

2nd International Conference on Environmental Science and Technology 2006
August 19-22, 2006 • Greenspoint Wyndham Hotel • Houston, USA

Conference Schedule

	18-August	19-August	20-August	21-August	22-August
Morning 8:00a.m. - 12:35p.m.	Registration	Plenary Meeting	Platform Sessions 5 Groups	Platform Sessions 5 Groups	Platform Sessions 5 Groups
Afternoon 2:00p.m. - 6:05p.m.	Exhibition Noon- 8:30p.m.	Platform Sessions 5 Groups	Platform Sessions 5 Groups	Free	Platform Sessions 5 Groups
Evening 7:00p.m. - 9:00p.m.		Poster Session I Light Reception	Poster Session II Light Reception	Dinner	
7:30a.m. - 9:30p.m.	Registration Exhibition	Registration Exhibition	Registration Exhibition	Registration Exhibition	Registration Exhibition

Presentation at a Glance

Saturday, August 19			
Room I	2:00pm-4:05pm	Session 01-01	Rivers, Lakes and Estuary Systems
Room I	4:30pm-6:05pm	Session 01-02	Water Resources and Watershed Management
Room II	2:00pm-4:05pm	Session 01-6	Drinking Water Purification
Room II	4:30pm-6:05pm	Session 01-7	Drinking Water Pretreatment and Protection
Room III	2:00pm-4:05pm	Session 10-1	Degradation of Organic Pollutants
Room III	4:30pm-6:05pm	Session 10-2	Transport and Remediation
Room IV	2:00pm-4:05pm	Session 03-1	Permeable Reactive Barriers
Room IV	4:30pm-6:05pm	Session 03-2	Natural Attenuation of Contaminants
Room V	2:00pm-4:05pm	Session 04-1	Restoration of Ecosystems
Room V	4:30pm-6:05pm	Session 04-2	Ecosystem Assessment
Poster Room	7:00pm-9:00pm	Poster Session I	Sessions 01-01~01-08, 02-1~02-3, 03-1~03-3, 04, 11, 12, 13, 14, 15
Sunday, August 20			
Room I	8:00am-10:05am	Session 01-03	Non-point Sources
Room I	10:30am-12:35pm	Session 01-04	Groundwater
Room I	2:00pm-4:05pm	Session 01-05	Wastewater Discharge Management
Room I	4:30pm-6:05pm	Session 11-01	Environmental Simulation
Room II	8:00am-10:05am	Session 01-08	Photocatalytic Water Decontamination
Room II	10:30am-12:35pm	Session 01-13	Municipal Wastewater Biotreatment
Room II	2:00pm-4:05pm	Session 01-10	Nitrogen Wastewater Biotreatment
Room II	4:30pm-6:05pm	Session 01-11	Sludge Treatment
Room III	8:00am-10:05am	Session 06-1/06-2	Conservation of Wetlands/ Wetlands for Wastewater Treatment
Room III	10:30am-12:35pm	Session 02-2	Air Quality Assessment
Room III	2:00pm-4:05pm	Session 02-1	Aerosol
Room III	4:30pm-6:05pm	Session 02-3	Transport of Air Pollutants
Room IV	8:00am-10:05am	Session 03-3	In-Situ Remediation and Solid Waste Management
Room IV	10:30am-12:35pm	Session 03-5	On-site and Off-site Remediation
Room IV	2:00pm-4:05pm	Session 03-6	Landfill (I)
Room IV	4:30pm-6:05pm	Session 03-6	Landfill (II)
Room V*	8:00am-10:05am	Session 05-1	Bio-response
Room V	10:30am-12:35pm	Session 05-2	Ecotoxicology
Room V	2:00pm-4:05pm	Session 05-3	Microbiology and Microbial Degradation (I)

