# Barth F Smets

List of Publications by Year
in descending order

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|---|---|---|---|
| 247 papers | 12,767 citations | 23500 58 h-index | 34900 98 g-index |
| 257 all docs | 257 docs citations | 257 times ranked | 10894 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Survival strategy of comammox bacteria in a wastewater nutrient removal system with sludge fermentation liquid as additional carbon source. Science of the Total Environment, 2022, 802, 149862. | 3.9 | 13 |
| 2 | Intermittent aeration to regulate microbial activities in membrane-aerated biofilm reactors: Energy-efficient nitrogen removal and low nitrous oxide emission. Chemical Engineering Journal, 2022, 433, 133630. | 6.6 | 18 |
| 3 | Evolutionary Ecology of Natural Comammox Nitrospira Populations. MSystems, 2022, 7, e0113921. | 1.7 | 14 |
| 4 | IncHI1A plasmids potentially facilitate horizontal flow of antibiotic resistance genes to pathogens in microbial communities of urban residential sewage. Molecular Ecology, 2022, 31, 1595-1608. | 2.0 | 14 |
| 5 | Aggregation of purple bacteria in an upflow photobioreactor to facilitate solid/liquid separation: Impact of organic loading rate, hydraulic retention time and water composition. Bioresource Technology, 2022, 348, 126806. | 4.8 | 6 |
| 6 | Modelling N2O production and emissions. , 2022, , 167-196. | | 0 |
| 7 | Chronic effects of cerium dioxide nanoparticles on biological nitrogen removal and nitrous oxide emission: Insight into impact mechanism and performance recovery potential. Bioresource Technology, 2022, 351, 126966. | 4.8 | 1 |
| 8 | Time to actâ€“assessing variations in qPCR analyses in biological nitrogen removal with examples from partial nitritation/anammox systems. Water Research, 2021, 190, 116604. | 5.3 | 8 |
| 9 | Stable nitrogen removal by anammox process after rapid temperature drops: Insights from metagenomics and metaproteomics. Bioresource Technology, 2021, 320, 124231. | 4.8 | 20 |
| 10 | Temperature modulates stress response in mainstream anammox reactors. Communications Biology, 2021, 4, 23. | 2.0 | 15 |
| 11 | Role of Ammonia Oxidation in Organic Micropollutant Transformation during Wastewater Treatment: Insights from Molecular, Cellular, and Community Level Observations. Environmental Science & Technology, 2021, 55, 2173-2188. | 4.6 | 49 |
| 12 | Extended-Spectrum Î²-Lactamase and Carbapenemase Genes are Substantially and Sequentially Reduced during Conveyance and Treatment of Urban Sewage. Environmental Science & Technology, 2021, 55, 5939-5949. | 4.6 | 24 |
| 13 | Insights into chronic zinc oxide nanoparticle stress responses of biological nitrogen removal system with nitrous oxide emission and its recovery potential. Bioresource Technology, 2021, 327, 124797. | 4.8 | 19 |
| 14 | Combination of <sup>15</sup>N Tracer and Microbial Analyses Discloses N<sub>2</sub>O Sink Potential of the Anammox Community. Environmental Science & Technology, 2021, 55, 9231-9242. | 4.6 | 23 |
| 15 | Pathogenic and Indigenous Denitrifying Bacteria are Transcriptionally Active and Key Multi-Antibiotic-Resistant Players in Wastewater Treatment Plants. Environmental Science & Technology, 2021, 55, 10862-10874. | 4.6 | 60 |
| 16 | EMBRACE-WATERS statement: Recommendations for reporting of studies on antimicrobial resistance in wastewater and related aquatic environments. One Health, 2021, 13, 100339. | 1.5 | 11 |
| 17 | Response to â€œComment on â€˜Role of Ammonia Oxidation in Organic Micropollutant Transformation during Wastewater Treatmentâ€™: Overlooked Evidence to the Contraryâ€• Environmental Science & Technology, 2021, 55, 16783-16784. | 4.6 | 1 |
