國立中山大學

新興污染物研究中心

Center for Emerging Contaminants Research, NSYSU

Newsletter

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♣ 本校新興污染物研究中心舉辦之年度學術研討會『2014（第 4 屆）新興污染物論壇』（**emcon forum 2014**）訂於 2014 年 10 月 17 日（星期五）在國立中山大學圖書與資訊大樓 B1 視訊研討室舉辦，歡迎國內產/官/學/研各界先進能共襄盛舉， 踴躍投稿及報名參加（早鳥註冊/報名費優惠截止日期：2014 年 8 月 31 日），詳細資訊請參見網址： http://www2.nsysu.edu.tw/cecr/2014%20conference.htm。

♣ 2014-7-31 國際著名之 SCI 學術期刊 Journal of Hazardous Materials 第 277 卷已經於正式出版一關於新興污染物之特刊/專輯 ，標題爲“Global Challenges of Emerging Contaminants: Environmental, Health, and Safety Issues” (楊金鐘教授 客座主編)，內容包括序言及 21 篇發表於 The 1st International Conference on Emerging Contaminants（**emcon forum 2013** ；第 1 屆新興污染物國際研討會； 2013 年 10 月 13-15 日，高雄市）之論文，詳細資訊提供如下：

序言: Preface (Yang) ;

主題 1. Advances in analytical, characterization, and monitoring methods: (1) Development and validation of TOF-SIMS and CLSM imaging method for cytotoxicity study of ZnO nanoparticles in HaCaT cells (Lee et al.); (2) Monitoring of xenobiotic ligands for human estrogen receptor and aryl hydrocarbon receptor in industrial wastewater effluents (Chou et al.); (3) Evaluating the antibacterial property of gold-coated hydroxyapatite: a molecular biological approach (Huang et al.);

主題 2. Fate, transport, and transformation: (1) Use of fluorescence quenching method to measure sorption constants of phenolic xenoestrogens onto humic fractions from sediment (Yeh et al.); (2) Prevalence of sulfonamide-resistant bacteria, resistance genes and integron-associated horizontal gene transfer in natural water bodies and soils adjacent to a swine feedlot in northern Taiwan (Hsu et al.);

主題 3. Occurrence in groundwater and drinking water: Monitoring and removal of residual phthalate esters and pharmaceuticals in the drinking water of Kaohsiung City, Taiwan (Yang et al.);

主題 4. Advancement in removal and treatment technologies: (1) Estrogen degradation and sorption colloids in a constructed wetland with different hydraulic retention times (Chen et al.); (2) Seasonal variation in the occurrence and removal of pharmaceuticals and personal care products in a wastewater treatment (Sun et al.); (3) The transformation of hexabromocyclododecane using zerovalent iron nanoparticle aggregates (Tso and Shih); (4) Cu–TiO_2 nanorods with enhanced ultraviolet- and visible-light photoactivity for bisphenol A degradation (Chiang and Doong); (5) Removals of phenolic compounds and phthalic acid esters in landfill leachate by microbial sludge of two-stage membrane bioreactor (Boonnorat et al.); (6) Effect of silica fouling on the removal of pharmaceuticals and personal care products by nanofiltration and reverse osmosis membranes (Lin et al.); (7) Effective anodic oxidation of naproxen by platinum nanoparticles coated FTO glass (Chin et al.); (8) Adsorption of indium(III) ions from aqueous solution using chitosan-coated bentonite beads (Calagui et al.);

主題 5. Emerging contaminants in vertebrate and invertebrate populations: (1) Bioaccumulation of persistent organic pollutants in stranded cetaceans from Taiwan coastal waters (Ko et al.); (2) Zinc oxide nanoparticles alter hatching and larval locomotor activity in zebrafish (*Danio rerio*) (Chen et al.); (3) Persistent endocrine disruption effects in medaka fish with early life-stage exposure to a triazole-containing aromatase inhibitor (letrozole) (Liao et al.); (4) Two azole fungicides (carcinogenic triadimefon and non-carcinogenic myclobutanil) exhibit different hepatic cytochrome P450 activities in medaka fish (Lin et al.);

主題 6. Other relevant issues: (1) An investigation of total bacterial communities, culturable antibiotic-resistant bacterial communities and integrons in the river water environments of Taipei city (Yang et al.); (2) Monitoring of PAEMs and beta-agonists in urine for a small group of experimental subjects and PAEs and beta-agonists in drinking water consumed by the same subjects (Liou et al.)。

Publisher: Gordon C. C. Yang (楊金鐘)
Phone: +886 7 5252000 ext. 4407
Email: gordon@mail.nsysu.edu.tw