568 | Application of the Anammox Process <b>2014</b> , 237-263                                                                                                                                                                                                                      |      | 2    |
| 567 | Full-scale Experiences with Aerobic Granular Biomass Technology for Treatment of Urban and Industrial Wastewater. <i>Proceedings of the Water Environment Federation</i> , <b>2014</b> , 2014, 2347-2357                                                                      |      | 13   |

|     |                                                                                                                                                                                                                                                      |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 566 | Plasticumulans lactivorans sp. nov., a polyhydroxybutyrate-accumulating gammaproteobacterium from a sequencing-batch bioreactor fed with lactate. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2014</b> , 64, 33-38 | 2.2  | 8   |
| 565 | Effect of process design and operating parameters on aerobic methane oxidation in municipal WWTPs. <i>Water Research</i> , <b>2014</b> , 66, 308-319                                                                                                 | 12.5 | 26  |
| 564 | Identification of key factors in Accelerated Low Water Corrosion through experimental simulation of tidal conditions: influence of stimulated indigenous microbiota. <i>Biofouling</i> , <b>2014</b> , 30, 281-97                                    | 3.3  | 30  |
| 563 | Outcompeting nitrite-oxidizing bacteria in single-stage nitrogen removal in sewage treatment plants: a model-based study. <i>Water Research</i> , <b>2014</b> , 66, 208-218                                                                          | 12.5 | 116 |
| 562 | Influence of acetate and propionate on sulphate-reducing bacteria activity. <i>Journal of Applied Microbiology</i> , <b>2014</b> , 117, 1839-47                                                                                                      | 4.7  | 17  |
| 561 | Modeling phototrophic biofilms in a plug-flow reactor. <i>Water Science and Technology</i> , <b>2014</b> , 70, 1261-70                                                                                                                               | 2.2  | 12  |
| 560 | Spacer geometry and particle deposition in spiral wound membrane feed channels. <i>Water Research</i> , <b>2014</b> , 64, 160-176                                                                                                                    | 12.5 | 74  |
| 559 | Evaluation of the endotoxin binding efficiency of clay minerals using the Limulus Amebocyte lysate test: an in vitro study. <i>AMB Express</i> , <b>2014</b> , 4, 1                                                                                  | 4.1  | 55  |
| 558 | Numerical modelling of tooth enamel subsurface lesion formation induced by dental plaque. <i>Caries Research</i> , <b>2014</b> , 48, 73-89                                                                                                           | 4.2  | 9   |
| 557 | Utilization of palm oil mill effluent for polyhydroxyalkanoate production and nutrient removal using statistical design. <i>International Journal of Environmental Science and Technology</i> , <b>2014</b> , 11, 671-684                            | 3.3  | 13  |
| 556 | Evaluating the main and side effects of high salinity on aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 1339-48                                                                                          | 5.7  | 105 |
| 555 | Nitrogen removal with the anaerobic ammonium oxidation process. <i>Biotechnology Letters</i> , <b>2013</b> , 35, 1145-54                                                                                                                             | 5    | 63  |
| 554 | A capillary bioreactor to increase methane transfer and oxidation through Taylor flow formation and transfer vector addition. <i>Chemical Engineering Journal</i> , <b>2013</b> , 217, 91-98                                                         | 14.7 | 18  |
| 553 | Microbial diversity differences within aerobic granular sludge and activated sludge flocs. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 7447-58                                                                                 | 5.7  | 87  |
| 552 | Factors influencing the density of aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 7459-68                                                                                                                | 5.7  | 50  |
| 551 | Impact of dissolved hydrogen partial pressure on mixed culture fermentations. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 2617-25                                                                                              | 5.7  | 38  |
| 550 | Apatite accumulation enhances the mechanical property of anammox granules. <i>Water Research</i> , <b>2013</b> , 47, 4556-66                                                                                                                         | 12.5 | 56  |
| 549 | The biodrying concept: an innovative technology creating energy from sewage sludge. <i>Bioresource Technology</i> , <b>2013</b> , 147, 124-129                                                                                                       | 11   | 89  |

|     |                                                                                                                                                                                                         |      |     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 548 | Biofilm development and the dynamics of preferential flow paths in porous media. <i>Biofouling</i> , <b>2013</b> , 29, 1069-86                                                                          | 3.3  | 47  |
| 547 | Survival of the fittest. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3404                                                                                                                | 35.4 | 45  |
| 546 | Sieving wastewater--cellulose recovery, economic and energy evaluation. <i>Water Research</i> , <b>2013</b> , 47, 43-8                                                                                  | 12.5 | 117 |
| 545 | The chemical and mechanical differences between alginate-like exopolysaccharides isolated from aerobic flocculent sludge and aerobic granular sludge. <i>Water Research</i> , <b>2013</b> , 47, 57-65   | 12.5 | 105 |
| 544 | Fatty acids production from hydrogen and carbon dioxide by mixed culture in the membrane biofilm reactor. <i>Water Research</i> , <b>2013</b> , 47, 6122-9                                              | 12.5 | 130 |
| 543 | Monitoring microbiological changes in drinking water systems using a fast and reproducible flow cytometric method. <i>Water Research</i> , <b>2013</b> , 47, 7131-42                                    | 12.5 | 192 |
| 542 | Characterization of sulfate-reducing granular sludge in the SANI( ) process. <i>Water Research</i> , <b>2013</b> , 47, 7042-52                                                                          | 12.5 | 77  |
| 541 | Potential of mechanical cleaning of membranes from a membrane bioreactor. <i>Journal of Membrane Science</i> , <b>2013</b> , 429, 259-267                                                               | 9.6  | 19  |
| 540 | Influence of sampling strategies on the estimated nitrous oxide emission from wastewater treatment plants. <i>Water Research</i> , <b>2013</b> , 47, 3120-30                                            | 12.5 | 54  |
| 539 | Occurrence of PAOI in a low temperature EBPR system. <i>Chemosphere</i> , <b>2013</b> , 92, 1314-20                                                                                                     | 8.4  | 24  |
| 538 | Mineral CO <sub>2</sub> sequestration by environmental biotechnological processes. <i>Trends in Biotechnology</i> , <b>2013</b> , 31, 139-46                                                            | 15.1 | 39  |
| 537 | Biological active groundwater filters: exploiting natural diversity. <i>Water Science and Technology: Water Supply</i> , <b>2013</b> , 13, 29-35                                                        | 1.4  | 1   |
| 536 | Determining the impacts of fermentative bacteria on wollastonite dissolution kinetics. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 2743-52                                        | 5.7  | 13  |
| 535 | Modelling nitrous and nitric oxide emissions by autotrophic ammonia-oxidizing bacteria. <i>Environmental Technology (United Kingdom)</i> , <b>2013</b> , 34, 1555-66                                    | 2.6  | 54  |
| 534 | Butyrate as preferred substrate for polyhydroxybutyrate production. <i>Bioresource Technology</i> , <b>2013</b> , 142, 232-9                                                                            | 11   | 70  |
| 533 | A new biological phosphorus removal process in association with sulfur cycle. <i>Water Research</i> , <b>2013</b> , 47, 3057-69                                                                         | 12.5 | 35  |
| 532 | Lumped pathway metabolic model of organic carbon accumulation and mobilization by the alga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 3258-67 | 10.3 | 28  |
| 531 | Impact of oxygen limitation on glycerol-based biopolymer production by bacterial enrichments. <i>Water Research</i> , <b>2013</b> , 47, 1209-17                                                         | 12.5 | 40  |

|     |                                                                                                                                                                                                                                                |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 530 | Looking beyond struvite for P-recovery. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 4965-6                                                                                                                               | 10.3 | 159 |
| 529 | Critical review of activated sludge modeling: state of process knowledge, modeling concepts, and limitations. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 24-46                                                               | 4.9  | 75  |
| 528 | Granulation of anaerobic sludge in the sulfate-reducing up-flow sludge bed (SRUSB) of SANI(□) process. <i>Water Science and Technology</i> , <b>2013</b> , 68, 560-6                                                                           | 2.2  | 19  |
| 527 | Methane and nitrous oxide emissions from municipal wastewater treatment - results from a long-term study. <i>Water Science and Technology</i> , <b>2013</b> , 67, 2350-5                                                                       | 2.2  | 132 |
| 526 | Industrial flue gas desulfurization waste may offer an opportunity to facilitate SANI□ application for significant sludge minimization in freshwater wastewater treatment. <i>Water Science and Technology</i> , <b>2013</b> , 67, 2822-6      | 2.2  | 13  |
| 525 | A modified metabolic model for mixed culture fermentation with energy conserving electron bifurcation reaction and metabolite transport energy. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 1884-94                           | 4.9  | 38  |
| 524 | Influence of the cycle length on the production of PHA and polyglucose from glycerol by bacterial enrichments in sequencing batch reactors. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 3148-55                               | 4.9  | 20  |
| 523 | Nitrogen removal by a nitrification-anammox bioreactor at low temperature. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 2807-12                                                                                           | 4.8  | 228 |
| 522 | Integration of Anammox into the aerobic granular sludge process for the conversion of BOD in wastewater treatment at ambient temperatures. <i>Proceedings of the Water Environment Federation</i> , <b>2013</b> , 2013, 786-787                |      |     |
| 521 | High-Frequency Field Measurement of Nitrous oxide (N <sub>2</sub> O) Gas Emissions and Influencing Factors at WWTPs under Dry and Wet Weather Conditions. <i>Proceedings of the Water Environment Federation</i> , <b>2013</b> , 2013, 621-629 |      | 4   |
| 520 | Phospaq: Full scale experience with phosphorus recovery via controlled struvite precipitation. <i>Proceedings of the Water Environment Federation</i> , <b>2013</b> , 2013, 311-317                                                            |      | 4   |
| 519 | Coupling ASM3 and ADM1 for wastewater treatment process optimisation and biogas production in a developing country: case-study Surat, India. <i>Journal of Water Sanitation and Hygiene for Development</i> , <b>2013</b> , 3, 12-25           | 1.5  | 5   |
| 518 | Impact of feed spacer and membrane modification by hydrophilic, bactericidal and biocidal coating on biofouling control. <i>Desalination</i> , <b>2012</b> , 295, 1-10                                                                         | 10.3 | 76  |
| 517 | Nitrate reduction by organotrophic Anammox bacteria in a nitrification/anammox granular sludge and a moving bed biofilm reactor. <i>Bioresource Technology</i> , <b>2012</b> , 114, 217-23                                                     | 11   | 82  |
| 516 | Quantitative measurement and visualization of biofilm O <sub>2</sub> consumption rates in membrane filtration systems. <i>Journal of Membrane Science</i> , <b>2012</b> , 392-393, 66-75                                                       | 9.6  | 21  |
| 515 | The potential of standard and modified feed spacers for biofouling control. <i>Journal of Membrane Science</i> , <b>2012</b> , 403-404, 58-70                                                                                                  | 9.6  | 69  |
| 514 | Gallionella spp. in trickling filtration of subsurface aerated and natural groundwater. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 904-12                                                                                    | 4.9  | 9   |
| 513 | The effect of biofilm permeability on bio-clogging of porous media. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1031-42                                                                                                       | 4.9  | 82  |



|     |                                                                                                                                                                                                                                |      |     |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 512 | Analysis of ammonia-oxidizing bacteria dominating in lab-scale bioreactors with high ammonium bicarbonate loading. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 401-10                                    | 5.7  | 20  |
| 511 | Effect of different salt adaptation strategies on the microbial diversity, activity, and settling of nitrifying sludge in sequencing batch reactors. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1281-94 | 5.7  | 118 |
| 510 | Inhibition effect of swine wastewater heavy metals and antibiotics on anammox activity. <i>Water Science and Technology</i> , <b>2012</b> , 66, 1519-26                                                                        | 2.2  | 93  |
| 509 | Structured morphological modeling as a framework for rational strain design of <i>Streptomyces</i> species. <i>Antonie Van Leeuwenhoek</i> , <b>2012</b> , 102, 409-23                                                         | 2.1  | 31  |
| 508 | Measuring biomass specific ammonium, nitrite and phosphate uptake rates in aerobic granular sludge. <i>Chemosphere</i> , <b>2012</b> , 89, 1161-8                                                                              | 8.4  | 35  |
| 507 | Aerobic sludge granulation: a tale of two polysaccharides?. <i>Water Research</i> , <b>2012</b> , 46, 4803-13                                                                                                                  | 12.5 | 133 |
| 506 | Evaluating the solid retention time of bacteria in flocculent and granular sludge. <i>Water Research</i> , <b>2012</b> , 46, 4973-80                                                                                           | 12.5 | 59  |
| 505 | Temperature and salt effects on settling velocity in granular sludge technology. <i>Water Research</i> , <b>2012</b> , 46, 5445-51                                                                                             | 12.5 | 62  |
| 504 | Waste to resource: Converting paper mill wastewater to bioplastic. <i>Water Research</i> , <b>2012</b> , 46, 5517-5530                                                                                                         | 12.5 | 153 |
| 503 | REMOVED: Modeling Biofouling, Scaling and Combined Fouling in Reverse Osmosis Membrane Devices. <i>Procedia Engineering</i> , <b>2012</b> , 44, 341-342                                                                        |      | 4   |
| 502 | Integration of anammox into the aerobic granular sludge process for main stream wastewater treatment at ambient temperatures. <i>Water Research</i> , <b>2012</b> , 46, 136-44                                                 | 12.5 | 157 |
| 501 | SANI <sup>2</sup> process realizes sustainable saline sewage treatment: steady state model-based evaluation of the pilot-scale trial of the process. <i>Water Research</i> , <b>2012</b> , 46, 475-90                          | 12.5 | 57  |
| 500 | The contribution of exopolysaccharides induced struvites accumulation to ammonium adsorption in aerobic granular sludge. <i>Water Research</i> , <b>2012</b> , 46, 986-92                                                      | 12.5 | 50  |
| 499 | Phosphorus limitation in nitrifying groundwater filters. <i>Water Research</i> , <b>2012</b> , 46, 1061-9                                                                                                                      | 12.5 | 40  |
| 498 | The effect of nitrite inhibition on the anammox process. <i>Water Research</i> , <b>2012</b> , 46, 2559-69                                                                                                                     | 12.5 | 232 |
| 497 | Short-term adhesion and long-term biofouling testing of polydopamine and poly(ethylene glycol) surface modifications of membranes and feed spacers for biofouling control. <i>Water Research</i> , <b>2012</b> , 46, 3737-53   | 12.5 | 178 |
| 496 | Simultaneous nitrogen and phosphate removal in aerobic granular sludge reactors operated at different temperatures. <i>Water Research</i> , <b>2012</b> , 46, 3805-16                                                          | 12.5 | 214 |
| 495 | Methane emission during municipal wastewater treatment. <i>Water Research</i> , <b>2012</b> , 46, 3657-70                                                                                                                      | 12.5 | 204 |