Room V	4:30pm-6:05pm	Session 05-3	Microbiology and Microbial Degradation (II)
Poster Room	7:00pm-9:00pm	Poster Session II	Sessions 01-09 ~ 01-16, 02-4~02-6, 03-4~03-6, 05, 06, 07, 08, 09, 10
Monday, August 21			
Room I	8:00am-10:05am	Session 11-02	Water Quality Modeling
Room I	10:30am-12:35pm	Session 11-03	Process Modeling
Room II	8:00am-10:05am	Session 01-12	Industrial Wastewater Biotreatment
Room II	10:30am-12:35pm	Session 01-9	Phosphorus Wastewater Biotreatment
Room III	8:00am-10:05am	Session 02-4	Waste/Hazardous Gas Control Techniques (I)
Room III	10:30am-12:35pm	Session 02-4	Waste/Hazardous Gas Control Techniques (II)
Room IV	8:00am-10:05am	Session 03-4	Waste Recycling (I)
Room IV	10:30am-12:35pm	Session 03-4	Waste Recycling (II)
Room V	8:00am-10:05am	Session 14-1	Society and the Environment
Room V	10:30am-12:35pm	Session 14-2	Environmental Ethics and Laws
Tuesday, August 22			
Room I	8:00am-10:05am	Session 13-1	Environmental Analytical Technologies
Room I	10:30am-12:35pm	Session 13-2	Environmental Monitoring
Room I	2:00pm-4:05pm	Session 12-1	GIS for Environmental Assessment
Room I	4:30pm-6:05pm	Session 12-2	Data Management and Environmental Remote Sensing
Room II	8:00am-10:05am	Session 01-15	Physico-chemical Wastewater Treatment
Room II	10:30am-12:35pm	Session 01-16	Reactions and Degradation of Wastewater Contaminants
Room II	2:00pm-6:05pm	Session 01-14	Adsorption for Wastewater Treatment
Room III	8:00am-10:05am	Session 02-5	Air Pollutant Monitoring
Room III	10:30am-12:35pm	Session 02-6	Catalysts for Reducing Waste
Room III	2:00pm-4:05pm	Session 07-1	Assessment and Remediation of Sediments
Room III	4:30pm-6:05pm	Session 08-1	Global Change
Room IV	8:00am-10:05am	Session 09-1	Metal Distribution and Bioavailability
Room IV	10:30am-12:35pm	Session 09-3	Phytoremediation
Room IV	2:30pm-6:05pm	Session 09-2	Metal Removal and Remediation
Room V	8:00am-10:05am	Session 15-1	Environmental Quality and Planning
Room V	10:30am-12:35pm	Session 15-2	Environmental Policy and Management
Room V	2:00pm-4:05pm	Session 15-3	Sustainable Development
Room V	4:30pm-6:05pm	Session 15-4	Energy-Related Environmental Problems

Sessions, Reference Numbers, and Presenters

(Including platform and poster presentations)

Plenary Meeting

001. Biofiltration Technology for Effective Control of Air Emissions. **George A. Sorial**
002. The Role of the Humanities in Resolving Environmental Crises. **Robert Frodeman**
003. Influence of Hurricane Katrina on Water Quality. **Aixin Hou**

01-01 Rivers, Lakes and Estuary Systems

425. Design of an Aquatic Biomonitoring Programme Using the Waterways of Shanghai as a Case Study. **Stephan Valley**, Umberto Puppini, Valeria Meineri, Massimo Giani
583. Study on the Effects of Microbubbles to Improve Oxygen-Deficient Water. **Mohammad Shahidul Islam**, Masahiko Isobe, Yukio Koibuchi, Jun Sasaki
650. Bacterial Source Tracking in an Urban River using Specific Gene Markers. **A. Mark Ibekwe**, Stephen. R. Lyon, Menu Leddy
690. In-Situ Investigation in Section of Lesnovska River for Determination Pollution and Electrical Conductivity. Grigor Velkovski, **Svetlana Bozhinova**

