

2007 水環境制御研究室 研究業績一覧

○ 学術雑誌論文/Peer-reviewed papers

* 英文雑誌

- (1) Rupak Kumar Aryal, Hiroaki Furumai, and Fumiyuki Nakajima, and Jinadasa H.K.P.K. (2007) The role of inter-event time definition and recovery of initial/depression loss for the accuracy in quantitative simulations of highway runoff, *Urban Water Journal*, Vol.4, No.1, pp.53-58.
- (2) Rupak Kumar Aryal, Hiroaki Furumai, and Mohammed Abed Hossain (2007) Vertical distribution and speciation of heavy metals in stormwater infiltration facilities: possible heavy metals release to groundwater, *Water Practice & Technology*, Vol.2, No.2 (on-line journal;<http://www.iwaponline.com/wpt/002/wpt0020052.htm>)
- (3) Michio Murakami, Fumiyuki Nakajima, Hiroaki Furumai, Bunbunoshin Tomiyasu, and Masanori Owari (2007) Identification of particles containing chromium and lead in road dust and soakaway sediment by electron probe microanalyser, *Chemosphere*, Vol.67, No.10, pp.2000-2010.
- (4) Akihiro Nagaiwa, Katsushi Settsu, Fumiyuki Nakajima and Hiroaki Furumai (2007) Identification of sewer pipes to be cleaned for reduction of CSO pollutant load, *Water Science & Technology*, Vol.55, No.4, pp.75-83.
- (5) Limpiyakorn T., Sakamoto Y., Kurisu F. and Yagi O. (2007) Effects of ammonia and nitrite on communities and populations of ammonia-oxidizing bacteria in laboratory-scale continuous-flow reactors, *FEMS Microbiology Ecology*, Vol.60, No.3, pp.501-512.
- (6) Shoko Iwai, Futoshi Kurisu, Hidetoshi Urakawa, Osami Yagi, and Hiroaki Furumai (2007) Development of a 60-mer oligonucleotide microarray on the basis of benzene monooxygenase gene diversity, *Applied Microbiology and Biotechnology*, Vol.75, No.4, pp.929-939.
- (7) Ikuro Kasuga, Dai Shimazaki, and Shoichi Kunikane (2007) Influence of backwashing on microbial community in biofilm developed on biological activated carbon in an advanced drinking water purification plant, *Water Science & Technology*, Vol.55, No.8-9, pp.173-180.
- (8) Ikuro Kasuga, Fumiyuki Nakajima, and Hiroaki Furumai (2007) Diversity of Catechol 2,3-Dioxygenase Genes of Bacteria Responding to Dissolved Organic Matter Derived from Different Sources in a Eutrophic Lake, *FEMS Microbiology Ecology*, Vol.61, No.3, pp.449-458.
- (9) Mohammed Abed Hossain, Hiroaki Furumai, Fumiyuki Nakajima, and Rupak Kumar Aryal (2007) Heavy metals speciation in sediment accumulated within an infiltration facility and evaluation of metal retention properties of underlying soil, *Water Science & Technology*, Vol.56, No.11, pp.81-89.

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- (1) 藤田昌史, 辻幸志, 和田真澄, 古米弘明(2007)外乱応答実験を利用した生物学的リン除去プロセスを組み込んだASM3のキャリブレーション, *用水と廃水*, Vol.49, No.3, pp.50-58.
- (2) 小松俊哉, 真部良章, 姫野修司, 原田新, 村上道夫, 古米弘明(2007)全国河川水の変異原性生成能の分布および一般水質項目・河川特性との関連性, *水環境学会誌*, Vol.30, No.8, pp.433-440.
- (3) 長岩明弘, 古米弘明, 中島典之, 斗成聡一(2007)上流管路の水質を時系列入力情報とした合流改善

のためのオンライン負荷量予測モデルの検討, 用水と廃水, Vol.49, No.6, pp.487-494.

- (4) 辻幸志, 藤田昌史, 金元載, 真名垣聡, 中島典之, 古米弘明(2007)晴天時に住宅地域から排出された生活廃水中のLASの動態, 水環境学会誌, Vol.30, No.10, pp.579-583.

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- (1) Shoko Iwai, Futoshi Kurisu, Hidetoshi Urakawa, Ikuro Kasuga, Osami Yagi, and Hiroaki Furumai (2007) An oligonucleotide microarray for analysis of benzene oxygenase genes in soils, The 107th Genral Meeting of American Society for Microbiology, Q-362, p.184. (May, Toronto, Canada) [Poster]
- (2) Mohammed Abed Hossain, Hiroaki Furumai, Fumiyuki Nakajima, and Rupak K. Aryal (2007) Heavy metals speciation in sediment accumulated within an infiltration facility and evaluation of metal retention properties of underlying soil, Proceedings of NOVATECH 2007, pp.827-834. (June, Lyon, France) [Oral]
- (3) Akihiro Nagaiwa, Hiroaki Furumai, Fumiyuki Nakajima, and Souichi Tonari (2007) Pollutant load prediction for RTC by system identification model using time-series monitored data, Proceedings of NOVATECH 2007, pp.785-792. (June, Lyon, France) [Oral]
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- (5) Mohammed Abed Hossain, Hiroaki Furumai, Fumiyuki Nakajima (2007) Competitive adsorption of heavy metals in soil underlying an infiltration facility installed in urban area, 2nd IWA - ASPIRE Asia-Pacific Regional Group Conference & Exhibition, file name in Conference CD: P031.pdf. (Oct, Perth, Australia) [Poster]
- (6) G.G.Tushara Chaminda, Fumiyuki Nakajima, Hiroaki Furumai (2007) Heavy metal (Zn and Cu) complexation and molecular size distribution in wastewater treatment plant effluent, 2nd IWA - ASPIRE Asia-Pacific Regional Group Conference & Exhibition, file name in Conference CD: 015.pdf. (Oct, Perth, Australia) [Oral]
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- (8) Rupak Kumar Aryal, Hiroaki Furumai, Fumiyuki Nakajima, and Mohammed Abed Hossain (2007) Possible threat of groundwater contamination due to prolonged deposition of sediment in infiltration facilities in Tokyo, Proc. 2nd International Workshop on Rainwater and Reclaimed Water for Urban Sustainable Water Use, pp.31-43. (Oct, Kyoto, Japan) [Oral]
- (9) Hiroaki Furumaim and Fumiyuki Nakajima (2007) Behavior of urban non-point pollutants and rainwater infiltration, Proc. 2nd International Workshop on Rainwater and Reclaimed Water for Urban Sustainable Water Use, pp.7-20. (Oct, Kyoto, Japan) [Oral]
- (10) Zang Kaisai, Futoshi Kurisu, Ikuro Kasuga, and Hiroaki Furumai (2007) In situ phylogenetic identification of estrone-degrading bacteria in activated sludge, Proc. 2nd International Workshop on Rainwater and Reclaimed Water for Urban Sustainable Water Use. (Oct, Kyoto, Japan) [Poster]
- (11) Futoshi Kurisu, Seigen Kawashima, Ikuro Kasuga, and Hiroaki Furumai (2007) Analysis of Urban