|     |                                                                                                                                                                                                                                                                                           |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 494 | Temperature and salt effects on settling velocity in granular sludge technology. <i>Water Research</i> , <b>2012</b> , 46, 3897-902                                                                                                                                                       | 12.5 | 29  |
| 493 | Mathematical modelling of tooth demineralisation and pH profiles in dental plaque. <i>Journal of Theoretical Biology</i> , <b>2012</b> , 309, 159-75                                                                                                                                      | 2.3  | 31  |
| 492 | Development of Bio-PORec <sup>®</sup> system for polyhydroxyalkanoates (PHA) production and its storage in mixed cultures of palm oil mill effluent (POME). <i>Bioresource Technology</i> , <b>2012</b> , 124, 208-16                                                                     | 11   | 40  |
| 491 | Effect of different operational conditions on biofilm development, nitrification, and nitrifying microbial population in moving-bed biofilm reactors. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 1546-55                                                           | 10.3 | 139 |
| 490 | Metabolic modeling of denitrification in <i>Agrobacterium tumefaciens</i> : a tool to study inhibiting and activating compounds for the denitrification pathway. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 370                                                                  | 5.7  | 14  |
| 489 | Polyhydroalkanoates (PHAs) Production from Saponified Sunflower Oil in Mixed Cultures under Aerobic Condition. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2012</b> ,                                                                                                         | 1.2  | 4   |
| 488 | Evaluation and optimization of nucleic acid extraction methods for the molecular analysis of bacterial communities associated with corroded carbon steel. <i>Biofouling</i> , <b>2012</b> , 28, 363-80                                                                                    | 3.3  | 11  |
| 487 | Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. <i>ISME Journal</i> , <b>2012</b> , 6, 2245-56                                                                                                                   | 11.9 | 216 |
| 486 | The granule size distribution in an anammox-based granular sludge reactor affects the conversion--implications for modeling. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1629-36                                                                                         | 4.9  | 76  |
| 485 | Improved phosphate removal by selective sludge discharge in aerobic granular sludge reactors. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1919-28                                                                                                                        | 4.9  | 56  |
| 484 | The demonstration of a novel sulfur cycle-based wastewater treatment process: sulfate reduction, autotrophic denitrification, and nitrification integrated (SANI <sup>®</sup> ) biological nitrogen removal process. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 2778-89 | 4.9  | 38  |
| 483 | Unravelling the reasons for disproportion in the ratio of AOB and NOB in aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 94, 1657-66                                                                                                               | 5.7  | 109 |
| 482 | Effect of flow velocity, substrate concentration and hydraulic cleaning on biofouling of reverse osmosis feed channels. <i>Chemical Engineering Journal</i> , <b>2012</b> , 188, 30-39                                                                                                    | 14.7 | 69  |
| 481 | New approaches to characterizing and understanding biofouling of spiral wound membrane systems. <i>Water Science and Technology</i> , <b>2012</b> , 66, 88-94                                                                                                                             | 2.2  | 20  |
| 480 | Phosphorus release and uptake during start-up of a covered and non-aerated sequencing batch reactor with separate feeding of VFA and sulfate. <i>Water Science and Technology</i> , <b>2012</b> , 65, 840-4                                                                               | 2.2  | 4   |
| 479 | N <sub>2</sub> O and NO emissions during autotrophic nitrogen removal in a granular sludge reactor--a simulation study. <i>Environmental Technology (United Kingdom)</i> , <b>2012</b> , 33, 2281-90                                                                                      | 2.6  | 22  |
| 478 | Strength characteristics of aerobic granular sludge. <i>Water Science and Technology</i> , <b>2012</b> , 65, 309-16                                                                                                                                                                       | 2.2  | 29  |
| 477 | Integration of seawater and grey water reuse to maximize alternative water resource for coastal areas: the case of the Hong Kong International Airport. <i>Water Science and Technology</i> , <b>2012</b> , 65, 410-7                                                                     | 2.2  | 62  |

|     |                                                                                                                                                                                                                                                              |      |     |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 476 | A Lumped Pathway Metabolic Model of Carbohydrate- and Lipid-Accumulating Phototrophs. <i>Proceedings of the Water Environment Federation</i> , <b>2012</b> , 2012, 3600-3615                                                                                 |      |     |
| 475 | The effect of inorganic carbon limitation on nitrite oxidizing bacteria. <i>Proceedings of the Water Environment Federation</i> , <b>2012</b> , 2012, 1968-1974                                                                                              |      | 1   |
| 474 | Biofouling in membrane devices treating water with different salinities: a modeling study. <i>Desalination and Water Treatment</i> , <b>2011</b> , 34, 284-289                                                                                               |      | 4   |
| 473 | Nitrous oxide production by lithotrophic ammonia-oxidizing bacteria and implications for engineered nitrogen-removal systems. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1832-7                                                             | 5.1  | 137 |
| 472 | <i>Plasticicumulans acidivorans</i> gen. nov., sp. nov., a polyhydroxyalkanoate-accumulating gammaproteobacterium from a sequencing-batch bioreactor. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2011</b> , 61, 2314-2319 | 2.2  | 30  |
| 471 | Segregation of biomass in cyclic anaerobic/aerobic granular sludge allows the enrichment of anaerobic ammonium oxidizing bacteria at low temperatures. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7330-7                              | 10.3 | 125 |
| 470 | Effect of polymeric substrate on sludge settleability. <i>Water Research</i> , <b>2011</b> , 45, 263-73                                                                                                                                                      | 12.5 | 58  |
| 469 | Effect of conventional chemical treatment on the microbial population in a biofouling layer of reverse osmosis systems. <i>Water Research</i> , <b>2011</b> , 45, 405-16                                                                                     | 12.5 | 76  |
| 468 | Autotrophic nitrogen removal from black water: calcium addition as a requirement for settleability. <i>Water Research</i> , <b>2011</b> , 45, 63-74                                                                                                          | 12.5 | 68  |
| 467 | Global sensitivity analysis in wastewater treatment plant model applications: prioritizing sources of uncertainty. <i>Water Research</i> , <b>2011</b> , 45, 639-51                                                                                          | 12.5 | 111 |
| 466 | Metabolic modeling of mixed substrate uptake for polyhydroxyalkanoate (PHA) production. <i>Water Research</i> , <b>2011</b> , 45, 1309-21                                                                                                                    | 12.5 | 84  |
| 465 | Selective sludge removal in a segregated aerobic granular biomass system as a strategy to control PAO-GAO competition at high temperatures. <i>Water Research</i> , <b>2011</b> , 45, 3291-9                                                                 | 12.5 | 115 |
| 464 | A novel scenario for biofouling control of spiral wound membrane systems. <i>Water Research</i> , <b>2011</b> , 45, 3890-8                                                                                                                                   | 12.5 | 52  |
| 463 | Assessment of nitrification in groundwater filters for drinking water production by qPCR and activity measurement. <i>Water Research</i> , <b>2011</b> , 45, 4008-18                                                                                         | 12.5 | 35  |
| 462 | The effect of hydraulic retention time on granular sludge biomass in treating textile wastewater. <i>Water Research</i> , <b>2011</b> , 45, 4711-21                                                                                                          | 12.5 | 72  |
| 461 | Effect of temperature shocks on membrane fouling in membrane bioreactors. <i>Water Research</i> , <b>2011</b> , 45, 4491-500                                                                                                                                 | 12.5 | 75  |
| 460 | Limited filamentous bulking in order to enhance integrated nutrient removal and effluent quality. <i>Water Research</i> , <b>2011</b> , 45, 4877-84                                                                                                          | 12.5 | 22  |
| 459 | Evaluating sludge minimization caused by predation and viral infection based on the extended activated sludge model No. 2d. <i>Water Research</i> , <b>2011</b> , 45, 5130-40                                                                                | 12.5 | 27  |

|     |                                                                                                                                                                                                                         |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 458 | Biological iron oxidation by <i>Gallionella</i> spp. in drinking water production under fully aerated conditions. <i>Water Research</i> , <b>2011</b> , 45, 5389-98                                                     | 12.5 | 50  |
| 457 | Ammonium adsorption in aerobic granular sludge, activated sludge and anammox granules. <i>Water Research</i> , <b>2011</b> , 45, 5257-65                                                                                | 12.5 | 83  |
| 456 | A full scale worm reactor for efficient sludge reduction by predation in a wastewater treatment plant. <i>Water Research</i> , <b>2011</b> , 45, 5916-24                                                                | 12.5 | 51  |
| 455 | Reduced iron induced nitric oxide and nitrous oxide emission. <i>Water Research</i> , <b>2011</b> , 45, 5945-52                                                                                                         | 12.5 | 107 |
| 454 | 2-fluorophenol degradation by aerobic granular sludge in a sequencing batch reactor. <i>Water Research</i> , <b>2011</b> , 45, 6745-52                                                                                  | 12.5 | 60  |
| 453 | Stepwise Calibration of the Activated Sludge Model No. 1 at a Partially Denitrifying Large Wastewater Treatment Plant. <i>Water Environment Research</i> , <b>2011</b> , 83, 2036-2048                                  | 2.8  | 5   |
| 452 | Understanding energy saving and CO <sub>2</sub> reduction in wastewater treatment plants. <i>International Journal of Environment and Pollution</i> , <b>2011</b> , 45, 237                                             | 0.7  | 1   |
| 451 | Divergence between respirometry and physicochemical methods in the fractionation of the chemical oxygen demand in municipal wastewater. <i>Water Environment Research</i> , <b>2011</b> , 83, 162-72                    | 2.8  | 13  |
| 450 | Effect of temperature and cycle length on microbial competition in PHB-producing sequencing batch reactor. <i>ISME Journal</i> , <b>2011</b> , 5, 896-907                                                               | 11.9 | 60  |
| 449 | Microbial community of sulfate-reducing up-flow sludge bed in the SANI process for saline sewage treatment. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 90, 2015-25                                   | 5.7  | 37  |
| 448 | Microbial community engineering for biopolymer production from glycerol. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 92, 631-9                                                                        | 5.7  | 61  |
| 447 | Review of mass transfer aspects for biological gas treatment. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 873-86                                                                                  | 5.7  | 137 |
| 446 | Polyhydroxybutyrate production from lactate using a mixed microbial culture. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 2022-35                                                                       | 4.9  | 112 |
| 445 | Effect of elevated salt concentrations on the aerobic granular sludge process: linking microbial activity with microbial community structure. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 7942-53 | 4.8  | 119 |
| 444 | Early warning of biofouling in spiral wound nanofiltration and reverse osmosis membranes. <i>Desalination</i> , <b>2011</b> , 265, 206-212                                                                              | 10.3 | 50  |
| 443 | Water and energy as inseparable twins for sustainable solutions. <i>Water Science and Technology</i> , <b>2011</b> , 63, 88-92                                                                                          | 2.2  | 32  |
| 442 | Pilot scale evaluation of SANI process for sludge minimization and greenhouse gas reduction in saline sewage treatment. <i>Water Science and Technology</i> , <b>2011</b> , 63, 2149-54                                 | 2.2  | 28  |
| 441 | Urine nitrification and sewer discharge to realize in-sewer denitrification to simplify sewage treatment in Hong Kong. <i>Water Science and Technology</i> , <b>2011</b> , 64, 618-26                                   | 2.2  | 25  |