| 18 | Dewatering methanotrophic enrichments intended for single cell protein production using biomimetic aquaporin forward osmosis membranes. Separation and Purification Technology, 2020, 235, 116133. | 3.9 | 21 |

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| 19 | Modelling N2O dynamics of activated sludge biomass: Uncertainty analysis and pathway contributions. Chemical Engineering Journal, 2020, 379, 122311. | 6.6 | 22 |
| 20 | A converging subset of soil bacterial taxa is permissive to the IncP-1 plasmid pKJK5 across a range of soil copper contamination. FEMS Microbiology Ecology, 2020, 96, . | 1.3 | 9 |
| 21 | Cultivation of methanotrophic bacteria in a novel bubble-free membrane bioreactor for microbial protein production. Bioresource Technology, 2020, 310, 123388. | 4.8 | 34 |
| 22 | Modeling Denitrification as an Electric Circuit Accurately Captures Electron Competition between Individual Reductive Steps: The Activated Sludge Modelâ€“Electron Competition Model. Environmental Science & Technology, 2020, 54, 7330-7338. | 4.6 | 14 |
| 23 | Comparison of antibiotic-resistant bacteria and antibiotic resistance genes abundance in hospital and community wastewater: A systematic review. Science of the Total Environment, 2020, 743, 140804. | 3.9 | 126 |
| 24 | Minimum influent concentrations of oxytetracycline, streptomycin and spiramycin in selecting antibiotic resistance in biofilm type wastewater treatment systems. Science of the Total Environment, 2020, 720, 137531. | 3.9 | 40 |
| 25 | Coupling electrochemical ammonia extraction and cultivation of methane oxidizing bacteria for production of microbial protein. Journal of Environmental Management, 2020, 265, 110560. | 3.8 | 21 |
| 26 | Plasmids persist in a microbial community by providing fitness benefit to multiple phylotypes. ISME Journal, 2020, 14, 1170-1181. | 4.4 | 62 |
| 27 | Spatial ecology of a wastewater network defines the antibiotic resistance genes in downstream receiving waters. Water Research, 2019, 162, 347-357. | 5.3 | 108 |
| 28 | Fate of Labile Organic Carbon in Paddy Soil Is Regulated by Microbial Ferric Iron Reduction. Environmental Science & Technology, 2019, 53, 8533-8542. | 4.6 | 42 |
| 29 | Copper-Induced Stimulation of Nitrification in Biological Rapid Sand Filters for Drinking Water Production by Proliferation of Nitrosomonas spp.. Environmental Science & Technology, 2019, 53, 12433-12441. | 4.6 | 13 |
| 30 | Enrichment, Isolation, and Characterization of High-Affinity N<sub>2</sub>O-Reducing Bacteria in a Gas-Permeable Membrane Reactor. Environmental Science & Technology, 2019, 53, 12101-12112. | 4.6 | 38 |
| 31 | Guild Composition of Root-Associated Bacteria Changes with Increased Soil Contamination. Microbial Ecology, 2019, 78, 416-427. | 1.4 | 3 |
| 32 | Modelling carbofuran biotransformation byNovosphingobiumsp. KN65.2 in the presence of coincidental carbon and indigenous microbes. Environmental Science: Water Research and Technology, 2019, 5, 798-807. | 1.2 | 7 |
| 33 | The effect of pH on N2O production in intermittently-fed nitritation reactors. Water Research, 2019, 156, 223-231. | 5.3 | 36 |
| 34 | Regulation of key N2O production mechanisms during biological water treatment. Current Opinion in Biotechnology, 2019, 57, 119-126. | 3.3 | 32 |
| 35 | Abiotic Nitrous Oxide (N<sub>2</sub>O) Production Is Strongly pH Dependent, but Contributes Little to Overall N<sub>2</sub>O Emissions in Biological Nitrogen Removal Systems. Environmental Science & Technology, 2019, 53, 3508-3516. | 4.6 | 53 |
| 36 | DNA- and RNA-SIP Reveal Nitrospira spp. as Key Drivers of Nitrification in Groundwater-Fed Biofilters. MBio, 2019, 10, . | 1.8 | 33 |