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- (1) 藤田誠, 村上道夫, 春日郁朗, 栗栖太, 古米弘明(2007)雨水浸透柵における道路排水中の形態別重金属の吸脱着特性の解析, 第41回日本水環境学会年会講演集, p.9. (3.15-17, 大阪) [口頭]
- (2) 高橋亮介, 栗栖太, 春日郁朗, 古米弘明, 岩井祥子, 矢木修身(2007)16S-23S rDNA スペーサー領域を用いた *Janibacter terrae* 近縁株の特異的検出とダイオキシン類分解能の評価, 第41回日本水環境学会年会講演集, p.50. (3.15-17, 大阪) [口頭]
- (3) 岩井祥子, 栗栖太, 浦川秀敏, 春日郁朗, 矢木修身, 古米弘明(2007)マイクロアレイによる土壌中ベンゼン酸化分解遺伝子の網羅的検出, 第41回日本水環境学会年会講演集, p.54. (3.15-17, 大阪) [口頭]
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- (5) 和田健男, 栗栖太, 春日郁朗, 矢木修身, 古米弘明(2007)クロロエチレン類脱塩素化集積培養系の脱塩素化活性に及ぼす酸化還元電位の影響, 第41回日本水環境学会年会講演集, p.165. (3.15-17, 大阪) [口頭]
- (6) 細見暁彦, 春日郁朗, 栗栖太, 古米弘明(2007)多摩川における微細有機物の動態に及ぼす下水処理水流入及び河川構造物の影響, 第41回日本水環境学会年会講演集, p.346. (3.15-17, 大阪) [口頭]
- (7) 真名垣聡, 金元載, 古米弘明, 高田秀重, 中島典之(2007)人の排泄行動を考慮した生下水中における抗生物質の24時間変動の特性評価, 第41回水環境学会年会講演集, p.392. (3.15-17, 大阪) [口頭]
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- (9) 毛利紫乃, 原田新, 佐藤修之, 小松俊哉, 田中宏明, 小野芳朗, 古米弘明(2007)都市水資源の合理的利用のための水質リスクの新規評価手法, 第41回日本水環境学会年会講演集, p.414. (3.15-17, 大阪) [口頭]
- (10) 藤田昌史, 辻幸志, 古米弘明(2007)都市下水に洗濯洗剤を強制添加して連続運転した嫌気好気活性汚泥のリン放出活性の変化, 第41回日本水環境学会年会講演集, p.444. (3.15-17, 大阪) [口頭]
- (11) 辻幸志, 藤田昌史, 古米弘明(2007.3)嫌気条件下においてLASとAEから生成した酢酸のリン放出への寄与, 第41回日本水環境学会年会講演集, p.445. (3.15-17, 大阪) [口頭]
- (12) Zang Kaisai., Futoshi Kurisu, Ikuro Kasuga, and Hiroaki Furumai, and Osami Yagi (2007) Investigation of estrone uptake patterns of microbial communities in activated sludge by microautoradiography-fluorescent in situ hybridization, Proceedings of JSWE 41, p.465. (15-17 Mar, Osaka, Japan) [Oral]
- (13) 春日郁朗, 島崎大, 国包章一(2007)培養法と分子生物学的手法による生物活性炭槽内の従属栄養細菌の評価, 第58回全国水道研究発表会講演集, p.614-615. (5.23-26, 釧路) [口頭]
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- (15) 長岩明弘, 古米弘明, 中島典之, 斗成聡一(2007)合流式下水道雨天時越流負荷制御のためのオンライン流量予測モデルの精緻化, 第44回下水道研究発表会講演集, pp.277-279. (7.24-26, 東京) [口頭]
- (16) 金元載, 真名垣聡, 古米弘明, 中島典之(2007)晴天時合流式下水水質の時間変動特性を考慮したCSO汚濁負荷量の評価, 第44回下水道研究発表会講演集, pp.286-288.(7.24-26, 東京) [口頭]

- (17) Zang Kaisai, Futoshi Kurisu, Ikuro Kasuga, and Hiroaki Furumai (2007) In situ identification of estrone-degrading microorganisms belonging to Betaproteobacteria in activated sludge, 第 23 回日本微生物生態学会講演要旨集, p.73. (9.15-18, 松山) [口頭]
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