|     |                                                                                                                                                                                                                                             |      |     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 440 | Removal of selected endocrine disrupting chemicals and personal care products in surface waters and secondary wastewater by ozonation. <i>Water Environment Research</i> , <b>2011</b> , 83, 684-91                                         | 2.8  | 7   |
| 439 | Quantification of greenhouse gas emissions from municipal wastewater treatment plants: a case study. <i>Communications in Agricultural and Applied Biological Sciences</i> , <b>2011</b> , 76, 155-8                                        |      |     |
| 438 | Stepwise calibration of the activated sludge model no. 1 at a partially denitrifying large wastewater treatment plant. <i>Water Environment Research</i> , <b>2011</b> , 83, 2036-48                                                        | 2.8  |     |
| 437 | Microbial diversity of an oil-water processing site and its associated oil field: the possible role of microorganisms as information carriers from oil-associated environments. <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 71, 428-43 | 4.3  | 50  |
| 436 | Microbial community structure in autotrophic nitrifying granules characterized by experimental and simulation analyses. <i>Environmental Microbiology</i> , <b>2010</b> , 12, 192-206                                                       | 5.2  | 90  |
| 435 | Reduced inorganic sulfur oxidation supports autotrophic and mixotrophic growth of <i>Magnetospirillum</i> strain J10 and <i>Magnetospirillum gryphiswaldense</i> . <i>Environmental Microbiology</i> , <b>2010</b> , 12, 1031-40            | 5.2  | 30  |
| 434 | Effect of nitric oxide on anammox bacteria. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 6304-6                                                                                                                        | 4.8  | 69  |
| 433 | Integrated approach for biofouling control. <i>Water Science and Technology</i> , <b>2010</b> , 62, 2477-90                                                                                                                                 | 2.2  | 36  |
| 432 | Fecal coliform removal in a sulfate reduction, autotrophic denitrification and nitrification integrated (SANI) process for saline sewage treatment. <i>Water Science and Technology</i> , <b>2010</b> , 62, 2564-70 <sup>2.2</sup>          |      | 10  |
| 431 | Microbiological Endogenous Processes in Biological Wastewater Treatment Systems. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2010</b> , 40, 239-265                                                                | 11.1 | 57  |
| 430 | Quantifying Biomediated Ground Improvement by Ureolysis: Large-Scale Biogrout Experiment. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2010</b> , 136, 1721-1728                                             | 3.4  | 471 |
| 429 | New framework for standardized notation in wastewater treatment modelling. <i>Water Science and Technology</i> , <b>2010</b> , 61, 841-57                                                                                                   | 2.2  | 61  |
| 428 | Cell flexibility affects the alignment of model myxobacteria. <i>Biophysical Journal</i> , <b>2010</b> , 99, 3129-38                                                                                                                        | 2.9  | 18  |
| 427 | Mechanisms and specific directionality of autotrophic nitrous oxide and nitric oxide generation during transient anoxia. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1313-9                                           | 10.3 | 235 |
| 426 | Effect of granule size on autotrophic nitrogen removal in a granular sludge reactor. <i>Environmental Technology (United Kingdom)</i> , <b>2010</b> , 31, 1271-80                                                                           | 2.6  | 87  |
| 425 | Biofilm formation on reverse osmosis membranes is initiated and dominated by <i>Sphingomonas</i> spp. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 2623-32                                                             | 4.8  | 125 |
| 424 | Impact of flow regime on pressure drop increase and biomass accumulation and morphology in membrane systems. <i>Water Research</i> , <b>2010</b> , 44, 689-702                                                                              | 12.5 | 72  |
| 423 | Short- and long-term temperature effects on aerobic polyhydroxybutyrate producing mixed cultures. <i>Water Research</i> , <b>2010</b> , 44, 1689-700                                                                                        | 12.5 | 36  |

|                 |                                                                                                                                                                                                                                       |      |     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 4 <sup>22</sup> | Influence of the C/N ratio on the performance of polyhydroxybutyrate (PHB) producing sequencing batch reactors at short SRTs. <i>Water Research</i> , <b>2010</b> , 44, 2141-52                                                       | 12.5 | 125 |
| 4 <sup>21</sup> | Long term partial nitrification of anaerobically treated black water and the emission of nitrous oxide. <i>Water Research</i> , <b>2010</b> , 44, 2171-8                                                                              | 12.5 | 53  |
| 4 <sup>20</sup> | Characterization of alginate-like exopolysaccharides isolated from aerobic granular sludge in pilot-plant. <i>Water Research</i> , <b>2010</b> , 44, 3355-64                                                                          | 12.5 | 190 |
| 4 <sup>19</sup> | The effect of primary sedimentation on full-scale WWTP nutrient removal performance. <i>Water Research</i> , <b>2010</b> , 44, 3375-84                                                                                                | 12.5 | 26  |
| 4 <sup>18</sup> | Phosphate limitation to control biofouling. <i>Water Research</i> , <b>2010</b> , 44, 3454-66                                                                                                                                         | 12.5 | 100 |
| 4 <sup>17</sup> | Measuring the activities of higher organisms in activated sludge by means of mechanical shearing pretreatment and oxygen uptake rate. <i>Water Research</i> , <b>2010</b> , 44, 3993-4001                                             | 12.5 | 16  |
| 4 <sup>16</sup> | Development of granular sludge for textile wastewater treatment. <i>Water Research</i> , <b>2010</b> , 44, 4341-50                                                                                                                    | 12.5 | 98  |
| 4 <sup>15</sup> | Modelling the population dynamics and metabolic diversity of organisms relevant in anaerobic/anoxic/aerobic enhanced biological phosphorus removal processes. <i>Water Research</i> , <b>2010</b> , 44, 4473-86                       | 12.5 | 68  |
| 4 <sup>14</sup> | Incorporating microbial ecology into the metabolic modelling of polyphosphate accumulating organisms and glycogen accumulating organisms. <i>Water Research</i> , <b>2010</b> , 44, 4992-5004                                         | 12.5 | 96  |
| 4 <sup>13</sup> | Behavior of polymeric substrates in an aerobic granular sludge system. <i>Water Research</i> , <b>2010</b> , 44, 5929-38                                                                                                              | 12.5 | 119 |
| 4 <sup>12</sup> | Upgrading of sewage treatment plant by sustainable and cost-effective separate treatment of industrial wastewater. <i>Water Science and Technology</i> , <b>2010</b> , 61, 1715-22                                                    | 2.2  | 179 |
| 4 <sup>11</sup> | Engineering. Sewage treatment with anammox. <i>Science</i> , <b>2010</b> , 328, 702-3                                                                                                                                                 | 33.3 | 787 |
| 4 <sup>10</sup> | A Generalized Method for Thermodynamic State Analysis of Environmental Systems. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2010</b> , 40, 1-54                                                              | 11.1 | 123 |
| 4 <sup>09</sup> | Overview of Applied Research with Nereda <sup>®</sup> -Technology in the Netherlands. <i>Proceedings of the Water Environment Federation</i> , <b>2010</b> , 2010, 103-113                                                            |      | 2   |
| 4 <sup>08</sup> | New Framework for Standardized Notation in Wastewater Treatment Modelling. <i>Proceedings of the Water Environment Federation</i> , <b>2010</b> , 2010, 1099-1100                                                                     |      | 0   |
| 4 <sup>07</sup> | Experimental evaluation of decrease in the activities of polyphosphate/glycogen-accumulating organisms due to cell death and activity decay in activated sludge. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 106, 399-407 | 4.9  | 24  |
| 4 <sup>06</sup> | An intracellular pH gradient in the anammox bacterium <i>Kuenenia stuttgartiensis</i> as evaluated by 31P NMR. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 86, 311-7                                                | 5.7  | 48  |
| 4 <sup>05</sup> | Formation of pure struvite at neutral pH by electrochemical deposition. <i>Chemical Engineering Journal</i> , <b>2010</b> , 159, 280-283                                                                                              | 14.7 | 80  |

|     |                                                                                                                                                                                            |     |     |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 404 | Microbial phytase-induced calcium-phosphate precipitation--a potential soil stabilization method. <i>Folia Microbiologica</i> , <b>2010</b> , 55, 621-4                                    | 2.8 | 16  |
| 403 | Modelling microbial fuel cells with suspended cells and added electron transfer mediator. <i>Journal of Applied Electrochemistry</i> , <b>2010</b> , 40, 151-162                           | 2.6 | 56  |
| 402 | Magnetic resonance imaging and 3D simulation studies of biofilm accumulation and cleaning on reverse osmosis membranes. <i>Food and Bioproducts Processing</i> , <b>2010</b> , 88, 401-408 | 4.9 | 38  |
| 401 | Development of a bionanotechnological phosphate removal system with thermostable ferritin. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 105, 918-23                             | 4.9 | 14  |
| 400 | Influence of ammonium on the accumulation of polyhydroxybutyrate (PHB) in aerobic open mixed cultures. <i>Journal of Biotechnology</i> , <b>2010</b> , 147, 73-9                           | 3.7 | 68  |
| 399 | Biofouling in spiral wound membrane systems: Three-dimensional CFD model based evaluation of experimental data. <i>Journal of Membrane Science</i> , <b>2010</b> , 346, 71-85              | 9.6 | 88  |
| 398 | Chemical cleaning of biofouling in reverse osmosis membranes evaluated using magnetic resonance imaging. <i>Journal of Membrane Science</i> , <b>2010</b> , 362, 202-210                   | 9.6 | 97  |
| 397 | Modeling the effect of biofilm formation on reverse osmosis performance: Flux, feed channel pressure drop and solute passage. <i>Journal of Membrane Science</i> , <b>2010</b> , 365, 1-15 | 9.6 | 89  |
| 396 | Survival and death of the haloarchaeon <i>Natronorubrum</i> strain HG-1 in a simulated martian environment. <i>Advances in Space Research</i> , <b>2010</b> , 46, 1149-1155                | 2.4 | 16  |
| 395 | Model based evaluation of the effect of pH and electrode geometry on microbial fuel cell performance. <i>Bioelectrochemistry</i> , <b>2010</b> , 78, 8-24                                  | 5.6 | 148 |
| 394 | Fixation and distribution of bacterial activity in sand to induce carbonate precipitation for ground reinforcement. <i>Ecological Engineering</i> , <b>2010</b> , 36, 112-117              | 3.9 | 381 |
| 393 | Potential soil reinforcement by biological denitrification. <i>Ecological Engineering</i> , <b>2010</b> , 36, 168-175                                                                      | 3.9 | 263 |
| 392 | Water quality and treatment of river bank filtrate. <i>Drinking Water Engineering and Science</i> , <b>2010</b> , 3, 79-90                                                                 |     | 24  |
| 391 | Habitability on planetary surfaces: interdisciplinary preparation phase for future Mars missions. <i>International Journal of Astrobiology</i> , <b>2009</b> , 8, 301-315                  | 1.4 | 20  |
| 390 | Modelling using rRNA-structured biomass models. <i>Water Science and Technology</i> , <b>2009</b> , 59, 661-71                                                                             | 2.2 | 3   |
| 389 | Emission of nitrous oxide and nitric oxide from a full-scale single-stage nitrification-anammox reactor. <i>Water Science and Technology</i> , <b>2009</b> , 60, 3211-7                    | 2.2 | 116 |
| 388 | Extended mixed-culture biofilms (MCB) model to describe integrated fixed film/activated sludge (IFAS) process behaviour. <i>Water Science and Technology</i> , <b>2009</b> , 60, 3233-41   | 2.2 | 8   |
| 387 | A novel sludge minimized biological nitrogen removal process for saline sewage treatment. <i>Water Science and Technology</i> , <b>2009</b> , 59, 1893-9                                   | 2.2 | 9   |

|     |                                                                                                                                                                                                                |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 386 | Influence of iron on nitrification in full-scale drinking water trickling filters <b>2009</b> , 58, 247-256                                                                                                    |      | 17  |
| 385 | Struvite formation, analytical methods and effects of pH and Ca <sup>2+</sup> . <i>Water Science and Technology</i> , <b>2009</b> , 59, 1077                                                                   | 2.2  | 11  |
| 384 | Model-based data evaluation of polyhydroxybutyrate producing mixed microbial cultures in aerobic sequencing batch and fed-batch reactors. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 104, 50-67   | 4.9  | 44  |
| 383 | Xylose anaerobic conversion by open-mixed cultures. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 82, 231-9                                                                                    | 5.7  | 57  |
| 382 | Microbial sulfide oxidation in the oxic-anoxic transition zone of freshwater sediment: involvement of lithoautotrophic Magnetospirillum strain J10. <i>FEMS Microbiology Ecology</i> , <b>2009</b> , 70, 54-65 | 4.3  | 22  |
| 381 | Three-dimensional modeling of biofouling and fluid dynamics in feed spacer channels of membrane devices. <i>Journal of Membrane Science</i> , <b>2009</b> , 345, 340-354                                       | 9.6  | 116 |
| 380 | Sensitive pressure drop measurements of individual lead membrane elements for accurate early biofouling detection. <i>Journal of Membrane Science</i> , <b>2009</b> , 338, 92-99                               | 9.6  | 54  |
| 379 | Effect of free calcium concentration and ionic strength on alginate fouling in cross-flow membrane filtration. <i>Journal of Membrane Science</i> , <b>2009</b> , 345, 207-216                                 | 9.6  | 105 |
| 378 | Molecular characterization of microbial populations in groundwater sources and sand filters for drinking water production. <i>Water Research</i> , <b>2009</b> , 43, 182-94                                    | 12.5 | 70  |
| 377 | Modeling the PAO-GAO competition: effects of carbon source, pH and temperature. <i>Water Research</i> , <b>2009</b> , 43, 450-62                                                                               | 12.5 | 230 |
| 376 | Biofouling of spiral-wound nanofiltration and reverse osmosis membranes: a feed spacer problem. <i>Water Research</i> , <b>2009</b> , 43, 583-94                                                               | 12.5 | 248 |
| 375 | Characterization of geochemical constituents and bacterial populations associated with As mobilization in deep and shallow tube wells in Bangladesh. <i>Water Research</i> , <b>2009</b> , 43, 1720-30         | 12.5 | 69  |
| 374 | A novel sulfate reduction, autotrophic denitrification, nitrification integrated (SANI) process for saline wastewater treatment. <i>Water Research</i> , <b>2009</b> , 43, 2363-72                             | 12.5 | 154 |
| 373 | Nitrous oxide emission during wastewater treatment. <i>Water Research</i> , <b>2009</b> , 43, 4093-103                                                                                                         | 12.5 | 861 |
| 372 | Temperature effects on glycogen accumulating organisms. <i>Water Research</i> , <b>2009</b> , 43, 2852-64                                                                                                      | 12.5 | 74  |
| 371 | Response to the comment on Modelling the PAO-GAO competition: Effects of carbon source, pH and temperature by Dwight Houweling et al.. <i>Water Research</i> , <b>2009</b> , 43, 2950-2951                     | 12.5 | 2   |
| 370 | Uncertainty analysis in WWTP model applications: a critical discussion using an example from design. <i>Water Research</i> , <b>2009</b> , 43, 2894-906                                                        | 12.5 | 118 |
| 369 | A biofilm model for prediction of pollutant transformation in sewers. <i>Water Research</i> , <b>2009</b> , 43, 3187-98                                                                                        | 12.5 | 51  |



