# Michael D Aitken

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 44 papers | 2,009 citations | 201674 27 h-index | 243625 44 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 2440 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Salicylate Stimulates the Degradation of High-Molecular Weight Polycyclic Aromatic Hydrocarbons byPseudomonas saccharophilaP15. Environmental Science & Technology, 1999, 33, 435-439. | 10.0 | 194 |
| 2 | From Bioavailability Science to Regulation of Organic Chemicals. Environmental Science & Technology, 2015, 49, 10255-10264. | 10.0 | 171 |
| 3 | Products from the Incomplete Metabolism of Pyrene by Polycyclic Aromatic Hydrocarbon-Degrading Bacteria. Applied and Environmental Microbiology, 2000, 66, 1917-1922. | 3.1 | 151 |
| 4 | Identification and quantification of uncultivated Proteobacteria associated with pyrene degradation in a bioreactor treating PAH-contaminated soil. Environmental Microbiology, 2006, 8, 1736-1745. | 3.8 | 114 |
| 5 | Aerobic Bioremediation of PAH Contaminated Soil Results in Increased Genotoxicity and Developmental Toxicity. Environmental Science & Technology, 2015, 49, 13889-13898. | 10.0 | 87 |
| 6 | Algiphilus aromaticivorans gen. nov., sp. nov., an aromatic hydrocarbon-degrading bacterium isolated from a culture of the marine dinoflagellate Lingulodinium polyedrum, and proposal of Algiphilaceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 2743-2749. | 1.7 | 70 |
| 7 | Identification of Anthraquinone-Degrading Bacteria in Soil Contaminated with Polycyclic Aromatic Hydrocarbons. Applied and Environmental Microbiology, 2015, 81, 3775-3781. | 3.1 | 68 |
| 8 | Response of the bacterial community associated with a cosmopolitan marine diatom to crude oil shows a preference for the biodegradation of aromatic hydrocarbons. Environmental Microbiology, 2016, 18, 1817-1833. | 3.8 | 68 |
| 9 | Fluoranthene-2,3- and -1,5-diones Are Novel Products from the Bacterial Transformation of Fluoranthene. Environmental Science & Technology, 2001, 35, 917-922. | 10.0 | 64 |
| 10 | Description of Immundisolibacter cernigliae gen. nov., sp. nov., a high-molecular-weight polycyclic aromatic hydrocarbon-degrading bacterium within the class Gammaproteobacteria, and proposal of Immundisolibacterales ord. nov. and Immundisolibacteraceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 925-931. | 1.7 | 59 |
| 11 | Screening Nonionic Surfactants for Enhanced Biodegradation of Polycyclic Aromatic Hydrocarbons Remaining in Soil After Conventional Biological Treatment. Environmental Science & Technology, 2016, 50, 3838-3845. | 10.0 | 58 |
| 12 | Evaluating the Effects of Bioremediation on Genotoxicity of Polycyclic Aromatic Hydrocarbon-Contaminated Soil Using Genetically Engineered, Higher Eukaryotic Cell Lines. Environmental Science & Technology, 2012, 46, 4607-4613. | 10.0 | 57 |
| 13 | Surfactant-induced bacterial community changes correlated with increased polycyclic aromatic hydrocarbon degradation in contaminated soil. Applied Microbiology and Biotechnology, 2016, 100, 10165-10177. | 3.6 | 54 |
| 14 | Effect of Incubation Conditions on the Enrichment of Pyrene-degrading Bacteria Identified by Stable-isotope Probing in an Aged, PAH-contaminated Soil. Microbial Ecology, 2008, 56, 341-349. | 2.8 | 50 |
| 15 | Turnover Capacity of Coprinus cinereus Peroxidase for Phenol and Monosubstituted Phenols. Biotechnology Progress, 1998, 14, 487-492. | 2.6 | 49 |
| 16 | Identification of polar transformation products and high molecular weight polycyclic aromatic hydrocarbons (PAHs) in contaminated soil following bioremediation. Science of the Total Environment, 2017, 599-600, 1099-1107. | 8.0 | 44 |
| 17 | Inactivation ofAscaris suumand Poliovirus in Biosolids under Thermophilic Anaerobic Digestion Conditions. Environmental Science & Technology, 2005, 39, 5804-5809. | 10.0 | 42 |
| 18 | Polyphasic characterization of four soil-derived phenanthrene-degrading Acidovorax strains and proposal of Acidovorax carolinensis sp. nov.. Systematic and Applied Microbiology, 2018, 41, 460-472. | 2.8 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | DNA-based stable isotope probing coupled with cultivation methods implicates Methylophaga in hydrocarbon degradation. Frontiers in Microbiology, 2014, 5, 76. | 3.5 | 38 |
| 20 | Inactivation of Escherichia coli O157:H7 during thermophilic anaerobic digestion of manure from dairy cattle. Water Research, 2007, 41, 1659-1666. | 11.3 | 36 |
| 21 | Association of Growth Substrates and Bacterial Genera with Benzo[a]pyrene Mineralization in Contaminated Soil. Environmental Engineering Science, 2014, 31, 689-697. | 1.6 | 35 |