779. Selenium Removal in San Joaquin Marsh: San Diego Creek Watershed, Southern California. **Barry Hibbs**, Mercedes Merino, Henry Jones
592. The Concentration, Sources and Control of Nitrate-Nitrogen Pollution Along the Cameroon Coastline. Eric Awa TEYIM, Pius Mbu OBEN, Benedicta Mbu OBEN and Aaron Suh TENING, **George Elambo NKENG**
598. Metal Distribution and Bioaccumulation in Water and Fish of an African Lake. **George E. Nkeng**, Benedicta O. Oben, Pius M. Oben, Alex O. Ugwumba, Tonye G. Okorie, Joseph I. Uponi, Horst Grimme
643. Preliminary Biogeochemical Characterization of Hospital Effluent and its Associated Water Resources in Yaounde-Cameroon. **George E. Nkeng**, George T. Mafany, Wilson Y. Fantong
654. Wind-Induced Entrainment in Small Scale Closed Density-Stratified Water Body with Floating Vegetation. **Akinori Ozaki**, Ken Mori
702. Nutrient Flux and Budget in Ebro Estuary. Orengo, M.A.; **Martí, C.M.**; Falco, S.; Rodilla, M.; González del Río, J. and Romero, I.; Niencheski, L.F.
829. Aquatic pollution in St. Martin's island, Bay of Bengal, Bangladesh. **M. M. Hossain**, MD. H. Islam, M. Islam
108. The Effect of Dam Heightening on Reservoir Water Quality. **Amin Sarang**, Masoud Tajrishi, Ahmad Abrishamchi
426. The Identification of Voc's Evaporating from The Cheun-Tsen River in Taiwan. **Der-Fong Juang**, Chung-Shin Yuan, Wei-Chin Chen
856. Chloroform in Runoff Water. **Svensson Teresia**, Laternus Frank, Sandén Per, Öberg Gunilla

01-02 Water Resources and Watershed Management

436. Variable Drought Descriptor and Applications. **Sevinç Sirdaş**, Zekai Şen
488. Sustainable Development Manner of Groundwater Resources in Loess Area of Zhidan - Jingbian, China. **WANG Wei**, QIN Yupeng, CHEN Jianmin
498. Longitudinal Surveys Identifying Key Contaminant Sources In a Dairying Watershed. **R. J. Wilcock**
519. Multiple Use Water Schemes –Implication on sustainable Livelihood. **Dhruba Pant**, Kamal Gautam, Sabita Dhakhwa
538. Deoxygenation and Contamination of Reservoir Metalimnion. **Kohji Michioku**, Hideyuki Kotani
726. Studies on Hydro-Geochemical Variations Resulting from Groundwater Recharge through Rainwater Harvesting – A Case Study. **S.Rajendran**
533. Environmental Problems Caused by Unreasonable Use of Water Resources in Yinchuan Plain. **Hui Qian**, Yaqiao Sun, Yan Dou
652. Environmental Impact of Condominium Sewerage System in Salvador, Brazil. **Rita Franco Rego**, Maurício Lima Barreto, Nilson Leite Farias, Renata Santana Fonseca
744. Nitrogen Isotopes Support Model of Selenium Mobilization by Nitrate. **Rachel Andrus**, Barry Hibbs
777. Open Services-Oriented Architecture for Accessing Hydrologic Time Series Repositories. **I. Zaslavsky**, D. Maidment, D. Tarboton, M. Piasecki

01-03 Non-point Sources

767. Spatial Distribution and Movement of Dioxins Accumulated in Soils/Sediments in Lake-Biwa Basin. **Keisuke Sato**, Yoshihisa Shimizu, Beaksoo Park, Masakazu Kanematsu, Masafumi Nakamura
828. The Geological Background in Drinking Water Fluorosis Area. **Luo Kunli**
479. Soil Nutrient Changes as Influenced by Different Agroecosystem Management Practices. **Xinyu Zhang**, Liding Chen, Bojie Fu, Qi Li, Xin Qi, Yan Ma
462. Impacts of Land-Use on the Berekese Dam Water Quality and Quantity, Ghana. **Tyhra Carolyn Kumasi**
608. Long-Term Impacts of Regional Urbanization on Runoff and Pollutant Production. YANG Liu, **MA Ke-ming**, BAI Xue, GUO Qing-hai
687. Incorporating Variable Source Area Hydrology into Curve Number Based Watershed Models. Zachary M. Easton, M, Todd Walter, **Tammo S. Steenhuis**, Elliot M. Schneiderman, Dominique J. Thongs, Mark S. Zion