|     |                                                                                                                                                                                                                                                                                  |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 368 | Steady-state model-based evaluation of sulfate reduction, autotrophic denitrification and nitrification integrated (SANI) process. <i>Water Research</i> , <b>2009</b> , 43, 3613-21                                                                                             | 12.5 | 36  |
| 367 | Experimental evaluation of decrease in bacterial activity due to cell death and activity decay in activated sludge. <i>Water Research</i> , <b>2009</b> , 43, 3604-12                                                                                                            | 12.5 | 90  |
| 366 | A new planning and design paradigm to achieve sustainable resource recovery from wastewater. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6126-30                                                                                                           | 10.3 | 335 |
| 365 | Enrichment of a mixed bacterial culture with a high polyhydroxyalkanoate storage capacity. <i>Biomacromolecules</i> , <b>2009</b> , 10, 670-6                                                                                                                                    | 6.9  | 287 |
| 364 | Pressure drop increase by biofilm accumulation in spiral wound RO and NF membrane systems: role of substrate concentration, flow velocity, substrate load and flow direction. <i>Biofouling</i> , <b>2009</b> , 25, 543-553                                                      | 3.3  | 127 |
| 363 | A critical flux to avoid biofouling of spiral wound nanofiltration and reverse osmosis membranes: Fact or fiction?. <i>Journal of Membrane Science</i> , <b>2009</b> , 326, 36-44                                                                                                | 9.6  | 73  |
| 362 | Nitrification of urine for H <sub>2</sub> S control in pressure sewers. <i>Water Practice and Technology</i> , <b>2009</b> , 4,                                                                                                                                                  | 0.9  | 9   |
| 361 | Use of Waste Streams and Microbes for in situ Transformation of Sand Into Sandstone <b>2009</b> ,                                                                                                                                                                                |      | 6   |
| 360 | Ethics in Innovation: Cooperation and Tension. <i>Philosophy of Engineering and Technology</i> , <b>2009</b> , 215-226                                                                                                                                                           | 0.1  | 1   |
| 359 | Formation and Detachment of Biofilms and Granules in a Nitrifying Biofilm Airlift Suspension Reactor. <i>Biotechnology Progress</i> , <b>2008</b> , 12, 764-772                                                                                                                  | 2.8  | 35  |
| 358 | Physiological and phylogenetic study of an ammonium-oxidizing culture at high nitrite concentrations. <i>Systematic and Applied Microbiology</i> , <b>2008</b> , 31, 114-25                                                                                                      | 4.2  | 40  |
| 357 | Selection between alcohols and volatile fatty acids as external carbon sources for EBPR. <i>Water Research</i> , <b>2008</b> , 42, 557-66                                                                                                                                        | 12.5 | 64  |
| 356 | Dynamics of nitric oxide and nitrous oxide emission during full-scale reject water treatment. <i>Water Research</i> , <b>2008</b> , 42, 812-26                                                                                                                                   | 12.5 | 345 |
| 355 | Factors affecting the microbial populations at full-scale enhanced biological phosphorus removal (EBPR) wastewater treatment plants in The Netherlands. <i>Water Research</i> , <b>2008</b> , 42, 2349-60                                                                        | 12.5 | 136 |
| 354 | Comment on "Could polyphosphate-accumulating organisms (PAOs) be glycogen-accumulating organisms (GAOs)?" by Zhou, Y., Pijuan, M., Zeng, R., Lu, Huabing and Yuan Z. <i>Water Res.</i> (2008) doi:10.1016/j.watres.2008.01.003. <i>Water Research</i> , <b>2008</b> , 42, 3561-2 | 12.5 | 4   |
| 353 | Data evaluation of full-scale wastewater treatment plants by mass balance. <i>Water Research</i> , <b>2008</b> , 42, 4645-55                                                                                                                                                     | 12.5 | 48  |
| 352 | Quantitative biofouling diagnosis in full scale nanofiltration and reverse osmosis installations. <i>Water Research</i> , <b>2008</b> , 42, 4856-68                                                                                                                              | 12.5 | 178 |
| 351 | Struvite formation, analytical methods and effects of pH and Ca <sup>2+</sup> . <i>Water Science and Technology</i> , <b>2008</b> , 58, 1687-92                                                                                                                                  | 2.2  | 129 |

|     |                                                                                                                                                                                                                            |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 350 | Effect of dynamic process conditions on nitrogen oxides emission from a nitrifying culture. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 429-35                                                       | 10.3 | 216 |
| 349 | Nitrous and Nitric Oxides and the Effect of Oxygen Level and Nitrite Concentration on its Emission from Nitritation and Nitrification-Denitrification Reactors <b>2008</b> ,                                               |      | 1   |
| 348 | Modeling mixed culture fermentations; the role of different electron carriers. <i>Water Science and Technology</i> , <b>2008</b> , 57, 493-7                                                                               | 2.2  | 12  |
| 347 | Simultaneous storage and utilization of polyhydroxyalkanoates and glycogen under aerobic conditions. <i>Water Science and Technology</i> , <b>2008</b> , 58, 945-51                                                        | 2.2  | 9   |
| 346 | Mathematical model for microbial fuel cells with anodic biofilms and anaerobic digestion. <i>Water Science and Technology</i> , <b>2008</b> , 57, 965-71                                                                   | 2.2  | 118 |
| 345 | Molecular characterization of the bacterial communities in the different compartments of a full-scale reverse-osmosis water purification plant. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 5297-304 | 4.8  | 101 |
| 344 | Response of anaerobic ammonium-oxidizing bacteria to hydroxylamine. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 4417-26                                                                              | 4.8  | 64  |
| 343 | Modelling nitrite in wastewater treatment systems: a discussion of different modelling concepts. <i>Water Science and Technology</i> , <b>2008</b> , 58, 1155-71                                                           | 2.2  | 105 |
| 342 | Monitoring and control of biofouling in nanofiltration and reverse osmosis membranes. <i>Water Science and Technology: Water Supply</i> , <b>2008</b> , 8, 449-458                                                         | 1.4  | 7   |
| 341 | Biological Wastewater Treatment: Principles, Modelling and Design <b>2008</b> ,                                                                                                                                            |      | 310 |
| 340 | Phototrophic biofilms and their potential applications. <i>Journal of Applied Phycology</i> , <b>2008</b> , 20, 227-235                                                                                                    | 3.2  | 171 |
| 339 | Diversity of microbial communities in open mixed culture fermentations: impact of the pH and carbon source. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 80, 1121-30                                      | 5.7  | 86  |
| 338 | Thermodynamic and kinetic characterization using process dynamics: acidophilic ferrous iron oxidation by <i>Leptospirillum ferrooxidans</i> . <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 100, 49-60           | 4.9  | 8   |
| 337 | Glycerol fermentation by (open) mixed cultures: a chemostat study. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 100, 1088-98                                                                                    | 4.9  | 93  |
| 336 | The membrane bioreactor: a novel tool to grow anammox bacteria as free cells. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 101, 286-94                                                                          | 4.9  | 372 |
| 335 | Temperature effects on the aerobic metabolism of glycogen-accumulating organisms. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 101, 295-306                                                                     | 4.9  | 28  |
| 334 | Nuclear magnetic resonance microscopy studies of membrane biofouling. <i>Journal of Membrane Science</i> , <b>2008</b> , 323, 37-44                                                                                        | 9.6  | 93  |
| 333 | Diversity and expression of cyanobacterial hupS genes in pure cultures and in a nitrogen-limited phototrophic biofilm. <i>FEMS Microbiology Ecology</i> , <b>2008</b> , 63, 292-300                                        | 4.3  | 5   |

|     |                                                                                                                                                                                                                                           |     |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 332 | Full-scale granular sludge Anammox process. <i>Water Science and Technology</i> , <b>2007</b> , 55, 27-33                                                                                                                                 | 2.2 | 125 |
| 331 | Modelling of an oil refinery wastewater treatment plant. <i>Environmental Technology (United Kingdom)</i> , <b>2007</b> , 28, 1273-84                                                                                                     | 2.6 | 8   |
| 330 | Different carbon isotope fractionation patterns during the development of phototrophic freshwater and marine biofilms. <i>Biogeosciences</i> , <b>2007</b> , 4, 613-626                                                                   | 4.6 | 27  |
| 329 | Kinetic model of a granular sludge SBR: influences on nutrient removal. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 97, 801-15                                                                                                | 4.9 | 118 |
| 328 | Short-term temperature effects on the anaerobic metabolism of glycogen accumulating organisms. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 97, 483-95                                                                         | 4.9 | 66  |
| 327 | Kinetic modeling of phototrophic biofilms: the PHOBIA model. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 97, 1064-79                                                                                                          | 4.9 | 72  |
| 326 | Influence of the pH on (open) mixed culture fermentation of glucose: a chemostat study. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 98, 69-79                                                                                 | 4.9 | 163 |
| 325 | Influence of temperature and pH on the kinetics of the Sharon nitritation process. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 471-480                                                                    | 3.5 | 136 |
| 324 | Biological nutrient removal in a sequencing batch reactor using ethanol as carbon source. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 898-904                                                             | 3.5 | 24  |
| 323 | Mixed culture biotechnology for bioenergy production. <i>Current Opinion in Biotechnology</i> , <b>2007</b> , 18, 207-12                                                                                                                  | 4.4 | 439 |
| 322 | Heterotrophic pioneers facilitate phototrophic biofilm development. <i>Microbial Ecology</i> , <b>2007</b> , 54, 578-85                                                                                                                   | 4.4 | 63  |
| 321 | Two ways to achieve an anammox influent from real reject water treatment at lab-scale: Partial SBR nitrification and SHARON process. <i>Process Biochemistry</i> , <b>2007</b> , 42, 715-720                                              | 4.8 | 93  |
| 320 | Substrate storage concepts in modeling activated sludge systems for tannery wastewaters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2007</b> , 42, 2159-66 | 2.3 | 6   |
| 319 | Kinetics of Phosphorus Release and Uptake in a Membrane-Assisted Biological Phosphorus Removal Process. <i>Journal of Environmental Engineering, ASCE</i> , <b>2007</b> , 133, 899-908                                                    | 2   | 12  |
| 318 | Experimental and simulation analysis of community structure of nitrifying bacteria in a membrane-aerated biofilm. <i>Water Science and Technology</i> , <b>2007</b> , 55, 283-90                                                          | 2.2 | 38  |
| 317 | Use of modelling for optimization and upgrade of a tropical wastewater treatment plant in a developing country. <i>Water Science and Technology</i> , <b>2007</b> , 56, 21-31                                                             | 2.2 | 9   |
| 316 | The membrane fouling simulator: a suitable tool for prediction and characterisation of membrane fouling. <i>Water Science and Technology</i> , <b>2007</b> , 55, 197-205                                                                  | 2.2 | 37  |
| 315 | Settling behaviour of aerobic granular sludge. <i>Water Science and Technology</i> , <b>2007</b> , 56, 55-63                                                                                                                              | 2.2 | 23  |

|     |                                                                                                                                                                                                                               |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 314 | Investigation of microbial communities on reverse osmosis membranes used for process water production. <i>Water Science and Technology</i> , <b>2007</b> , 55, 181-90                                                         | 2.2  | 20  |
| 313 | A PRACTICAL METHOD FOR QUANTIFICATION OF PAO AND GAO POPULATIONS IN ACTIVATED SLUDGE SYSTEMS. <i>Proceedings of the Water Environment Federation</i> , <b>2007</b> , 2007, 39-63                                              |      |     |
| 312 | Unraveling the source of nitric oxide emission during nitrification. <i>Water Environment Research</i> , <b>2007</b> , 79, 2499-509                                                                                           | 2.8  | 59  |
| 311 | A practical method for quantification of phosphorus- and glycogen-accumulating organism populations in activated sludge systems. <i>Water Environment Research</i> , <b>2007</b> , 79, 2487-98                                | 2.8  | 37  |
| 310 | Phosphate and potassium recovery from source separated urine through struvite precipitation. <i>Water Research</i> , <b>2007</b> , 41, 458-66                                                                                 | 12.5 | 324 |
| 309 | Startup of reactors for anoxic ammonium oxidation: experiences from the first full-scale anammox reactor in Rotterdam. <i>Water Research</i> , <b>2007</b> , 41, 4149-63                                                      | 12.5 | 835 |
| 308 | A computational model for biofilm-based microbial fuel cells. <i>Water Research</i> , <b>2007</b> , 41, 2921-40                                                                                                               | 12.5 | 303 |
| 307 | Development of a PCR for the detection and identification of cyanobacterial nifD genes. <i>Journal of Microbiological Methods</i> , <b>2007</b> , 70, 550-6                                                                   | 2.8  | 14  |
| 306 | Multi-scale individual-based model of microbial and bioconversion dynamics in aerobic granular sludge. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 6410-7                                               | 10.3 | 120 |
| 305 | Aerobic granular sludge--state of the art. <i>Water Science and Technology</i> , <b>2007</b> , 55, 75-81                                                                                                                      | 2.2  | 210 |
| 304 | Interaction between control and design of a SHARON reactor: economic considerations in a plant-wide (BSM2) context. <i>Water Science and Technology</i> , <b>2007</b> , 56, 117-25                                            | 2.2  | 13  |
| 303 | Structure of microbial communities performing the simultaneous reduction of Fe(II)EDTA.NO <sub>2</sub> <sup>-</sup> and Fe(III)EDTA <sup>-</sup> . <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 73, 922-31   | 5.7  | 8   |
| 302 | Nitrate-dependent [Fe(II)EDTA] <sub>2</sub> <sup>-</sup> oxidation by <i>Paracoccus ferrooxidans</i> sp. nov., isolated from a denitrifying bioreactor. <i>Systematic and Applied Microbiology</i> , <b>2006</b> , 29, 276-86 | 4.2  | 87  |
| 301 | Potential application of monolith packed columns as bioreactors, control of biofilm formation. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 238-45                                                             | 4.9  | 25  |
| 300 | Modeling product formation in anaerobic mixed culture fermentations. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 592-606                                                                                      | 4.9  | 171 |
| 299 | Modeling the utilization of starch by activated sludge for simultaneous substrate storage and microbial growth. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 43-53                                             | 4.9  | 58  |
| 298 | Experimental evaluation of starch utilization mechanism by activated sludge. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 964-70                                                                               | 4.9  | 34  |
| 297 | Determination of the decay rate of nitrifying bacteria. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 252-62.9                                                                                                  | 6.9  | 71  |