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| 37 | National innovative capacity in the water sector: A comparison between China and Europe. Journal of Cleaner Production, 2019, 210, 325-342. | 4.6 | 6 |
| 38 | Methanotrophic contribution to biodegradation of phenoxy acids in cultures enriched from a groundwater-fed rapid sand filter. Applied Microbiology and Biotechnology, 2019, 103, 1007-1019. | 1.7 | 13 |
| 39 | Removal of micropollutants during biological phosphorus removal: Impact of redox conditions in MBBR. Science of the Total Environment, 2019, 663, 496-506. | 3.9 | 50 |
| 40 | Comparative genomics sheds light on niche differentiation and the evolutionary history of comammox Nitrospira. ISME Journal, 2018, 12, 1779-1793. | 4.4 | 249 |
| 41 | Reactor staging influences microbial community composition and diversity of denitrifying MBBRs-Implications on pharmaceutical removal. Water Research, 2018, 138, 333-345. | 5.3 | 41 |
| 42 | Estimating the Transfer Range of Plasmids Encoding Antimicrobial Resistance in a Wastewater Treatment Plant Microbial Community. Environmental Science and Technology Letters, 2018, 5, 260-265. | 3.9 | 98 |
| 43 | The pH dependency of Nâ€converting enzymatic processes, pathways and microbes: effect on net N<sub>2</sub>O production. Environmental Microbiology, 2018, 20, 1623-1640. | 1.8 | 80 |
| 44 | Comammox Nitrospira are abundant ammonia oxidizers in diverse groundwaterâ€fed rapid sand filter communities. Environmental Microbiology, 2018, 20, 1002-1015. | 1.8 | 211 |
| 45 | Evidence of co-metabolic bentazone transformation by methanotrophic enrichment from a groundwater-fed rapid sand filter. Water Research, 2018, 129, 105-114. | 5.3 | 36 |
| 46 | Nitrous oxide production in intermittently aerated Partial Nitritation-Anammox reactor: oxic N2O production dominates and relates with ammonia removal rate. Chemical Engineering Journal, 2018, 335, 458-466. | 6.6 | 43 |
| 47 | Diversity of Iron Oxidizers in Groundwater-Fed Rapid Sand Filters: Evidence of Fe(II)-Dependent Growth by Curvibacter and Undibacterium spp.. Frontiers in Microbiology, 2018, 9, 2808. | 1.5 | 33 |
| 48 | Corrigendum to â€œDecay Experiments of Effective N-Removing Microbial Communities in Sequencing Batch Reactorsâ€. Journal of Chemistry, 2018, 2018, 1-1. | 0.9 | 0 |
| 49 | Nitrous oxide emissions from biofilm processes for wastewater treatment. Applied Microbiology and Biotechnology, 2018, 102, 9815-9829. | 1.7 | 71 |
| 50 | Stochastic processes govern invasion success in microbial communities when the invader is phylogenetically close to resident bacteria. ISME Journal, 2018, 12, 2748-2756. | 4.4 | 41 |
| 51 | The industrial dynamics of water innovation: A comparison between China and Europe. International Journal of Innovation Studies, 2018, 2, 14-32. | 1.4 | 17 |
| 52 | Does universal 16S rRNA gene amplicon sequencing of environmental communities provide an accurate description of nitrifying guilds?. Journal of Microbiological Methods, 2018, 151, 28-34. | 0.7 | 11 |
| 53 | Water and sanitation: an essential battlefront in the war on antimicrobial resistance. FEMS Microbiology Ecology, 2018, 94, . | 1.3 | 104 |
| 54 | From biofilm ecology to reactors: a focused review. Water Science and Technology, 2017, 75, 1753-1760. | 1.2 | 79 |

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| 55 | Intermittent Aeration Suppresses Nitrite-Oxidizing Bacteria in Membrane-Aerated Biofilms: A Model-Based Explanation. Environmental Science & Technology, 2017, 51, 6146-6155. | 4.6 | 68 |
| 56 | Diffusion and sorption of organic micropollutants in biofilms with varying thicknesses. Water Research, 2017, 123, 388-400. | 5.3 | 87 |