01-04 Groundwater

103. Tools for Groundwater Resource Management in the Urban Environment. **Eyilachew Yitayew Abate**
564. The Risk Evaluation of the Groundwater Pollution Caused by Radionuclide Uranium Bases on the Support Vector Machine. **Zhou S.K.**, Zeng G.M, Li J.B, Qing X.S, Xu S.R
699. Research on the Flow System of Cretaceous Groundwater in Longdong Basin, China. **Li-Yunfeng**, Fu-Xiaogang, Song-Guohui, Wu-Yaoguo, Wang Jiangxia, Hou-Guangcai
739. Effect of Subgrade Layer Property on Heavy Metal Transport from Fly Ash Stabilized Subbase in Highway. **Sazzad Bin-Shafique**, Craig H. Benson, Tuncer B. Edil
867. Study of the Additional Loading Effect from Groundwater Pumping on Land Subsidence in Xi'an. **Hui Zhao**, Hui Qian, Peng Jianbing
868. Leaching of Heavy Metal into Ground Water- Long Term Amounts and Effects. **Owusu Akyaw Kwarteng**
883. Model Investigations of Groundwater Pollution by Nitrogen Compounds. **Vida Rutkoviene**, Laima Cesoniene, Gintautas Mogeris

01-05 Wastewater Discharge Management

448. Zero Discharge Concepts for Treatment of Distillery Wastewater. **Mantha Nagaraj**, Arvind Kumar
526. A New Membrane Technology for Waste Water Management. **Gerry Lachut**, Howard Reed
576. Residential Water Use Impact on Total Dissolved Solids Concentration. M. Brett Borup, **Shawn Wendt**
725. Recovery of Copper by Xanthate and Metallurgical Processes. **Tsang-Chin Chen**, Yi-Kuo Chang, Juu-En Chang, Pai-Haung Shih, Li-Choung Chiang
749. Case Study of Regulatory Agency Cooperation in Meeting a Shared Site Objective. **Robert A. Ellgas**, Robert M. Gray
500. An Artificial Neural Network Approach for Cost Estimation of Wastewater Treatment Plants. **Ru Jiang**, Guangming Zeng, Guohe Huang, Xiaodong Li, Gong Zhang, Jianbing Li
646. Sustainable Energy Use in Aerobic Wastewater Treatment Units. Martin Anda, **Paul Pinamang Kyei**
563. Improvement of Water Quality by Applying Sewer Network Flushing. Joachim Dettmar, **Philipp Staufer**

1-06 Drinking Water Purification

109. Fractionated Natural Organic Matter (NOM) Characteristics on Membrane Rejection Mechanisms of Submerged Ultrafiltration Membrane Reactor. A.W. Zularisam, **A.F. Ismail**, M.R. Salim, M. Sakinah
532. Preparation and Characterization of Photocatalysts with Visible Light Activity by Tetrabutyl Titanate. Xianhuai Huang, **Qilin Li**, Yuchao Tang
700. Biopolymer Alginate: A Potential Coagulant for Water Treatment. **F. Dilek Sanin**, H. Aylin Coruh, A. Mete Yuksel
838. Nanotechnology for Drinking Water Purification. **Allen W. Apblett**, Satish Kuriyavar, Abdulaziz Bagabas, Alan Piquette
558. Purification of Drinking Water by Chlorine Dioxide. CHEN Chang-Qing, **JIANG Bo-Quan**, SUN Yue-Sheng
640. The Effects of Media Size on Pollutants Removal of Biological Activated Filters. **Jiayu Tian**, Wei Wang, Zhonglin Chen, Guibai Li
641. Study of the Factors Influencing Ammonia Removal of Biological Activated Filter. **Jiayu Tian**, Wei Wang, Zhonglin Chen, Guibai Li
786. QSAR Study on the Disinfection By-Products of Drinking Water. Li Zhang, **Pei-jiang Zhou**, Ming-dao Luo, Feng Yang

01-07 Drinking Water Pretreatment and Protection

116. Removal of Perchlorate by Zero Valent Iron under Different Environmental Conditions. **Rangesh Srinivasan**, He Huang, George A. Sorial
483. DBPs in Two Drinking Water Supply and Distribution Systems in Southern Taiwan. **Han Chia-Yun**, Lou Jie-Chung
484. Optimizing the Treatment Efficiency and Formation of DBP in Water Treatment Processes. **Lin Yung-Chang**, Lou Jie-Chung
518. The Sequential Chlorination Process for Integrative Control of DBPs and Microorganism. **Xiaojian ZHANG**, Chao CHEN, Jing LIU, Wenjie HE, Hongda HAN
773. Regeneration of Ion-Exchange Resins Using Biodegradation for Perchlorate Removal from Waters. **Jacimaria R. Batista**, Peter Jensen
824. Arsenic Contamination in Ground Water Drinking Resources – Suggestions for Mitigation Program. **Yameen Memon**, Suleman Abro, Fiza Qureshi, Mushtaq Mirani
696. Water Environmental Capacity Calculation Based on Unascertained Information. **SUN Xiu-ling**, CAO Sheng-le, CHU Jun-da
701. Chemical, Surface-Chemical and Physical Properties of Bioflocs in Response to Growth Conditions. **F. Dilek Sanin**, Mohamed Lamin Sesay, Burcu Durmaz
557. Dephenolization of Drinking Water by Activated Carbon and Chlorine Dioxide Combined Technology. LI Chun, **JIANG Bo-Quan**