|     |                                                                                                                                                                                                       |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 296 | Three-dimensional biofilm model with individual cells and continuum EPS matrix. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 961-79                                                    | 4.9  | 131 |
| 295 | Integration of Processes to Treat Wastewater and Source-Separated Urine. <i>Journal of Environmental Engineering, ASCE</i> , <b>2006</b> , 132, 331-341                                               | 2    | 68  |
| 294 | Variable stoichiometry with thermodynamic control in ADM1. <i>Water Science and Technology</i> , <b>2006</b> , 54, 101-10                                                                             | 2.2  | 40  |
| 293 | Critical analysis of some concepts proposed in ADM1. <i>Water Science and Technology</i> , <b>2006</b> , 54, 51-7                                                                                     | 2.2  | 43  |
| 292 | Nitrification activities in full-scale treatment plants with varying salt loads. <i>Environmental Technology (United Kingdom)</i> , <b>2006</b> , 27, 635-43                                          | 2.6  | 18  |
| 291 | Waste characterization for implementation in ADM1. <i>Water Science and Technology</i> , <b>2006</b> , 54, 167-74                                                                                     | 2.2  | 61  |
| 290 | rRNA and poly-beta-hydroxybutyrate dynamics in bioreactors subjected to feast and famine cycles. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 2322-30                            | 4.8  | 21  |
| 289 | Global impact and application of the anaerobic ammonium-oxidizing (anammox) bacteria. <i>Biochemical Society Transactions</i> , <b>2006</b> , 34, 174-8                                               | 5.1  | 71  |
| 288 | Formation of Aerobic Granules with Domestic Sewage. <i>Journal of Environmental Engineering, ASCE</i> , <b>2006</b> , 132, 694-697                                                                    | 2    | 123 |
| 287 | Biological Nitrogen Removal via Nitrite of Reject Water with a SBR and Chemostat SHARON/Denitrification Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 7656-7660 | 3.9  | 20  |
| 286 | Long term effects of salt on activity, population structure and floc characteristics in enriched bacterial cultures of nitrifiers. <i>Water Research</i> , <b>2006</b> , 40, 1377-88                  | 12.5 | 198 |
| 285 | Continuity-based model interfacing for plant-wide simulation: a general approach. <i>Water Research</i> , <b>2006</b> , 40, 2817-28                                                                   | 12.5 | 42  |
| 284 | Multidimensional modelling to investigate interspecies hydrogen transfer in anaerobic biofilms. <i>Water Research</i> , <b>2006</b> , 40, 3099-3108                                                   | 12.5 | 70  |
| 283 | Potential phosphorus recovery in a WWTP with the BCFS process: interactions with the biological process. <i>Water Research</i> , <b>2006</b> , 40, 3507-16                                            | 12.5 | 31  |
| 282 | Enhancing bio-P removal by phosphate recovery from anaerobic supernatant. <i>Water Science and Technology: Water Supply</i> , <b>2006</b> , 6, 11-18                                                  | 1.4  |     |
| 281 | Role of nitrogen oxides in the metabolism of ammonia-oxidizing bacteria. <i>Biochemical Society Transactions</i> , <b>2006</b> , 34, 179-81                                                           | 5.1  | 28  |
| 280 | Effect of formaldehyde on biofilm activity and morphology in an ultracompact biofilm reactor for carbonaceous wastewater treatment. <i>Water Environment Research</i> , <b>2006</b> , 78, 372-80      | 2.8  | 3   |
| 279 | Controlling the nitrite:ammonium ratio in a SHARON reactor in view of its coupling with an Anammox process. <i>Water Science and Technology</i> , <b>2006</b> , 53, 45-54                             | 2.2  | 34  |

|     |                                                                                                                                                                                                                                                 |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 278 | Model-based evaluation of struvite recovery from an in-line stripper in a BNR process (BCFS). <i>Water Science and Technology</i> , <b>2006</b> , 53, 191-8                                                                                     | 2.2  | 19  |
| 277 | Optimization of nitrogen and phosphorus limitation for better biodegradable plastic production and organic removal using single fed-batch mixed cultures and renewable resources. <i>Water Science and Technology</i> , <b>2006</b> , 53, 15-20 | 2.2  | 23  |
| 276 | Plant-wide (BSM2) evaluation of reject water treatment with a SHARON-Anammox process. <i>Water Science and Technology</i> , <b>2006</b> , 54, 93-100                                                                                            | 2.2  | 9   |
| 275 | Integration of sulphate reduction, autotrophic denitrification and nitrification to achieve low-cost excess sludge minimisation for Hong Kong sewage. <i>Water Science and Technology</i> , <b>2006</b> , 53, 227-35                            | 2.2  | 75  |
| 274 | A more unifying hypothesis for biofilm structures. <i>FEMS Microbiology Ecology</i> , <b>2006</b> , 24, 181-183                                                                                                                                 | 4.3  | 6   |
| 273 | On the reproducibility of microcosm experiments - different community composition in parallel phototrophic biofilm microcosms. <i>FEMS Microbiology Ecology</i> , <b>2006</b> , 58, 169-78                                                      | 4.3  | 39  |
| 272 | Electrolytic stimulation of bacteria <i>Enterobacter dissolvens</i> by a direct current. <i>Biochemical Engineering Journal</i> , <b>2006</b> , 28, 23-29                                                                                       | 4.2  | 85  |
| 271 | Biological treatment of sludge digester liquids. <i>Water Science and Technology</i> , <b>2006</b> , 53, 11-20                                                                                                                                  | 2.2  | 80  |
| 270 | Modeling biofilm and floc diffusion processes based on analytical solution of reaction-diffusion equations. <i>Water Research</i> , <b>2005</b> , 39, 1311-23                                                                                   | 12.5 | 89  |
| 269 | Monoliths as Biocatalytic Reactors: Smart Gas-Liquid Contacting for Process Intensification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 9646-9652                                                               | 3.9  | 25  |
| 268 | Biofilm-control strategies based on enzymic disruption of the extracellular polymeric substance matrix—a modelling study. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 3817-3832                                                   | 2.9  | 140 |
| 267 | Effects of oxygen concentration on N-removal in an aerobic granular sludge reactor. <i>Water Research</i> , <b>2005</b> , 39, 2676-86                                                                                                           | 12.5 | 169 |
| 266 | Formation of aerobic granules and conversion processes in an aerobic granular sludge reactor at moderate and low temperatures. <i>Water Research</i> , <b>2005</b> , 39, 4476-84                                                                | 12.5 | 181 |
| 265 | Modelling nitrification, heterotrophic growth and predation in activated sludge. <i>Water Research</i> , <b>2005</b> , 39, 5080-98                                                                                                              | 12.5 | 102 |
| 264 | 1994-2004: 10 years of research on the anaerobic oxidation of ammonium. <i>Biochemical Society Transactions</i> , <b>2005</b> , 33, 119-23                                                                                                      | 5.1  | 143 |
| 263 | Biofilm growth pattern in honeycomb monolith packings: Effect of shear rate and substrate transport limitations. <i>Catalysis Today</i> , <b>2005</b> , 105, 448-454                                                                            | 5.3  | 30  |
| 262 | A framework for multidimensional modelling of activity and structure of multispecies biofilms. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 1085-103                                                                                    | 5.2  | 147 |
| 261 | High-rate acidophilic ferrous iron oxidation in a biofilm airlift reactor and the role of the carrier material. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 90, 462-72                                                              | 4.9  | 30  |

|     |                                                                                                                                                                                   |     |     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 260 | Simultaneous COD, nitrogen, and phosphate removal by aerobic granular sludge. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 90, 761-9                                   | 4.9 | 427 |
| 259 | A general description of detachment for multidimensional modelling of biofilms. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 91, 651-69                                | 4.9 | 117 |
| 258 | Rate based modeling of a sulfite reduction bioreactor. <i>AIChE Journal</i> , <b>2005</b> , 51, 1429-1439                                                                         | 3.6 | 3   |
| 257 | Model-based evaluation of oxygen consumption in a partial nitrification-Anammox biofilm process. <i>Water Science and Technology</i> , <b>2005</b> , 52, 155-160                  | 2.2 | 18  |
| 256 | Evaluation of separate urine collection and treatment to augment existing wastewater treatment works. <i>Water Science and Technology</i> , <b>2005</b> , 52, 71-80               | 2.2 | 2   |
| 255 | Coupling the SHARON process with Anammox: Model-based scenario analysis with focus on operating costs. <i>Water Science and Technology</i> , <b>2005</b> , 52, 107-115            | 2.2 | 15  |
| 254 | SHARON process evaluated for improved wastewater treatment plant nitrogen effluent quality. <i>Water Science and Technology</i> , <b>2005</b> , 52, 55-62                         | 2.2 | 13  |
| 253 | Multidimensional modelling of anaerobic granules. <i>Water Science and Technology</i> , <b>2005</b> , 52, 501-507                                                                 | 2.2 | 27  |
| 252 | Boosting nitrification with the BABE technology. <i>Water Science and Technology</i> , <b>2005</b> , 52, 63-70                                                                    | 2.2 | 58  |
| 251 | Characterization of microbial communities removing nitrogen oxides from flue gas: the BioDeNOx process. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 6345-52 | 4.8 | 33  |
| 250 | Multidimensional modelling of anaerobic granules. <i>Water Science and Technology</i> , <b>2005</b> , 52, 501-7                                                                   | 2.2 | 6   |
| 249 | SHARON process evaluated for improved wastewater treatment plant nitrogen effluent quality. <i>Water Science and Technology</i> , <b>2005</b> , 52, 55-62                         | 2.2 |     |
| 248 | Results from the multi-species Benchmark Problem (BM3) using one-dimensional models. <i>Water Science and Technology</i> , <b>2004</b> , 49, 163-168                              | 2.2 | 16  |
| 247 | The effect of anoxic selectors on sludge bulking. <i>Water Science and Technology</i> , <b>2004</b> , 50, 261-268                                                                 | 2.2 | 4   |
| 246 | Modelling a spatially heterogeneous biofilm and the bulk fluid: selected results from Benchmark Problem 2 (BM2). <i>Water Science and Technology</i> , <b>2004</b> , 49, 155-162  | 2.2 | 11  |
| 245 | Assessment of three-dimensional biofilm models through direct comparison with confocal microscopy imaging. <i>Water Science and Technology</i> , <b>2004</b> , 49, 177-185        | 2.2 | 25  |
| 244 | Use of Anammox in urban wastewater treatment. <i>Water Science and Technology: Water Supply</i> , <b>2004</b> , 4, 87-94                                                          | 1.4 | 20  |
| 243 | Full-scale application of the BABE technology. <i>Water Science and Technology</i> , <b>2004</b> , 50, 87-96                                                                      | 2.2 | 30  |

|     |                                                                                                                                                                             |      |     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 242 | Model-based evaluation of nitrogen removal in a tannery wastewater treatment plant. <i>Water Science and Technology</i> , <b>2004</b> , 50, 251-260                         | 2.2  | 9   |
| 241 | Comparing biofilm models for a single species biofilm system. <i>Water Science and Technology</i> , <b>2004</b> , 49, 145-154                                               | 2.2  | 24  |
| 240 | Selection of slow growing organisms as a means for improving aerobic granular sludge stability. <i>Water Science and Technology</i> , <b>2004</b> , 49, 9-17                | 2.2  | 301 |
| 239 | Aerobic granular sludge technology: an alternative to activated sludge?. <i>Water Science and Technology</i> , <b>2004</b> , 49, 1-7                                        | 2.2  | 141 |
| 238 | Model-based evaluation of COD influence on a partial nitrification-Anammox biofilm (CANON) process. <i>Water Science and Technology</i> , <b>2004</b> , 49, 83-90           | 2.2  | 44  |
| 237 | Advances in mathematical modeling of biofilm structure. <i>Biofilms</i> , <b>2004</b> , 1, 337-349                                                                          |      | 34  |
| 236 | A modelling study of the activity and structure of biofilms in biological reactors. <i>Biofilms</i> , <b>2004</b> , 1, 377-391                                              |      | 27  |
| 235 | Particle-based multidimensional multispecies biofilm model. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 3024-40                                       | 4.8  | 240 |
| 234 | Production of polyhydroxyalkanoates by mixed culture: recent trends and biotechnological importance. <i>Biotechnology Advances</i> , <b>2004</b> , 22, 261-79               | 17.8 | 294 |
| 233 | Application, eco-physiology and biodiversity of anaerobic ammonium-oxidizing bacteria. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2004</b> , 3, 255-264 | 13.9 | 61  |
| 232 | Bulking sludge in biological nutrient removal systems. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 86, 125-349                                                  |      | 55  |
| 231 | Activated sludge wastewater treatment plant modelling and simulation: state of the art. <i>Environmental Modelling and Software</i> , <b>2004</b> , 19, 763-783             | 5.2  | 306 |
| 230 | Effects of separate urine collection on advanced nutrient removal processes. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 1208-15                      | 10.3 | 51  |
| 229 | Three-dimensional dual-morphotype species modeling of activated sludge flocs. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 5632-41                     | 10.3 | 43  |
| 228 | Filamentous bulking sludge--a critical review. <i>Water Research</i> , <b>2004</b> , 38, 793-817                                                                            | 12.5 | 388 |
| 227 | Effect of nitrite on phosphate uptake by phosphate accumulating organisms. <i>Water Research</i> , <b>2004</b> , 38, 3760-8                                                 | 12.5 | 165 |
| 226 | Aerobic granular sludge technology: an alternative to activated sludge?. <i>Water Science and Technology</i> , <b>2004</b> , 49, 1-7                                        | 2.2  | 15  |
| 225 | Selection of slow growing organisms as a means for improving aerobic granular sludge stability. <i>Water Science and Technology</i> , <b>2004</b> , 49, 9-17                | 2.2  | 24  |