| 57 | Nitrotoga is selected over Nitrospira in newly assembled biofilm communities from a tap water source community at increased nitrite loading. Environmental Microbiology, 2017, 19, 2785-2793. | 1.8 | 32 |
| 58 | Bacteria from wheat and cucurbit plant roots metabolize PAHs and aromatic root exudates: Implications for rhizodegradation. International Journal of Phytoremediation, 2017, 19, 877-883. | 1.7 | 32 |
| 59 | Microbial biotechnologies for potable water production. Microbial Biotechnology, 2017, 10, 1094-1097. | 2.0 | 12 |
| 60 | Density and distribution of nitrifying guilds in rapid sand filters for drinking water production: Dominance of Nitrospira spp.. Water Research, 2017, 127, 239-248. | 5.3 | 74 |
| 61 | Calibration of the comprehensive NDHA-N2O dynamics model for nitrifier-enriched biomass using targeted respirometric assays. Water Research, 2017, 126, 29-39. | 5.3 | 12 |
| 62 | Counter-diffusion biofilms have lower N2O emissions than co-diffusion biofilms during simultaneous nitrification and denitrification: Insights from depth-profile analysis. Water Research, 2017, 124, 363-371. | 5.3 | 87 |
| 63 | Challenges in using allylthiourea and chlorate as specific nitrification inhibitors. Chemosphere, 2017, 182, 301-305. | 4.2 | 30 |
| 64 | Low nitrous oxide production through nitrifier-denitrification in intermittent-feed high-rate nitritation reactors. Water Research, 2017, 123, 429-438. | 5.3 | 36 |
| 65 | Pathways and Controls of N<sub>2</sub>O Production in Nitritationâ€“Anammox Biomass. Environmental Science & Technology, 2017, 51, 8981-8991. | 4.6 | 59 |
| 66 | Heterotrophs are key contributors to nitrous oxide production in activated sludge under low Câ€toâ€N ratios during nitrificationâ€”Batch experiments and modeling. Biotechnology and Bioengineering, 2017, 114, 132-140. | 1.7 | 24 |
| 67 | Metal stressors consistently modulate bacterial conjugal plasmid uptake potential in a phylogenetically conserved manner. ISME Journal, 2017, 11, 152-165. | 4.4 | 114 |
| 68 | Underestimation of ammoniaâ€oxidizing bacteria abundance by amplification bias in amoAâ€targeted <scp>qPCR</scp>. Microbial Biotechnology, 2016, 9, 519-524. | 2.0 | 27 |
| 69 | Challenges in microbial ecology: building predictive understanding of community function and dynamics. ISME Journal, 2016, 10, 2557-2568. | 4.4 | 570 |
| 70 | A conceptual framework for invasion in microbial communities. ISME Journal, 2016, 10, 2773-2779. | 4.4 | 100 |
| 71 | Metagenomic analysis of rapid gravity sand filter microbial communities suggests novel physiology of Nitrospira spp.. ISME Journal, 2016, 10, 2569-2581. | 4.4 | 213 |
| 72 | Structural and functional robustness of an environmental bacterial community degrading diesel fuel. New Biotechnology, 2016, 33, S128. | 2.4 | 0 |

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| 73 | A consilience model to describe N<sub>2</sub>O production during biological N removal. Environmental Science: Water Research and Technology, 2016, 2, 923-930. | 1.2 | 27 |
| 74 | Towards a consensus-based biokinetic model for green microalgaeÂâ€“ÂThe ASM-A. Water Research, 2016, 103, 485-499. | 5.3 | 57 |
| 75 | Biofilm Thickness Influences Biodiversity in Nitrifying MBBRsâ€”Implications on Micropollutant Removal. Environmental Science & Technology, 2016, 50, 9279-9288. | 4.6 | 135 |
| 76 | Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. New Biotechnology, 2016, 33, 852-859. | 2.4 | 30 |
| 77 | Short-sludge age EBPR process â€“ Microbial and biochemical process characterisation during reactor start-up and operation. Water Research, 2016, 104, 320-329. | 5.3 | 57 |
| 78 | Harvesting microalgae using activated sludge can decrease polymer dosing and enhance methane production via co-digestion in a bacterial-microalgal process. Algal Research, 2016, 20, 197-204. | 2.4 | 19 |
