
Fate of *Enterococcus faecalis* in stormwater matrices under ultraviolet-A (365 nm) irradiation

Amit Kumar, Daphne Ng and Bin Cao*

Sunlight UVA (365 nm) irradiation induced a transition of *Enterococcus faecalis* in stormwater to a viable but non-culturable (VBNC) state.

Biofilm bacterial community transition under water supply quality changes in drinking water distribution systems

Xu Ma, Guangming Zhang,* Guiwei Li, Yunjie Wan, Huifang Sun, Haibo Wang and Baoyou Shi*

Water supply quality changes can cause significant biofilm bacterial community transformation in old iron drinking water distribution pipes.

Dissolved oxygen control strategies for the industrial sequencing batch reactor of the wastewater treatment process in the papermaking industry

Yi Man, Wenhao Shen,* Xiaoquan Chen, Zhou Long and Jean-Pierre Corriou

The fuzzy-PID dissolved oxygen control strategy is superior in control performance, energy consumption, and anti-interference for the SBR process of papermaking mills.

Role of tertiary amines in enhancing trihalomethane and haloacetic acid formation during chlorination of aromatic compounds and a natural organic matter extract

Kun Huang and Amisha D. Shah*

Tertiary amines are prevalent in waters due to anthropogenic inputs and are known to enhance organic compound degradation while increasing disinfection by-product (DBP) formation, *via* the strong chlorinating agent, R_3N-Cl^+

Gradient reduced aeration in an enhanced aerobic granular sludge process optimizes the dominant microbial community and its function

Zhiming Zhang, Zhuodong Yu, Liang Zhu,* Haitian Yu, Xin Dai, Xiangyang Xu and Pedro J. J. Alvarez

Gradient reduced aeration leads to stable granules and a significant reduction of energy consumption.

Synthesis and application of a highly selective molecularly imprinted adsorbent based on multi-walled carbon nanotubes for selective removal of perfluorooctanoic acid

Fengmei Cao, Lei Wang, Yiming Yao, Fengchang Wu, Hongwen Sun* and Shaoyong Lu*

Prepared MWCNTs@MIPs allowed for rapid separation and selective enrichment of PFOA from an aqueous environment.

Coagulation of colloidal particles with ferrate(vi)

Dongyu Lv, Lei Zheng, Huiqin Zhang and Yang Deng*

Coagulation and chemical oxidation have long been recognized as two major mechanisms of ferrate(vi) (i.e. FeO_4^{2-} , an oxyanion containing Fe(vi)) in its environmental applications.

Kenaf addition has mixed effects on process performance of sequencing batch reactors treating municipal wastewater

Forrest James Hurley, Xia He, Ling Wang and Francis L. de los Reyes III*

The effects on wastewater treatment due to addition to the mixed liquor of a fine lignocellulosic powder made of dried kenaf were assessed using lab-scale sequencing batch reactors (SBRs) operated for over 200 days.

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High-throughput microrespirometric characterization of activated sludge inhibition by silver nanoparticles

Gabriel R. Hernández-Martínez, Alejandro Zepeda,*
Alberto Ordaz, Luis A. Sánchez-Catzin,
Zaira D. Estrada-Díaz and Frederic Thalasso

This study present for first time the application of microrespirometric method to evaluate the effect of nanomaterial on biological process.

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Characterization of ultraviolet-quenching dissolved organic matter (DOM) in mature and young leachates before and after biological pre-treatment

Renzun Zhao, Chanil Jung, Alicja Trzopek, Kevin Torrens and Yang Deng*

The discharge of municipal landfill leachate into publicly owned treatment works (POTWs) is a common leachate management practice in the United States.

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Biological leaching of metal contaminated substrates from a passive bioreactor treating mine drainage

M. T. Bailey

A proof of concept study is presented, using acid mine drainage (AMD) to leach metals (Zn, Cd, Ni, Mn, Fe, Pb, Cu) from a passive treatment system substrate.

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Correction: Emerging investigators series: comparing the inherent reactivity of often-overlooked aqueous chlorinating and brominating agents toward salicylic acid

Matthew A. Broadwater, Tyler L. Swanson and John D. Sivey*