|     |                                                                                                                                                                                                                                                    |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 224 | Model-based evaluation of COD influence on a partial nitrification-Anammox biofilm (CANON) process. <i>Water Science and Technology</i> , <b>2004</b> , 49, 83-90                                                                                  | 2.2  | 10  |
| 223 | Comparing biofilm models for a single species biofilm system. <i>Water Science and Technology</i> , <b>2004</b> , 49, 145-54                                                                                                                       | 2.2  | 4   |
| 222 | The effect of anoxic selectors on sludge bulking. <i>Water Science and Technology</i> , <b>2004</b> , 50, 261-8                                                                                                                                    | 2.2  |     |
| 221 | Respirometric measurement of kinetic parameters: effect of activated sludge floc size. <i>Water Science and Technology</i> , <b>2003</b> , 48, 61-68                                                                                               | 2.2  | 161 |
| 220 | A proposed sustainable BNR plant with the emphasis on recovery of COD and phosphate. <i>Water Science and Technology</i> , <b>2003</b> , 48, 77-85                                                                                                 | 2.2  | 42  |
| 219 | Impact of separate urine collection on wastewater treatment systems. <i>Water Science and Technology</i> , <b>2003</b> , 48, 103-110                                                                                                               | 2.2  | 58  |
| 218 | From waste treatment to integrated resource management. <i>Water Science and Technology</i> , <b>2003</b> , 48, 1-9                                                                                                                                | 2.2  | 37  |
| 217 | Modification of Activated Sludge Model no. 3 considering direct growth on primary substrate. <i>Water Science and Technology</i> , <b>2003</b> , 47, 219-225                                                                                       | 2.2  | 42  |
| 216 | Improved method for determination of ammonia and nitrite oxidation activities in mixed bacterial cultures. <i>Applied Microbiology and Biotechnology</i> , <b>2003</b> , 63, 217-21                                                                | 5.7  | 37  |
| 215 | Effect of dissolved oxygen concentration on sludge settleability. <i>Applied Microbiology and Biotechnology</i> , <b>2003</b> , 62, 586-93                                                                                                         | 5.7  | 80  |
| 214 | Growth physiology and competitive interaction of obligately chemolithoautotrophic, haloalkaliphilic, sulfur-oxidizing bacteria from soda lakes. <i>Extremophiles</i> , <b>2003</b> , 7, 195-203                                                    | 3    | 51  |
| 213 | Production of polyhydroxyalkanoates by mixed microbial cultures. <i>Bioprocess and Biosystems Engineering</i> , <b>2003</b> , 25, 377-85                                                                                                           | 3.7  | 205 |
| 212 | Metabolic model for glycogen-accumulating organisms in anaerobic/aerobic activated sludge systems. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 81, 92-105                                                                              | 4.9  | 196 |
| 211 | Kinetics of the reactive absorption of hydrogen sulfide into aqueous ferric sulfate solutions. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 417-427                                                                                     | 4.4  | 43  |
| 210 | Rate-based modelling of SO <sub>2</sub> absorption into aqueous NaHCO <sub>3</sub> /Na <sub>2</sub> CO <sub>3</sub> solutions accompanied by the desorption of CO <sub>2</sub> . <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 3589-3600 | 4.4  | 67  |
| 209 | Degradation of polymers in a biofilm airlift suspension reactor. <i>Water Research</i> , <b>2003</b> , 37, 485-92                                                                                                                                  | 12.5 | 26  |
| 208 | Bio-augmentation by nitrification with return sludge. <i>Water Research</i> , <b>2003</b> , 37, 1794-804                                                                                                                                           | 12.5 | 44  |
| 207 | Study on the use of NADH fluorescence measurements for monitoring wastewater treatment systems. <i>Water Research</i> , <b>2003</b> , 37, 2732-8                                                                                                   | 12.5 | 43  |

|     |                                                                                                                                                                                                          |      |     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 206 | Effect of feeding pattern and storage on the sludge settleability under aerobic conditions. <i>Water Research</i> , <b>2003</b> , 37, 2555-70                                                            | 12.5 | 122 |
| 205 | Modification of Activated Sludge Model no. 3 considering direct growth on primary substrate. <i>Water Science and Technology</i> , <b>2003</b> , 47, 219-25                                              | 2.2  | 7   |
| 204 | A practical protocol for dynamic modelling of activated sludge systems. <i>Water Science and Technology</i> , <b>2002</b> , 45, 127-136                                                                  | 2.2  | 83  |
| 203 | Respirometric assessment of storage yield for different substrates. <i>Water Science and Technology</i> , <b>2002</b> , 46, 345-352                                                                      | 2.2  | 28  |
| 202 | Gas chromatographic analysis of polyhydroxybutyrate in activated sludge: a round-robin test. <i>Water Science and Technology</i> , <b>2002</b> , 46, 357-361                                             | 2.2  | 20  |
| 201 | Model-based evaluation of a new upgrading concept for N-removal. <i>Water Science and Technology</i> , <b>2002</b> , 45, 169-176                                                                         | 2.2  | 44  |
| 200 | Quantifying the impact of wastewater micronutrient composition on in situ growth activity of <i>Acinetobacter</i> spp.. <i>Water Science and Technology</i> , <b>2002</b> , 46, 443-447                  | 2.2  | 8   |
| 199 | Experimental assessment and modelling of nitrate utilisation for primary sludge. <i>Water Science and Technology</i> , <b>2002</b> , 46, 313-317                                                         | 2.2  |     |
| 198 | Error diagnostics and data reconciliation for activated sludge modelling using mass balances. <i>Water Science and Technology</i> , <b>2002</b> , 45, 145-156                                            | 2.2  | 47  |
| 197 | Modelling of activated sludge processes with structured biomass. <i>Water Science and Technology</i> , <b>2002</b> , 45, 13-23                                                                           | 2.2  | 39  |
| 196 | Experience with guidelines for wastewater characterisation in The Netherlands. <i>Water Science and Technology</i> , <b>2002</b> , 45, 77-87                                                             | 2.2  | 191 |
| 195 | Sensitivity analysis of a biofilm model describing a one-stage completely autotrophic nitrogen removal (CANON) process. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 77, 266-77               | 4.9  | 198 |
| 194 | Proposed modifications to metabolic model for glycogen-accumulating organisms under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 80, 277-9                              | 4.9  | 62  |
| 193 | Improved nitrogen removal by application of new nitrogen-cycle bacteria. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2002</b> , 1, 51-63                                              | 13.9 | 77  |
| 192 | Microbial community analysis by FISH for mathematical modelling of selective enrichment of gel-entrapped nitrifiers obtained from domestic wastewater. <i>Hydrobiologia</i> , <b>2002</b> , 469, 165-178 | 2.4  | 9   |
| 191 | Mathematical modelling of biofilm structures. <i>Antonie Van Leeuwenhoek</i> , <b>2002</b> , 81, 245-56                                                                                                  | 2.1  | 148 |
| 190 | Experimental Assessment of Bacterial Storage Yield. <i>Journal of Environmental Engineering, ASCE</i> , <b>2002</b> , 128, 1030-1035                                                                     | 2    | 20  |
| 189 | A Mathematical Model for Initiation of Microbiologically Influenced Corrosion by Differential Aeration. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, B211                          | 3.9  | 19  |

|     |                                                                                                                                                                              |      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 188 | Aerobic granulation in a sequencing batch airlift reactor. <i>Water Research</i> , <b>2002</b> , 36, 702-12                                                                  | 12.5 | 311 |
| 187 | Poly-beta-hydroxybutyrate metabolism in dynamically fed mixed microbial cultures. <i>Water Research</i> , <b>2002</b> , 36, 1167-80                                          | 12.5 | 197 |
| 186 | Modelling the start-up of a full-scale biological phosphorous and nitrogen removing WWTP. <i>Water Research</i> , <b>2002</b> , 36, 4667-82                                  | 12.5 | 33  |
| 185 | Model-based evaluation of temperature and inflow variations on a partial nitrification-ANAMMOX biofilm process. <i>Water Research</i> , <b>2002</b> , 36, 4839-49            | 12.5 | 167 |
| 184 | Inorganic Polyphosphates <b>2002</b> ,                                                                                                                                       |      | 1   |
| 183 | Modelling of activated sludge processes with structured biomass. <i>Water Science and Technology</i> , <b>2002</b> , 45, 13-23                                               | 2.2  | 1   |
| 182 | Individual-based modelling of biofilms. <i>Microbiology (United Kingdom)</i> , <b>2001</b> , 147, 2897-912                                                                   | 2.9  | 292 |
| 181 | Microbiology and application of the anaerobic ammonium oxidation ('anammox') process. <i>Current Opinion in Biotechnology</i> , <b>2001</b> , 12, 283-8                      | 11.4 | 443 |
| 180 | Two-dimensional model of biofilm detachment caused by internal stress from liquid flow. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 72, 205-218                  | 4.9  | 268 |
| 179 | Glycogen metabolism in aerobic mixed cultures. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 73, 85-94                                                             | 4.9  | 71  |
| 178 | N-removal in a granular sludge sequencing batch airlift reactor. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 75, 82-92                                           | 4.9  | 150 |
| 177 | Enhancement of organophosphorus hydrolase yield in <i>Escherichia coli</i> using multiple gene fusions. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 75, 100-3    | 4.9  | 26  |
| 176 | Model-Based Evaluation of Denitrifying P Removal in a Two-Sludge System. <i>Journal of Environmental Engineering, ASCE</i> , <b>2001</b> , 127, 112-118                      | 2    | 10  |
| 175 | Storage and degradation of poly-beta-hydroxybutyrate in activated sludge under aerobic conditions. <i>Water Research</i> , <b>2001</b> , 35, 2277-85                         | 12.5 | 64  |
| 174 | Simultaneous storage and degradation of PHB and glycogen in activated sludge cultures. <i>Water Research</i> , <b>2001</b> , 35, 2693-701                                    | 12.5 | 67  |
| 173 | Metabolic modelling of full-scale biological nitrogen and phosphorus removing wwtp's. <i>Water Research</i> , <b>2001</b> , 35, 2711-23                                      | 12.5 | 76  |
| 172 | Model-based evaluation of two BNR processes--UCT and A2N. <i>Water Research</i> , <b>2001</b> , 35, 2851-60                                                                  | 12.5 | 41  |
| 171 | Full-scale application of the SHARON process for treatment of rejection water of digested sludge dewatering. <i>Water Science and Technology</i> , <b>2001</b> , 43, 127-134 | 2.2  | 111 |

|     |                                                                                                                                                                                                                       |      |     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 170 | A New Deterministic Spatio-Temporal Continuum Model for Biofilm Development. <i>Journal of Theoretical Medicine</i> , <b>2001</b> , 3, 161-175                                                                        |      | 127 |
| 169 | Poly-Hydroxyalkanoate metabolism in activated sludge <b>2001</b> , 239-248                                                                                                                                            |      |     |
| 168 | Two-dimensional model of biofilm detachment caused by internal stress from liquid flow <b>2001</b> , 72, 205                                                                                                          |      | 2   |
| 167 | Two-dimensional model of biofilm detachment caused by internal stress from liquid flow <b>2001</b> , 72, 205                                                                                                          |      | 7   |
| 166 | Stoichiometry and kinetics of poly-beta-hydroxybutyrate metabolism in aerobic, slow growing, activated sludge cultures. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 379-89                            | 4.9  | 151 |
| 165 | A theoretical study on the effect of surface roughness on mass transport and transformation in biofilms. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 68, 355-69                                           | 4.9  | 112 |
| 164 | Stoichiometry and kinetics of poly-beta-hydroxybutyrate metabolism under denitrifying conditions in activated sludge cultures. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 68, 496-507                    | 4.9  | 91  |
| 163 | Effect of diffusive and convective substrate transport on biofilm structure formation: a two-dimensional modeling study. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 69, 504-15                           | 4.9  | 192 |
| 162 | A three-dimensional numerical study on the correlation of spatial structure, hydrodynamic conditions, and mass transfer and conversion in biofilms. <i>Chemical Engineering Science</i> , <b>2000</b> , 55, 6209-6222 | 4.4  | 116 |
| 161 | The biofilm airlift suspension extension reactor III: Three-phase hydrodynamics. <i>Chemical Engineering Science</i> , <b>2000</b> , 55, 699-711                                                                      | 4.4  | 16  |
| 160 | Particle-based biofilm reactor technology. <i>Trends in Biotechnology</i> , <b>2000</b> , 18, 312-20                                                                                                                  | 15.1 | 113 |
| 159 | Biofilm models for the practitioner. <i>Water Science and Technology</i> , <b>2000</b> , 41, 509-512                                                                                                                  | 2.2  | 27  |
| 158 | Integration of nitrification and denitrification in biofilm airlift suspension reactors. <i>Water Science and Technology</i> , <b>2000</b> , 41, 97-103                                                               | 2.2  | 10  |
| 157 | Modelling and predicting biofilm structure <b>2000</b> , 129-166                                                                                                                                                      |      | 12  |
| 156 | Influence of different substrates on the formation of biofilms in a biofilm airlift suspension reactor. <i>Water Science and Technology</i> , <b>2000</b> , 41, 323-330                                               | 2.2  | 20  |
| 155 | Modeling of Energy Spilling in Substrate-Sufficient Cultures. <i>Journal of Environmental Engineering, ASCE</i> , <b>2000</b> , 126, 979-980                                                                          | 2    | 2   |
| 154 | Modeling COD, N and P removal in a full-scale wwtp Haarlem Waarderpolder. <i>Water Research</i> , <b>2000</b> , 34, 846-858                                                                                           | 12.5 | 102 |
| 153 | Wastewater treatment with particulate biofilm reactors. <i>Journal of Biotechnology</i> , <b>2000</b> , 80, 1-33                                                                                                      | 3.7  | 329 |