| 79 | Depth investigation of rapid sand filters for drinking water production reveals strong stratification in nitrification biokinetic behavior. Water Research, 2016, 101, 402-410. | 5.3 | 29 |
| 80 | Microbes in biological processes for municipal landfill leachate treatment: Community, function and interaction. International Biodeterioration and Biodegradation, 2016, 113, 88-96. | 1.9 | 74 |
| 81 | Ecological patterns, diversity and core taxa of microbial communities in groundwater-fed rapid gravity filters. ISME Journal, 2016, 10, 2209-2222. | 4.4 | 125 |
| 82 | Evaluating Alternate Biokinetic Models for Trace Pollutant Cometabolism. Environmental Science & Technology, 2015, 49, 2230-2236. | 4.6 | 30 |
| 83 | A nitrate sensitive planar optode; performance and interferences. Talanta, 2015, 144, 933-937. | 2.9 | 8 |
| 84 | Measuring biogeochemical heterogeneity at the micro scale in soils and sediments. Soil Biology and Biochemistry, 2015, 90, 122-138. | 4.2 | 37 |
| 85 | An improved method to set significance thresholds for Î² diversity testing in microbial community comparisons. Environmental Microbiology, 2015, 17, 3154-3167. | 1.8 | 6 |
| 86 | EBP2R â€“ An innovative enhanced biological nutrient recovery activated sludge system to produce growth medium for green microalgae cultivation. Water Research, 2015, 68, 821-830. | 5.3 | 35 |
| 87 | Broad host range plasmids can invade an unexpectedly diverse fraction of a soil bacterial community. ISME Journal, 2015, 9, 934-945. | 4.4 | 330 |
| 88 | A novel control strategy for single-stage autotrophic nitrogen removal in SBR. Chemical Engineering Journal, 2015, 260, 64-73. | 6.6 | 11 |
| 89 | Spectrometric characterization of the effluent dissolved organic matter from an anammox reactor shows correlation between the EEM signature and anammox growth. Chemosphere, 2014, 117, 271-277. | 4.2 | 29 |
| 90 | Novel assay to measure the plasmid mobilizing potential of mixed microbial communities. Frontiers in Microbiology, 2014, 5, 730. | 1.5 | 27 |

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| 91 | Fine scale spatial variability of microbial pesticide degradation in soil: scales, controlling factors, and implications. Frontiers in Microbiology, 2014, 5, 667. | 1.5 | 41 |
| 92 | Protocol for Evaluating the Permissiveness of Bacterial Communities Toward Conjugal Plasmids by Quantification and Isolation of Transconjugants. Springer Protocols, 2014, , 275-288. | 0.1 | 19 |
| 93 | A Model Framework to Describe Growth-Linked Biodegradation of Trace-Level Pollutants in the Presence of Coincidental Carbon Substrates and Microbes. Environmental Science & Technology, 2014, 48, 13358-13366. | 4.6 | 19 |
| 94 | Colony morphology and transcriptome profiling of P seudomonas putida KT 2440 and its mutants deficient in alginate or all EPS synthesis under controlled matric potentials. MicrobiologyOpen, 2014, 3, 457-469. | 1.2 | 18 |
| 95 | Structure, composition, and strength of nitrifying membrane-aerated biofilms. Water Research, 2014, 57, 151-161. | 5.3 | 64 |
| 96 | Internal Porosity of Mineral Coating Supports Microbial Activity in Rapid Sand Filters for Groundwater Treatment. Applied and Environmental Microbiology, 2014, 80, 7010-7020. | 1.4 | 40 |
| 97 | Sequentially aerated membrane biofilm reactors for autotrophic nitrogen removal: microbial community composition and dynamics. Microbial Biotechnology, 2014, 7, 32-43. | 2.0 | 50 |
| 98 | Seasonal Arsenic Accumulation in Stream Sediments at a Groundwater Discharge Zone. Environmental Science & Technology, 2014, 48, 920-929. | 4.6 | 21 |