| 22 | Rugosibacter aromaticivorans gen. nov., sp. nov., a bacterium within the family Rhodocyclaceae, isolated from contaminated soil, capable of degrading aromatic compounds. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 311-318. | 1.7 | 35 |
| 23 | Nontarget Analysis Reveals a Bacterial Metabolite of Pyrene Implicated in the Genotoxicity of Contaminated Soil after Bioremediation. Environmental Science & Technology, 2017, 51, 7091-7100. | 10.0 | 34 |
| 24 | Tracing the Biotransformation of Polycyclic Aromatic Hydrocarbons in Contaminated Soil Using Stable Isotope-Assisted Metabolomics. Environmental Science and Technology Letters, 2018, 5, 103-109. | 8.7 | 34 |
| 25 | Role of methylotrophs in the degradation of hydrocarbons during the Deepwater Horizon oil spill. ISME Journal, 2014, 8, 2543-2545. | 9.8 | 33 |
| 26 | Laboratory Evaluation of Thermophilic-Anaerobic Digestion to Produce Class A Biosolids. 2. Inactivation of Pathogens and Indicator Organisms in a Continuous-Flow Reactor Followed by Batch Treatment. Water Environment Research, 2005, 77, 3028-3036. | 2.7 | 30 |
| 27 | Cultivation-dependent and cultivation-independent characterization of hydrocarbon-degrading bacteria in Guaymas Basin sediments. Frontiers in Microbiology, 2015, 6, 695. | 3.5 | 29 |
| 28 | Bioavailability of (Geno)toxic Contaminants in Polycyclic Aromatic Hydrocarbonâ€“Contaminated Soil Before and After Biological Treatment. Environmental Engineering Science, 2014, 31, 176-182. | 1.6 | 28 |
| 29 | Laboratory Evaluation of Thermophilic-Anaerobic Digestion to Produce Class A Biosolids. 1. Stabilization Performance of a Continuous-Flow Reactor at Low Residence Time. Water Environment Research, 2005, 77, 3019-3027. | 2.7 | 24 |
| 30 | Enrichment of Fusobacteria in Sea Surface Oil Slicks from the Deepwater Horizon Oil Spill. Microorganisms, 2016, 4, 24. | 3.6 | 23 |
| 31 | Mutagenicity screening of reaction products from the enzymeâ€catalyzed oxidation of phenolic pollutants. Environmental Toxicology and Chemistry, 1994, 13, 1743-1752. | 4.3 | 22 |
| 32 | A material-balance approach for modeling bacterial chemotaxis to a consumable substrate in the capillary assay. Biotechnology and Bioengineering, 2000, 68, 308-315. | 3.3 | 22 |
| 33 | Complete Genome Sequence of a Novel Bacterium within the Family Rhodocyclaceae That Degrades Polycyclic Aromatic Hydrocarbons. Genome Announcements, 2015, 3, . | 0.8 | 21 |
| 34 | Improving Polycyclic Aromatic Hydrocarbon Biodegradation in Contaminated Soil Through Low-Level Surfactant Addition After Conventional Bioremediation. Environmental Engineering Science, 2016, 33, 659-670. | 1.6 | 21 |
| 35 | Diversity and Abundance of High-Molecular-Weight Azaarenes in PAH-Contaminated Environmental Samples. Environmental Science & Technology, 2017, 51, 14047-14054. | 10.0 | 21 |
| 36 | Complete Genome Sequence of a Bacterium Representing a Deep Uncultivated Lineage within the Gammaproteobacteria Associated with the Degradation of Polycyclic Aromatic Hydrocarbons. Genome Announcements, 2016, 4, . | 0.8 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Production and characterisation of a marine Halomonas surface-active exopolymer. Applied Microbiology and Biotechnology, 2020, 104, 1063-1076. | 3.6 | 16 |
| 38 | Using Environmental Simulations to Test the Release of Hazardous Substances from Polymer-Based Products: Are Realism and Pragmatism Mutually Exclusive Objectives?. Materials, 2020, 13, 2709. | 2.9 | 11 |
| 39 | Biological Treatment of Wastewater from Nitrosophenol Production. Journal of Environmental Engineering, ASCE, 1993, 119, 871-889. | 1.4 | 9 |
| 40 | Coupling Nitrogen Removal and Anaerobic Digestion for Energy Recovery from Swine Waste Through Nitrification/Denitrification. Environmental Engineering Science, 2015, 32, 741-749. | 1.6 | 7 |
| 41 | Coupling Nitrogen Removal and Anaerobic Digestion for Energy Recovery from Swine Waste: 2 Nitritation/Anammox. Environmental Engineering Science, 2015, 32, 750-760. | 1.6 | 6 |
| 42 | Isomer-selective biodegradation of high-molecular-weight azaarenes in PAH-contaminated environmental samples. Science of the Total Environment, 2020, 707, 135503. | 8.0 | 6 |
| 43 | Identifying bioaugmentation candidates for bioremediation of polycyclic aromatic hydrocarbons in contaminated estuarine sediment of the Elizabeth River, VA, USA. Applied Microbiology and Biotechnology, 2022, , 1. | 3.6 | 4 |
| 44 | â€œClinicalâ€•and Evidence-Based Environmental Science and Engineering. Environmental Science & Technology, 2011, 45, 368-369. | 10.0 | 0 |