|     |                                                                                                                                                                 |     |     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 152 | A theoretical study on the effect of surface roughness on mass transport and transformation in biofilms <b>2000</b> , 68, 355                                   |     | 1   |
| 151 | Effect of diffusive and convective substrate transport on biofilm structure formation: A two-dimensional modeling study <b>2000</b> , 69, 504                   |     | 2   |
| 150 | Discrete-differential modelling of biofilm structure. <i>Water Science and Technology</i> , <b>1999</b> , 39, 115-122                                           | 2.2 | 56  |
| 149 | Activated Sludge Model No. 3. <i>Water Science and Technology</i> , <b>1999</b> , 39, 183-193                                                                   | 2.2 | 300 |
| 148 | Temperature effects in bio-P removal. <i>Water Science and Technology</i> , <b>1999</b> , 39, 215-225                                                           | 2.2 | 8   |
| 147 | Innovative methods for sludge characterization in biological phosphorus removal systems. <i>Water Science and Technology</i> , <b>1999</b> , 39, 37-43          | 2.2 | 25  |
| 146 | Activated Sludge Model No.2d, ASM2D. <i>Water Science and Technology</i> , <b>1999</b> , 39, 165-182                                                            | 2.2 | 524 |
| 145 | Maintenance, endogeneous respiration, lysis, decay and predation. <i>Water Science and Technology</i> , <b>1999</b> , 39, 107-117                               | 2.2 | 113 |
| 144 | Identification of mass transfer parameters in three-phase biofilm reactors. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 3143-3152                   | 4.4 | 9   |
| 143 | The biofilm airlift suspension extension reactor. Part I: Design and two-phase hydrodynamics. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 1909-1924 | 4.4 | 20  |
| 142 | Bubble recirculation regimes in an internal-loop airlift reactor. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 3995-4006                             | 4.4 | 64  |
| 141 | Maintenance, endogeneous respiration, lysis, decay and predation. <i>Water Science and Technology</i> , <b>1999</b> , 39, 107                                   | 2.2 | 95  |
| 140 | Activated Sludge Model No. 3. <i>Water Science and Technology</i> , <b>1999</b> , 39, 183                                                                       | 2.2 | 242 |
| 139 | Temperature effects in bio-P removal. <i>Water Science and Technology</i> , <b>1999</b> , 39, 215                                                               | 2.2 | 4   |
| 138 | Activated Sludge Model No.2d, ASM2d. <i>Water Science and Technology</i> , <b>1999</b> , 39, 165                                                                | 2.2 | 189 |
| 137 | Analysis and design of suitable model structures for activated sludge tanks with circulating flow. <i>Water Science and Technology</i> , <b>1999</b> , 39, 55   | 2.2 | 6   |
| 136 | Coping with ever larger problems, models, and data bases. <i>Water Science and Technology</i> , <b>1999</b> , 39, 1                                             | 2.2 | 19  |
| 135 | Innovative methods for sludge characterization in biological phosphorus removal systems. <i>Water Science and Technology</i> , <b>1999</b> , 39, 37             | 2.2 | 7   |

|     |                                                                                                                                                                                                 |      |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 134 | Discrete-differential modelling of biofilm structure. <i>Water Science and Technology</i> , <b>1999</b> , 39, 115                                                                               | 2.2  | 38  |
| 133 | Model Based Design of a Novel Process for Nitrogen Removal from Concentrated Flows. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>1999</b> , 5, 351-371                  | 1    | 151 |
| 132 | Effect of temperature on storage polymers and settleability of activated sludge. <i>Water Research</i> , <b>1999</b> , 33, 2374-2382                                                            | 12.5 | 117 |
| 131 | Aerobic granulation in a sequencing batch reactor. <i>Water Research</i> , <b>1999</b> , 33, 2283-2290                                                                                          | 12.5 | 560 |
| 130 | Substrate flux into storage and growth in relation to activated sludge modeling. <i>Water Research</i> , <b>1999</b> , 33, 3149-3161                                                            | 12.5 | 111 |
| 129 | Modelling biological phosphorus and nitrogen removal in a full scale activated sludge process. <i>Water Research</i> , <b>1999</b> , 33, 3459-3468                                              | 12.5 | 107 |
| 128 | Model based evaluation of plant improvement strategies for biological nutrient removal. <i>Water Science and Technology</i> , <b>1999</b> , 39, 45-53                                           | 2.2  | 1   |
| 127 | Mass transfer and reaction in a biofilm airlift suspension reactor. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 2743-2753                                                           | 4.4  | 38  |
| 126 | Molecular microbial diversity in a nitrifying reactor system without sludge retention. <i>FEMS Microbiology Ecology</i> , <b>1998</b> , 27, 239-249                                             | 4.3  | 40  |
| 125 | The anaerobic oxidation of ammonium. <i>FEMS Microbiology Reviews</i> , <b>1998</b> , 22, 421-37                                                                                                | 15.1 | 510 |
| 124 | Bioassay for glycogen determination in biological phosphorus removal systems. <i>Water Science and Technology</i> , <b>1998</b> , 37, 541                                                       | 2.2  | 4   |
| 123 | The sharon process: An innovative method for nitrogen removal from ammonium-rich waste water. <i>Water Science and Technology</i> , <b>1998</b> , 37, 135                                       | 2.2  | 299 |
| 122 | Upgrading of waste water treatment processes for integrated nutrient removal – The BCFS process. <i>Water Science and Technology</i> , <b>1998</b> , 37, 209                                    | 2.2  | 28  |
| 121 | Microbiological conversions in nitrogen removal. <i>Water Science and Technology</i> , <b>1998</b> , 38, 1                                                                                      | 2.2  | 61  |
| 120 | A new combined differential-discrete cellular automaton approach for biofilm modeling: Application for growth in gel beads. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 57, 718-731 | 4.9  | 160 |
| 119 | Mathematical modeling of biofilm structure with a hybrid differential-discrete cellular automaton approach. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 58, 101-16                  | 4.9  | 325 |
| 118 | Influence of biomass production and detachment forces on biofilm structures in a biofilm airlift suspension reactor. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 58, 400-7          | 4.9  | 160 |
| 117 | Minimal aerobic sludge retention time in biological phosphorus removal systems. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 60, 326-32                                              | 4.9  | 32  |

|     |                                                                                                                                                                                                                     |      |     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 116 | Hydrodynamic characteristics and gas-liquid mass transfer in a biofilm airlift suspension reactor <b>1998</b> , 60, 627-635                                                                                         |      | 17  |
| 115 | Effect of polyphosphate limitation on the anaerobic metabolism of phosphorus-accumulating microorganisms. <i>Applied Microbiology and Biotechnology</i> , <b>1998</b> , 50, 273-276                                 | 5.7  | 35  |
| 114 | IMPACT OF EXCESSIVE AERATION ON BIOLOGICAL PHOSPHORUS REMOVAL FROM WASTEWATER. <i>Water Research</i> , <b>1998</b> , 32, 200-208                                                                                    | 12.5 | 124 |
| 113 | Influence of temperature on biological phosphorus removal: process and molecular ecological studies. <i>Water Research</i> , <b>1998</b> , 32, 1035-1048                                                            | 12.5 | 81  |
| 112 | Nitrogen removal using nitrifying biofilm growth and denitrifying suspended growth in a biofilm airlift suspension reactor coupled with a chemostat. <i>Water Research</i> , <b>1998</b> , 32, 2009-2018            | 12.5 | 27  |
| 111 | Microbiology and biochemistry of the enhanced biological phosphate removal process. <i>Water Research</i> , <b>1998</b> , 32, 3193-3207                                                                             | 12.5 | 711 |
| 110 | Nitrogen Removal in Intermittently Aerated Biofilm Airlift Reactor. <i>Journal of Environmental Engineering, ASCE</i> , <b>1998</b> , 124, 239-248                                                                  | 2    | 19  |
| 109 | Closure to Environmental Impacts of Nutrient Removal Processes: Case Study by Mark C. M. van Loosdrecht and Henry M. van Veldhuizen. <i>Journal of Environmental Engineering, ASCE</i> , <b>1998</b> , 124, 482-483 |      |     |
| 108 | The sharon process: an innovative method for nitrogen removal from ammonium-rich waste water. <i>Water Science and Technology</i> , <b>1998</b> , 37, 135-142                                                       | 2.2  | 380 |
| 107 | Upgrading of waste water treatment processes for integrated nutrient removal-the BCFS process. <i>Water Science and Technology</i> , <b>1998</b> , 37, 209-217                                                      | 2.2  | 65  |
| 106 | Microbiological conversions in nitrogen removal. <i>Water Science and Technology</i> , <b>1998</b> , 38, 1-7                                                                                                        | 2.2  | 166 |
| 105 | Bioassay for glycogen determination in biological phosphorus removal systems. <i>Water Science and Technology</i> , <b>1998</b> , 37, 541-547                                                                       | 2.2  | 3   |
| 104 | Mathematical modeling of biofilm structure with a hybrid differential-discrete cellular automaton approach <b>1998</b> , 58, 101                                                                                    |      | 9   |
| 103 | Influence of biomass production and detachment forces on biofilm structures in a biofilm airlift suspension reactor <b>1998</b> , 58, 400                                                                           |      | 4   |
| 102 | Environmental Impacts of Nutrient Removal Processes: Case Study. <i>Journal of Environmental Engineering, ASCE</i> , <b>1997</b> , 123, 33-40                                                                       | 2    | 22  |
| 101 | Temperature Effects on Physiology of Biological Phosphorus Removal. <i>Journal of Environmental Engineering, ASCE</i> , <b>1997</b> , 123, 144-153                                                                  | 2    | 75  |
| 100 | A sludge characterization assay for aerobic and denitrifying phosphorus removing sludge. <i>Water Research</i> , <b>1997</b> , 31, 471-478                                                                          | 12.5 | 136 |
| 99  | Occurrence of denitrifying phosphorus removing bacteria in modified UCT-type wastewater treatment plants. <i>Water Research</i> , <b>1997</b> , 31, 777-786                                                         | 12.5 | 137 |

|    |                                                                                                                                                                                                                                                      |      |     |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 98 | Kinetics and stoichiometry in the biological phosphorus removal process with short cycle times. <i>Water Research</i> , <b>1997</b> , 31, 918-928                                                                                                    | 12.5 | 21  |
| 97 | Aerobic granular sludge in a sequencing batch reactor. <i>Water Research</i> , <b>1997</b> , 31, 3191-3194                                                                                                                                           | 12.5 | 413 |
| 96 | Biological dephosphatation by activated sludge under denitrifying conditions: pH influence and occurrence of denitrifying dephosphatation in a full-scale waste water treatment plant. <i>Water Science and Technology</i> , <b>1997</b> , 36, 75-82 | 2.2  | 15  |
| 95 | Process design for nitrogen removal using nitrifying biofilm and denitrifying suspended growth in a biofilm airlift suspension reactor. <i>Water Science and Technology</i> , <b>1997</b> , 36, 119-128                                              | 2.2  | 30  |
| 94 | Towards a more sustainable municipal wastewater treatment system. <i>Water Science and Technology</i> , <b>1997</b> , 35, 171-180                                                                                                                    | 2.2  | 256 |
| 93 | Importance of bacterial storage polymers in bioprocesses. <i>Water Science and Technology</i> , <b>1997</b> , 35, 41-47.                                                                                                                             | 2.2  | 298 |
| 92 | Modelling the effect of oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. <i>Water Science and Technology</i> , <b>1997</b> , 36, 147-156                                                                        | 2.2  | 130 |
| 91 | Importance of bacterial storage polymers in bioprocesses. <i>Water Science and Technology</i> , <b>1997</b> , 35, 41                                                                                                                                 | 2.2  | 107 |
| 90 | Towards a more sustainable municipal wastewater treatment system. <i>Water Science and Technology</i> , <b>1997</b> , 35, 171                                                                                                                        | 2.2  | 90  |
| 89 | Process design for nitrogen removal using nitrifying biofilm and denitrifying suspended growth in a Biofilm Airlift Suspension reactor. <i>Water Science and Technology</i> , <b>1997</b> , 36, 119                                                  | 2.2  | 17  |
| 88 | Modelling the effect of oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. <i>Water Science and Technology</i> , <b>1997</b> , 36, 147                                                                            | 2.2  | 39  |
| 87 | Biological dephosphatation by activated sludge under denitrifying conditions: pH influence and occurrence of denitrifying dephosphatation in a full-scale waste water treatment plant. <i>Water Science and Technology</i> , <b>1997</b> , 36, 75    | 2.2  | 26  |
| 86 | Novel principles in the microbial conversion of nitrogen compounds. <i>Antonie Van Leeuwenhoek</i> , <b>1997</b> , 71, 75-93                                                                                                                         | 2.1  | 130 |
| 85 | Metabolism of micro-organisms responsible for enhanced biological phosphorus removal from wastewater. Use of dynamic enrichment cultures. <i>Antonie Van Leeuwenhoek</i> , <b>1997</b> , 71, 109-16                                                  | 2.1  | 47  |
| 84 | Biological phosphate removal processes. <i>Applied Microbiology and Biotechnology</i> , <b>1997</b> , 48, 289-296                                                                                                                                    | 5.7  | 126 |
| 83 | A more unifying hypothesis for biofilm structures. <i>FEMS Microbiology Ecology</i> , <b>1997</b> , 24, 181-183                                                                                                                                      | 4.3  | 65  |
| 82 | Abrasion of suspended biofilm pellets in airlift reactors: importance of shape, structure, and particle concentrations. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 53, 88-99                                                            | 4.9  | 39  |
| 81 | Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 53, 168-78                                                                      | 4.9  | 178 |