01-08 Photocatalytic Water Decontamination

442. Treatment of Industrial Waste Water using Photooxidation and Bioaugmentation Technology. **M.T.Pandya**
774. New Porous Photocatalyst for the Degradation of Organic Pollutants in Water. Yong Zhao, Nageswara R. Yesu, Rafael Ordonez, Maryam C. Zarei, **Geoffrey B. Saupe**
792. Study of Kinetic Parameters Related to The Photodegradation of *P*-Nitrophenol Using UV-(Fenton/Fenton-Like) Reactions. **Zhou Zuoming**, Jing Guohua, Fang Baishan
878. Integrated Advanced Oxidation Processes for Inactivation of Brine Shrimp and Algae in Ballast Water: Assessment of Process Synergism. **Robert W. Peters**, Meghana Gavand
685. Transformation Mechanism of the Degradation of EDC by Photo-Induced Fenton's Process. **K.H. Chan**, C.Y. Kwan, W. Chu

775. Characterization of a New Porous Photocatalyst for Use in Photolytic Water econtamination. **Nageswara R. Yesu**, Rafael Ordonez, Maryam C. Zarei, Geoffrey B. Saupe
776. Synthesis and Optimization of New Catalysts for Photolytic Water Decontamination. **Rafael Ordonez**, Nageswara R. Yesu, Geoffrey B. Saupe
780. Xenon Beam Radiation Assisted Degradation of an Organic Dye in Aqueous Medium. **M. M. Rahman**, I. C. Jeon, M. A. Hasnat, A. J. F. Samed
882. Photocatalytic Degradation of Directred 23 Dye Using UV/TiO₂:Effect of Operational Parameters. Mahmood Reza Sohrabi, **Monireh Ghavami**

01-09 Phosphorus Wastewater Biotreatment

452. Nitrification and Denitrifying Phosphorus Removal in Alternating Activated Sludge Process by On-Line Control. **Peng Yongzhen**, Ma Yong, Wang Shuying
607. Effect of pH on the Competition Between PAOs and GAOs. **Yang You**, Yongzhen Peng, Zhibo Liu
810. Fuzzy Control of EBPR SBR for Phosphorus Removal. Wang Shuying, **Cui Youwei**, Peng Yongzhen
440. Simultaneous Nitrification and Denitrification Via Nitrite in an Upflow Submerged Biofilter. **Haidong Wang**, Yongzhen Peng, Chengyao Peng, Shuying Wang
446. Fuzzy Control of EBPR SBR for Phosphorus Removal. Wang Shuying, **Cui Youwei**, Peng Yongzhen
514. Inactivation and Rejuvenation of Phosphorus Accumulating Organisms in the Parallel AN/AO Process. **Xia Si-qing**, Liu Hong-bo
554. Simultaneous Phosphorus and Nitrogen Removal in Hybrid As-Biofilm System. Nanqi Ren, **Xiuheng Wang**, DONG Jing-hao