| 99 | Aeration Strategies To Mitigate Nitrous Oxide Emissions from Single-Stage Nitritation/Anammox Reactors. Environmental Science & Technology, 2014, 48, 8679-8687. | 4.6 | 69 |
| 100 | Longâ€term manure exposure increases soil bacterial community potential for plasmid uptake. Environmental Microbiology Reports, 2014, 6, 125-130. | 1.0 | 59 |
| 101 | Effects of dynamic operating conditions on nitrification in biological rapid sand filters for drinking water treatment. Water Research, 2014, 64, 226-236. | 5.3 | 71 |
| 102 | Does microbial centimeter-scale heterogeneity impact MCPA degradation in and leaching from a loamy agricultural soil?. Science of the Total Environment, 2014, 472, 90-98. | 3.9 | 26 |
| 103 | Seasonal and spatial variations in microbial activity at various phylogenetic resolutions at a groundwater â€“ surface water interface. Canadian Journal of Microbiology, 2014, 60, 277-286. | 0.8 | 1 |
| 104 | Reply to Comment on â€œModeling Nitrous Oxide Production during Biological Nitrogen Removal via Nitrification and Denitrification: Extensions to the General ASM Modelsâ€• Environmental Science & Technology, 2013, 47, 11910-11911. | 4.6 | 0 |
| 105 | A novel bench-scale column assay to investigate site-specific nitrification biokinetics in biological rapid sand filters. Water Research, 2013, 47, 6380-6387. | 5.3 | 19 |
| 106 | Model-based evaluation of the role of Anammox on nitric oxide and nitrous oxide productions in membrane aerated biofilm reactor. Journal of Membrane Science, 2013, 446, 332-340. | 4.1 | 51 |
| 107 | Critical assessment of extracellular polymeric substances extraction methods from mixed culture biomass. Water Research, 2013, 47, 5564-5574. | 5.3 | 116 |
| 108 | Microbial activity catalyzes oxygen transfer in membrane-aerated nitritating biofilm reactors. Journal of Membrane Science, 2013, 446, 465-471. | 4.1 | 45 |

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| 109 | Crystal ball â€“ 2013. Microbial Biotechnology, 2013, 6, 3-16. | 2.0 | 6 |
| 110 | Autotrophic Nitrogen Removal in a Membrane-Aerated Biofilm Reactor Under Continuous Aeration: A Demonstration. Environmental Engineering Science, 2013, 30, 38-45. | 0.8 | 48 |
| 111 | An operational protocol for facilitating start-up of single-stage autotrophic nitrogen-removing reactors based on process stoichiometry. Water Science and Technology, 2013, 68, 514-521. | 1.2 | 17 |
| 112 | Calibration and validation of a model describing complete autotrophic nitrogen removal in a granular <scp>SBR</scp> system. Journal of Chemical Technology and Biotechnology, 2013, 88, 2007-2015. | 1.6 | 12 |
| 113 | Neutrophilic iron-oxidizing bacteria: occurrence and relevance in biological drinking water treatment. Water Science and Technology: Water Supply, 2013, 13, 1295-1301. | 1.0 | 14 |
| 114 | Nitrous Oxide and Nitric Oxide Emissions From Single-Stage Nitritation/Anammox Reactors Under Varying Aeration Regimes. Proceedings of the Water Environment Federation, 2013, 2013, 6513-6518. | 0.0 | 0 |
| 115 | Control of a Biological Nitrogen Removal Process in an Intensified Single Reactor Configuration. Computer Aided Chemical Engineering, 2013, 32, 769-774. | 0.3 | 1 |
| 116 | Pseudomonad Swarming Motility Is Restricted to a Narrow Range of High Matric Water Potentials. Applied and Environmental Microbiology, 2012, 78, 2936-2940. | 1.4 | 13 |
| 117 | Transcriptome Dynamics of Pseudomonas putida KT2440 under Water Stress. Applied and Environmental Microbiology, 2012, 78, 676-683. | 1.4 | 40 |
| 118 | Evaluation on the microbial interactions of anaerobic ammonium oxidizers and heterotrophs in Anammox biofilm. Water Research, 2012, 46, 4645-4652. | 5.3 | 122 |
| 119 | Efficient Total Nitrogen Removal in an Ammonia Gas Biofilter through High-Rate OLAND. Environmental Science & Technology, 2012, 46, 8826-8833. | 4.6 | 20 |