|    |                                                                                                                                                                                                                                  |      |     |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 80 | Control of heterotrophic layer formation on nitrifying biofilms in a biofilm airlift suspension reactor. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 53, 397-405                                                     | 4.9  | 47  |
| 79 | An integrated metabolic model for the aerobic and denitrifying biological phosphorus removal. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 54, 434-50                                                                 | 4.9  | 132 |
| 78 | Abrasion of suspended biofilm pellets in airlift reactors: effect of particle size. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 55, 206-15                                                                           | 4.9  | 23  |
| 77 | Kinetic modeling of poly(beta-hydroxybutyrate) production and consumption by <i>Paracoccus pantotrophus</i> under dynamic substrate supply. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 55, 773-82                   | 4.9  | 97  |
| 76 | Adhesion and biofilm development on suspended carriers in airlift reactors: hydrodynamic conditions versus surface characteristics. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 55, 880-9                            | 4.9  | 35  |
| 75 | Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor <b>1997</b> , 53, 168                                                                                                |      | 1   |
| 74 | Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor <b>1997</b> , 53, 168                                                                                                |      | 1   |
| 73 | A metabolic model for biological phosphorus removal by denitrifying organisms. <i>Biotechnology and Bioengineering</i> , <b>1996</b> , 52, 685-95                                                                                | 4.9  | 81  |
| 72 | ON THE MEASUREMENT OF THE FLOCCULATION CHARACTERISTICS OF BREWERS' YEAST. <i>Journal of the Institute of Brewing</i> , <b>1996</b> , 102, 333-342                                                                                | 2    | 6   |
| 71 | Model for Microbial Degradation of Nonpolar Organic Contaminants in a Soil Slurry Reactor. <i>Environmental Science &amp; Technology</i> , <b>1996</b> , 30, 779-786                                                             | 10.3 | 25  |
| 70 | Phosphorus and nitrogen removal with minimal COD requirement by integration of denitrifying dephosphatation and nitrification in a two-sludge system. <i>Water Research</i> , <b>1996</b> , 30, 1702-1710                        | 12.5 | 292 |
| 69 | The dynamic effects of potassium limitation on biological phosphorus removal. <i>Water Research</i> , <b>1996</b> , 30, 2323-2328                                                                                                | 12.5 | 46  |
| 68 | Steady-state analysis to evaluate the phosphate removal capacity and acetate requirement of biological phosphorus removing mainstream and sidestream process configurations. <i>Water Research</i> , <b>1996</b> , 30, 2748-2760 | 12.5 | 29  |
| 67 | Influence of detachment, substrate loading and reactor scale on the formation of biofilms in airlift reactors. <i>Applied Microbiology and Biotechnology</i> , <b>1996</b> , 45, 7-17                                            | 5.7  | 67  |
| 66 | Effect of cyclic oxygen exposure on the activity of denitrifying phosphorus removing bacteria. <i>Water Science and Technology</i> , <b>1996</b> , 34, 33-40                                                                     | 2.2  | 87  |
| 65 | The potential of off-gas analyses for monitoring wastewater treatment plants. <i>Water Science and Technology</i> , <b>1996</b> , 33, 13-23                                                                                      | 2.2  | 14  |
| 64 | The potential of off-gas analyses for monitoring wastewater treatment plants. <i>Water Science and Technology</i> , <b>1996</b> , 33, 13                                                                                         | 2.2  | 3   |
| 63 | Effect of cyclic oxygen exposure on the activity of denitrifying phosphorus removing bacteria. <i>Water Science and Technology</i> , <b>1996</b> , 34, 33                                                                        | 2.2  | 14  |

|    |                                                                                                                                                                                                    |     |     |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 62 | Biodegradability of diesel oil. <i>Biodegradation</i> , <b>1996</b> , 7, 73-81                                                                                                                     | 4.1 | 51  |
| 61 | Microbial Decontamination of Polluted Soil in a Slurry Process. <i>Journal of Environmental Engineering, ASCE</i> , <b>1996</b> , 122, 975-982                                                     | 2   | 8   |
| 60 | A metabolic model for biological phosphorus removal by denitrifying organisms <b>1996</b> , 52, 685                                                                                                |     | 48  |
| 59 | Population distribution in aerobic biofilms on small suspended particles. <i>Water Science and Technology</i> , <b>1995</b> , 31, 163                                                              | 2.2 | 19  |
| 58 | A metabolic model for the biological phosphorus removal process. <i>Water Science and Technology</i> , <b>1995</b> , 31, 79                                                                        | 2.2 | 20  |
| 57 | Biofilm structures. <i>Water Science and Technology</i> , <b>1995</b> , 32, 35                                                                                                                     | 2.2 | 113 |
| 56 | Solids retention time in heterotrophic and nitrifying biofilms in a biofilm airlift suspension reactor. <i>Water Science and Technology</i> , <b>1995</b> , 32, 53                                 | 2.2 | 7   |
| 55 | Population distribution in aerobic biofilms on small suspended particles. <i>Water Science and Technology</i> , <b>1995</b> , 31, 163-171                                                          | 2.2 | 52  |
| 54 | Solids retention time in heterotrophic and nitrifying biofilms in a biofilm airlift suspension reactor. <i>Water Science and Technology</i> , <b>1995</b> , 32, 53-60                              | 2.2 | 24  |
| 53 | A metabolic model for the biological phosphorus removal process. <i>Water Science and Technology</i> , <b>1995</b> , 31, 79-93                                                                     | 2.2 | 69  |
| 52 | Dynamics of biofilm detachment in biofilm airlift suspension reactors. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 45, 481-7                                                           | 4.9 | 35  |
| 51 | Detachment of biomass from suspended nongrowing spherical biofilms in airlift reactors. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 46, 258-69                                         | 4.9 | 62  |
| 50 | A structured metabolic model for anaerobic and aerobic stoichiometry and kinetics of the biological phosphorus removal process. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 47, 277-87 | 4.9 | 153 |
| 49 | Formation of nitrifying biofilms on small suspended particles in airlift reactors. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 47, 585-95                                              | 4.9 | 55  |
| 48 | A metabolic model of the biological phosphorus removal process: I. Effect of the sludge retention time. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 48, 222-33                         | 4.9 | 65  |
| 47 | A metabolic model of the biological phosphorus removal process: II. Validation during start-up conditions. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 48, 234-45                      | 4.9 | 14  |
| 46 | Biofilm structures. <i>Water Science and Technology</i> , <b>1995</b> , 32, 35-43                                                                                                                  | 2.2 | 133 |
| 45 | pH: Keyfactor in the Biological Phosphorus Removal Process. <i>Water Science and Technology</i> , <b>1994</b> , 29, 71-74                                                                          | 2.2 | 11  |

|    |                                                                                                                                                                                                  |      |     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 44 | Effect of nitrate on phosphorus release in biological phosphorus removal systems. <i>Water Science and Technology</i> , <b>1994</b> , 30, 263-269                                                | 2.2  | 139 |
| 43 | Dynamics of population and biofilm structure in the biofilm airlift suspension reactor for carbon and nitrogen removal. <i>Water Science and Technology</i> , <b>1994</b> , 29, 377-384          | 2.2  | 31  |
| 42 | How important is the physicochemical interaction in the flocculation of yeast cells?. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>1994</b> , 2, 165-171                                   | 6    | 14  |
| 41 | Model of the anaerobic metabolism of the biological phosphorus removal process: Stoichiometry and pH influence. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 43, 461-70               | 4.9  | 581 |
| 40 | Heterogeneity of biofilms in rotating annular reactors: Occurrence, structure, and consequences. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 194-204                             | 4.9  | 84  |
| 39 | Formation and growth of heterotrophic aerobic biofilms on small suspended particles in airlift reactors. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 595-608                     | 4.9  | 176 |
| 38 | Stoichiometric model of the aerobic metabolism of the biological phosphorus removal process. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 837-48                                  | 4.9  | 300 |
| 37 | Solids retention time in spherical biofilms in a biofilm airlift suspension reactor. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 867-79                                          | 4.9  | 50  |
| 36 | Biological Phosphorus Removal from Wastewater by Anaerobic-Anoxic Sequencing Batch Reactor. <i>Water Science and Technology</i> , <b>1993</b> , 27, 241-252                                      | 2.2  | 232 |
| 35 | Development and Scale-Up of an Aerobic Biofilm Air-Lift Suspension Reactor. <i>Water Science and Technology</i> , <b>1993</b> , 27, 253-261                                                      | 2.2  | 31  |
| 34 | A thermodynamically based correlation for maintenance gibbs energy requirements in aerobic and anaerobic chemotrophic growth. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 42, 509-19 | 4.9  | 200 |
| 33 | On-line measurement of Brewer's yeast flocculation during fermentation. <i>Biotechnology Letters</i> , <b>1993</b> , 7, 651-656                                                                  |      | 4   |
| 32 | Biofilm bioreactors for waste-water treatment. <i>Trends in Biotechnology</i> , <b>1993</b> , 11, 117-121                                                                                        | 15.1 | 67  |
| 31 | Nitrification with Biofilms on Small Suspended Particles in Airlift Reactors. <i>Water Science and Technology</i> , <b>1992</b> , 26, 2207-2211                                                  | 2.2  | 9   |
| 30 | Formation of Biofilms in a Biofilm Air-Lift Suspension Reactor. <i>Water Science and Technology</i> , <b>1992</b> , 26, 647-654                                                                  | 2.2  | 38  |
| 29 | Formation of Biofilms on Small Suspended Particles in Airlift Reactors. <i>Water Science and Technology</i> , <b>1992</b> , 26, 2015-2019                                                        | 2.2  | 9   |
| 28 | A black box mathematical model to calculate auto- and heterotrophic biomass yields based on Gibbs energy dissipation. <i>Biotechnology and Bioengineering</i> , <b>1992</b> , 40, 1139-54        | 4.9  | 101 |
| 27 | Energetics of bacterial adhesion. <i>Experientia</i> , <b>1990</b> , 46, 817-822                                                                                                                 |      | 48  |

|    |                                                                                                                                                                                                                                                                                                   |           |     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|
| 26 | Hydrophobic and electrostatic parameters in bacterial adhesion. <i>Aquatic Sciences</i> , <b>1990</b> , 52, 103-114                                                                                                                                                                               | 2.5       | 201 |
| 25 | Physical chemical description of bacterial adhesion. <i>Journal of Biomaterials Applications</i> , <b>1990</b> , 5, 91-106                                                                                                                                                                        | 2.9       | 102 |
| 24 | Bacterial adhesion: A physicochemical approach. <i>Microbial Ecology</i> , <b>1989</b> , 17, 1-15                                                                                                                                                                                                 | 4.4       | 400 |
| 23 | Adhesion of bacteria to polystyrene surfaces. <i>Colloids and Surfaces</i> , <b>1989</b> , 39, 175-187                                                                                                                                                                                            |           | 24  |
| 22 | Isolation and characterization of mutants of <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> 248 with altered lipopolysaccharides: possible role of surface charge or hydrophobicity in bacterial release from the infection thread. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 1143-50 | 3.5       | 98  |
| 21 | Mutational changes in physicochemical cell surface properties of plant-growth-stimulating <i>Pseudomonas</i> spp. do not influence the attachment properties of the cells. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 2756-61                                                            | 3.5       | 34  |
| 20 | Microbial degradation of nitrilotriacetate (NTA) during river water/groundwater infiltration: Laboratory column studies. <i>Water Research</i> , <b>1987</b> , 21, 1237-1248                                                                                                                      | 12.5      | 30  |
| 19 | The role of bacterial cell wall hydrophobicity in adhesion. <i>Applied and Environmental Microbiology</i> , <b>1987</b> , 53, 1893-7                                                                                                                                                              | 4.8       | 665 |
| 18 | Electrophoretic mobility and hydrophobicity as a measured to predict the initial steps of bacterial adhesion. <i>Applied and Environmental Microbiology</i> , <b>1987</b> , 53, 1898-901                                                                                                          | 4.8       | 560 |
| 17 | Some Physiological Characteristics of <i>Acinetobacter</i> spp. Accumulating Large Amounts of Phosphate. <i>Water Science and Technology</i> , <b>1985</b> , 17, 119-125                                                                                                                          | 2.2       | 94  |
| 16 | Biological Stabilisers in Earthen Construction: A Mechanistic Understanding of their Response to Water-Ingress                                                                                                                                                                                    |           |     |
| 15 | Coating of reverse osmosis membranes with amphiphilic copolymers for biofouling control                                                                                                                                                                                                           | 68, 1-11  | 14  |
| 14 | Application of DBNPA dosage for biofouling control in spiral wound membrane systems                                                                                                                                                                                                               | 68, 12-22 | 15  |
| 13 | Applicability of short-term accelerated biofouling studies to predict long-term biofouling accumulation in reverse osmosis membrane systems                                                                                                                                                       | 97, 72-78 | 9   |
| 12 | The membrane fouling simulator: development, application, and early-warning of biofouling in RO treatment                                                                                                                                                                                         | 126, 1-23 | 4   |
| 11 | Carbon isotope fractionation in developing natural phototrophic biofilms                                                                                                                                                                                                                          |           | 3   |
| 10 | Water quality and treatment of river bank filtrate                                                                                                                                                                                                                                                |           | 5   |
| 9  | On anammox activity at low temperature: effect of ladderane composition, process conditions and dominant anammox population                                                                                                                                                                       |           | 2   |

|   |                                                                                                                                                                                      |   |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 8 | A novel method to isolate free-floating extracellular DNA from wastewater for quantitation and metagenomic profiling of mobile genetic elements and antibiotic resistance genes      | 3 |
| 7 | Quantitative profiling of microbial communities by de novo metaproteomics                                                                                                            | 1 |
| 6 | Effects of light / dark diel cycles on the photoorganoheterotrophic metabolism of <i>Rhodospseudomonas palustris</i> for differential electron allocation to PHAs and H <sub>2</sub> | 1 |
| 5 | Antibiotic resistance genes and mobile genetic elements removal from treated wastewater by sewage-sludge biochar and iron-oxide coated sand                                          | 2 |
| 4 | A general approach to explore prokaryotic protein glycosylation reveals the unique surface layer modulation of an anammox bacterium                                                  | 1 |
| 3 | Revealing metabolic flexibility of <i>Candidatus Accumulibacter phosphatis</i> through redox cofactor analysis and metabolic network modeling                                        | 6 |
| 2 | The environment selects: Modeling energy allocation in microbial communities under dynamic environments                                                                              | 2 |
| 1 | Isolation of a putative S-layer protein from anammox biofilm extracellular matrix using ionic liquid extraction                                                                      | 2 |