01-10 Nitrogen Wastewater Biotreatment

438. Nitrogen Removal from Municipal Wastewater via Nitrite at Low Temperature with Real-Time Control. **X.H. Liu**, S.Y. Wang, Q. Yang, Y.Z Peng
441. Simultaneous Nitrification and Denitrification in Pilot-Scale Pre-Anoxic Anaerobic Oxidation Ditch Process. **H.X.Hou**, Y.Z.Peng, S.Y.Wang, C.Y. Peng
451. Nitrification by Real-Time Control in a Pilot-Scale Predenitrification Plant Treating Domestic Wastewater. **Ma Yong**, Peng Yongzhen, Wang Shuying
457. Microbiology/Biochemistry of the Nitrogen Cycle - Innovative Process Applications for Nitrogen Removal. **Alphonse Warakomski**
482. Effect of DO Concentration and COD/N Ratio on Simultaneous Nitrification and Aerobic Denitrification. **H. Y. Wang**, F. Ma, D. D. Zhou, W. Zuo
597. Nitrite-Type Nitrification from Domestic Wastewater Using Real-Time DO and pH Control. Yongzhen PENG, **Shouyou GAO**, Shuying WANG
660. Influencing Factors for the Accumulation of Nitrite in Biological Aerated Filters. **Feng Xiao**, Liqiu Zhang, Li Feng
671. Influence of Nitrogen Loading Rate on Nitrifying Granulation in SBR Reactors. **Aijie Wang**, Xiang Cheng, Xiuguang Jiang, Changfu Yang
746. Enhancing Nitrogen Reduction in Advanced Individual Onsite Wastewater Treatment Systems. **Joe C. Yelderian, Jr.**, Ronald J. Suchecki Jr., Brian L. Scheffe, Robert K. Pertuit
619. Nutrients Removal from Municipal Wastewater Effluent Using Wood Fiber Filter System. Mi-Young Oh, Hana Kim, Kyung-Min Yang, **Yeong-Kwan Kim**

01-11 Sludge Treatment

552. Phosphate Recovery - An Integral Part of Sustainable Sludge Management and Resource Protection. **David Montag**, Katrin Gethke, Johannes Pinnekamp
740. Sewage Sludge – Difficult Waste or Valuable Material. **Stephan Köster**, Silvio Beier, Johannes Pinnekamp
797. Amount of Metabolite from Pure Substrate by Activated Sludge. **Yuu UBUKATA**
759. Evaluation of Biomass Content in Hais Using Ct-Scan and Computer-Aided Image Analysis. **M. M. Amin**, B. Bina, H. Movahedian, A. Torkian
684. Chromium Removal of Tannery Sludge by Bioleaching Approach with Internal Loop Bioreactor: A Pilot Study. **L.X. Zhou**, S.M. Wang, Y.H. Liao, X.W. Song, X.H. Liu

01-12 Industrial Wastewater Biotreatment

422. Bioremediation and Decolorisation of Distillery Effluent by Sequential Chemical Microbial Treatment. **Pratibha Singh**
430. Biodegradation of Complex Phenolic Mixtures using Hybrid Reactor. **Anushyaa Ramakrishnan**, S.K.Gupta
450. Decolorization of Tiphnylmethane Dyes under Anaerobic Conditions. Harpreet. S.Rai., **Prasanna.K.Mohan**, Uttam.C.Banerjee

614. Optimal Ecological Factors in Process of Denitrification Inhibiting Sulfate Reducing Bacterium. **Wei Li**, Ma Fang, Yao Jie, Aolei Nari, Liu Guang-ming, Zhang Zhao-han
672. Efficiency of Simultaneous Desulfurization and Denitrification Process in an Anaerobic Fixed-Bed Bio-Reactor. **Aijie Wang**, Xuliang Deng, Nanqi Ren, Chunshuang Liu, Chunli Wan
708. Changes in Dewaterability of Mixed Culture in Relation to Carbon Source. **Selim Sanin**, Gonca Yilmaz
764. Biomethanation of Cheese Whey in High-Rate Bioreactors. **Harpreet.S.Rai**, Prasanna.K.Mohan
485. Managing Pollution from Small Scale Industries in Nigeria. **Oke, Olumuyiwa Oladunni**
507. Isolation and Identification of Phenol Degradation Bacteria with High Efficiency and Analysis of Microbial Community of DGGE. **Su Jun-feng**, Ma Fang, Hou Ning, Wang Chen, Wang Hong-yu, Chang Yu Guang
694. *Salvinia natans* is an Ideal System for Phytoremediation. **Anupriya Tyagi**, P. Sharmila, P. Pardha Saradhi
734. Application of a Novel Concept of Wastewater Pre-Treatment in Textile Finishing Industry. **Ralf Minke**, Ulrich Rott
768. Surface Modification of Fungal Mycelium for Enhanced Anionic Dye Removal. Bee Ting Low, **Yen- Peng Ting**, Shubo Deng
865. Anaerobic Treatment of Highly Concentrated Amine Wastewater Using Packed-Bed Biofilm Reactor. **Sheng Chen**, Dezhi Sun, Jong-Shik Chung
804. Treatment of Industrial Purified Terephthalic Acid Wastewater in a Hybrid Airlift Bioreactor. **Shailin Chen**, Zhouyang Zhao, Fuxin Ding