| 120 | Effect of the kinetics of ammonium and nitrite oxidation on nitritation success or failure for different biofilm reactor geometries. Biochemical Engineering Journal, 2012, 69, 123-129. | 1.8 | 20 |
| 121 | Sensitivity analysis of autotrophic N removal by a granule based bioreactor: Influence of mass transfer versus microbial kinetics. Bioresource Technology, 2012, 123, 230-241. | 4.8 | 51 |
| 122 | Modeling Nitrous Oxide Production during Biological Nitrogen Removal via Nitrification and Denitrification: Extensions to the General ASM Models. Environmental Science & Technology, 2011, 45, 7768-7776. | 4.6 | 161 |
| 123 | Biological Nitrogen Removal from Domestic Wastewater. , 2011, , 329-340. | | 9 |
| 124 | iDynoMiCS: nextâ€generation individualâ€based modelling of biofilms. Environmental Microbiology, 2011, 13, 2416-2434. | 1.8 | 217 |
| 125 | Growth dependence of conjugation explains limited plasmid invasion in biofilms: an individualâ€based modelling study. Environmental Microbiology, 2011, 13, 2435-2452. | 1.8 | 57 |
| 126 | An individual-based approach to explain plasmid invasion in bacterial populations. FEMS Microbiology Ecology, 2011, 75, 17-27. | 1.3 | 64 |

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| 127 | Structure and activity of lacustrine sediment bacteria involved in nutrient and iron cycles. FEMS Microbiology Ecology, 2011, 77, 666-679. | 1.3 | 51 |
| 128 | Effects of PAH-Contaminated Soil on Rhizosphere Microbial Communities. Water, Air, and Soil Pollution, 2011, 222, 17-25. | 1.1 | 11 |
| 129 | Biological Nitrogen Removal From Domestic Wastewater. , 2011, , 285-296. | | 2 |
| 130 | A new extant respirometric assay to estimate intrinsic growth parameters applied to study plasmid metabolic burden. Biotechnology and Bioengineering, 2010, 105, 141-149. | 1.7 | 9 |
| 131 | Presence, distribution, and diversity of iron-oxidizing bacteria at a landfill leachate-impacted groundwater surface water interface. FEMS Microbiology Ecology, 2010, 71, 260-271. | 1.3 | 36 |
| 132 | TOL plasmid carriage enhances biofilm formation and increases extracellular DNA content in Pseudomonas putida KT2440. FEMS Microbiology Letters, 2010, 312, 84-92. | 0.7 | 36 |
| 133 | Shifts between Nitrospiraâ€•and Nitrobacterâ€like nitrite oxidizers underlie the response of soil potential nitrite oxidation to changes in tillage practices. Environmental Microbiology, 2010, 12, 315-326. | 1.8 | 214 |
| 134 | Inoculum effects on community composition and nitritation performance of autotrophic nitrifying biofilm reactors with counterâ€diffusion geometry. Environmental Microbiology, 2010, 12, 2858-2872. | 1.8 | 59 |
| 135 | Hydration-controlled bacterial motility and dispersal on surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14369-14372. | 3.3 | 182 |
| 136 | Novel Assay To Assess Permissiveness of a Soil Microbial Community toward Receipt of Mobile Genetic Elements. Applied and Environmental Microbiology, 2010, 76, 4813-4818. | 1.4 | 67 |
| 137 | Sequential Aeration of Membrane-Aerated Biofilm Reactors for High-Rate Autotrophic Nitrogen Removal: Experimental Demonstration. Environmental Science & Technology, 2010, 44, 7628-7634. | 4.6 | 109 |
| 138 | Evaluation of Bioaugmentation with Entrapped Degrading Cells as a Soil Remediation Technology. Environmental Science & Technology, 2010, 44, 7622-7627. | 4.6 | 21 |
| 139 | Biodegradation in a Partially Saturated Sand Matrix: Compounding Effects of Water Content, Bacterial Spatial Distribution, and Motility. Environmental Science & Technology, 2010, 44, 2386-2392. | 4.6 | 48 |