01-13 Municipal Wastewater Biotreatment

510. Scale-Up Criterion for Rectangular Tank Surface Aerator. **Achanta Ramakrishna Rao**, Bimlesh Kumar
531. Enhanced Wastewater Purification by Floating Aquatic Plants. **Y. Zimmels**, F. Kirzhner, A. Malkovskaja, A. Kadmon
586. Domestic Wastewater Treatment by Circulative Channel Flow Process (CCEP). Dapeng Zhang, Li Xie, Leping Song, **Qi Zhou**
594. Novel Method for Municipal Wastewater Treatment. **Taleb H. Ibrahim**, Ahmed Aidan, Valentin Nenov
596. Endogenous Denitrification to Enhance Nitrogen Removal from Domestic Wastewater in Pilot Oxidation Ditch. **Shouyou GAO**, Yongzhen PENG, Shuying WANG, Hongxun HOU
676. Study on the Low Temperature Anaerobic Treatment of Municipal Wastewater. **Chen Zhenmin**, Liu Daowei, Chu Junda, Xie Wei
741. Benchmarking of Municipal Large-Scale Membrane Bioreactors – Overview of R&D in Germany. **Sven Baumgarten**, Silvio Beier, Hiroki Itokawa, Christoph Thiemig, Johannes Pinnekamp
874. Effect of Acclimation Period on Kinetics of Polymer Removal by Activated Sludge. **Yuu UBUKATA**
433. Polymer-Treated Woody Biomass: A Filtration Medium for Removing Phosphate from Water. **Thomas L. Eberhardt**, Soo-Hong Min
437. Filamentous Bulking Control by Seawater and Salt Effects on Sludge Structure. Peng Yongzhen, **Cui Youwei**, Wang Shuying
559. New Process for Domestic Sewage Treatment by Membrane Bioreactor with Bubbleless Aeration. XI Yong, **JIANG Bo-Quan**, LIU Xiao-Bin
645. Effects of Triclosan on Microbial Resistance of Mixed Cultures to Chlorination. **James H. Cunningham**, Lian-Shin Lin
826. Preparation and Characterization of TiO₂ Photocatalysts with Visible Light Activity for Water and Wastewater Contaminant Removal. **Xianhuai Huang**, Qilin Li, Yuchao Tang
590. Fermentative Hydrogen Production in an Upflow Packed-Bed Reactor. **Chenlin Li**, Herbert H. P. Fang

01-14 Adsorption for Wastewater Treatment

119. Adsorbent Selections for the Removal of Anionic Surfactants from Laundry Rinsing Water. **Natasja Schouten**, Louis van der Ham, André de Haan, Gert-Jan Euverink, Sybrand Metz
565. Removal of Uranium From Solution by Schwertmannite Adsorbent Using High Gradient Magnetic Separation. **Satoshi Kato**, Osuke Miura, Daisuke Ito, Yoshiaki Takahashi, Yukio Wada
582. Removal of Reactive Dyes by Adsorption Onto Activated Carbon Prepared from Agricultural Residues and Weeds. **Khajornsak Sopajaree**, Warunyoo Songkran
593. Polyacrylic Acid Grafted Chitosan Beads for Highly Effective Adsorption of Lead Ions. **Renbi Bai**, Nan Li
602. Removal of Dyes from Textile Industry Wastewater Using Adsorption Technique. **Muhammad Ahsan Iqbal**, Muhammad Arif Butt, Tahir Jamil
670. Micro-polluted raw Water Treatment by Composite Zeolite Adsorption and Aerated Biofilter Process. **Liu Jinxiang**, Lou Jinsheng, Chen Chunling
697. Zeolitisation of Pumice: Effects of Grain Size on Adsorption Kinetics and Flow. **Christopher D. Johnson**, Fred Worrall
752. Kinetic Aspects of Arsenate and Phosphate Adsorption onto Granular Ferric Hydroxide (GFH). **Alexander Sperlich**, Benno Baumgarten, Arne Genz, Mathias Ernst, Martin Jekel
588. Equilibrium and Kinetics Modeling of Phosphorus Adsorption onto Blast Furnace Slags. Guiyu ZHAO, **Qi ZHOU**, Li XIE