| 140 | The Pressurized Porous Surface Model: An improved tool to study bacterial behavior under a wide range of environmentally relevant matric potentials. Journal of Microbiological Methods, 2010, 82, 324-326. | 0.7 | 8 |
| 141 | Nitritation performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. Water Research, 2010, 44, 6073-6084. | 5.3 | 70 |
| 142 | Effective Biological Nitrogen Removal Treatment Processes for Domestic Wastewaters with Low C/N Ratios: A Review. Environmental Engineering Science, 2010, 27, 111-126. | 0.8 | 184 |
| 143 | Aggregate Size and Architecture Determine Microbial Activity Balance for One-Stage Partial Nitritation and Anammox. Applied and Environmental Microbiology, 2010, 76, 900-909. | 1.4 | 318 |
| 144 | Oxygen Transfer Model for a Flow-Through Hollow-Fiber Membrane Biofilm Reactor. Journal of Environmental Engineering, ASCE, 2009, 135, 806-814. | 0.7 | 23 |

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| 145 | The effect of hydroxylamine on the activity and aggregate structure of autotrophic nitrifying bioreactor cultures. Biotechnology and Bioengineering, 2009, 102, 714-724. | 1.7 | 37 |
| 146 | Nitrogen Removal from Digested Black Water by One-Stage Partial Nitritation and Anammox. Environmental Science & Technology, 2009, 43, 5035-5041. | 4.6 | 160 |
| 147 | Nitritation performance and biofilm development of co- and counter-diffusion biofilm reactors: Modeling and experimental comparison. Water Research, 2009, 43, 2699-2709. | 5.3 | 51 |
| 148 | Enhancing the formation and shear resistance of nitrifying biofilms on membranes by surface modification. Water Research, 2009, 43, 3469-3478. | 5.3 | 60 |
| 149 | Mass Action Models Describing Extant Horizontal Transfer of Plasmids: Inferences and Parameter Sensitivities. Methods in Molecular Biology, 2009, 532, 289-305. | 0.4 | 2 |
| 150 | A critical comparison of extant batch respirometric and substrate depletion assays for estimation of nitrification biokinetics. Biotechnology and Bioengineering, 2008, 101, 62-72. | 1.7 | 19 |
| 151 | Limited diffusive fluxes of substrate facilitate coexistence of two competing bacterial strains. FEMS Microbiology Ecology, 2008, 64, 1-8. | 1.3 | 44 |
| 152 | An improved cell recovery method for iron oxidizing bacterial (IOB) enrichments. Journal of Microbiological Methods, 2008, 72, 235-240. | 0.7 | 5 |
| 153 | Heterotrophic activity compromises autotrophic nitrogen removal in membrane-aerated biofilms: Results of a modeling study. Water Research, 2008, 42, 1102-1112. | 5.3 | 175 |
| 154 | Effects of heat-activated persulfate oxidation on soil microorganisms. Water Research, 2008, 42, 1013-1022. | 5.3 | 129 |
| 155 | Antecedent Growth Conditions Alter Retention of Environmental Escherichia coli Isolates in Transiently Wetted Porous Media. Environmental Science & Technology, 2008, 42, 9310-9316. | 4.6 | 9 |
| 156 | The Porous Surface Model, a Novel Experimental System for Online Quantitative Observation of Microbial Processes under Unsaturated Conditions. Applied and Environmental Microbiology, 2008, 74, 5195-5200. | 1.4 | 48 |
| 157 | Model Prediction of Completely Autotrophic Nitrogen Removal under Different Reactor Configurations. Proceedings of the Water Environment Federation, 2008, 2008, 3082-3100. | 0.0 | 0 |
| 158 | Population Dynamics of Aerobic and Anaerobic Ammonia Oxidizers in an Autotrophic Nitrogen Removal Membrane Biofilm Reactor. Proceedings of the Water Environment Federation, 2008, 2008, 3209-3220. | 0.0 | 0 |
| 159 | Controlling Gaseous Nitrogen Oxide Emissions and Nitrogen Removal Performance in Hollow Fiber Membrane-Aerated Biofilm Reactors. Proceedings of the Water Environment Federation, 2008, 2008, 327-342. | 0.0 | 0 |
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