877. Competitive Adsorption Impacting Removal of Iron and Lead from Solution. **Robert W. Peters**, Sandra Nunez
798. Amino Acid Uptake and Phosphate Release by Anaerobic/Aerobic Activated Sludge. **Yuu UBUKATA**, A. Ibe

01-15 Physico-chemical Wastewater Treatment

421. Extractants for Phenol Recovery by Solvent Impregnated Resins. **Bernhard Burghoff**, Louis van der Ham, André de Haan
494. Treatment of Synthesis Wastewater by Fenton Method and Ferrite Process. **Huang Yu-Jen**, Lou Jie-Chung
663. A H₂O₂-Assisted Photoelectrocatalytic Oxidation Process for Water and Wastewater Treatment. **X. Z. Li**, Y. B. Xie
667. Study on the New Type of Mixing Coagulants to Treat Oilfield Wastewater. Tang Zhengzheng, **Zhao Lin**, Lu Yiren, Tan Xin
698. Zeolitisation of Pumice: Effects of Geochemical and Physical Properties on Zeolite Formation. **Christopher D. Johnson**, Fred Worrall
854. Dissolution Kinetics of Amorphous Silica in High pH Solution. **A. H. M. Faisal Anwar**, J. H. Choi, Yasuaki Ichikawa
879. An Overview of Technologies for Treatment of Oily Wastewaters. **Robert W. Peters**, M.P. Sharma
106. Characteristics and Coagulation Mechanism of Macromolecular Coagulant which Traps Heavy Metals. **Qing Chang**, Mingquan Yu
881. Chromium Removal from Wastewater: An Isotherm Study. **Shashi Prabha Dubey**, Krishna Gopal
495. Treatment of Reactive Brilliant Red Dye Wastewater by Chlorine Dioxide Catalytic Oxidation. **Wang Cheng-tao**, He Qi-huan, He Peng
656. Effect of Coagulants on the Filterability of Membrane Bioreactor. Li Chunjie, **Li XIE**
765. Calcium Accumulated Onto Gac as Affected by Ozonation and Coagulation. **Esteban R. Miño**, Tetsuji Okuda, Wataru Nishijima, Mitsumasa Okada
870. Treating Heavy Metal Laboratory Waste Liquid by Ferrite Process and Auxiliary Methods. **Chien-Kuei Chang**, Lou Jie-Chung

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516. Respirometer Study and Simulation of the Biodegradation Process of Endocrine Disrupting Compounds in Wastewater Treatment Plants. **Zlata Simunic- Grenoble**, Chunlong Zhang
553. The Importance of Mixing in a Homogenous Advanced Oxidation Process. **M. Brett Borup**
605. Performance of Waste Caustic Applied Autotrophic Denitrification Process with Cloume Reactors. **Im-Gyu Byun**, Ju-Hyun Go, Jeung-Jin Park, Tae-Joo Park, Tae-Ho Lee
682. Effect of Ultrasonic Irradiation on the Catalytic Activity and Stability of α -FeOOH in the Presence of H₂O₂ on Dye Degradation. **M. Muruganandham**, Jerry J. Wu
863. Experimental Studies on the Oxidization of 2,4,6-Trinitrotoluene by Ozone Oxidization. **WU Yao-guo**
683. Mineralization of N-Methylpyrrolidone by Ozone Based Advanced Oxidation Processes. **M. Muruganandham**, Jerry J. Wu
782. Preparation of Novel Fenton Reagent by Solar Light-Illuminated Nano-Cu₂O/Chitosan Composites. Jin-yi Chen, **Pei-jiang Zhou**, Jia-lin Li, Yan Wang
783. Studies on Preparation, Characteristics and Photocatalysis of Cuprous Oxide/Chitosan Nano-Composites. Jin-yi Chen, **Pei-jiang Zhou**, Jia-lin Li, Xiao-qin Li
599. Biodegradation Pathway of 3-Fluorophenol by the Activated Sludge. **Zhang Chaojie**, **Zhou Qi**, Chen Ling, Yuan Yuan, Yu Hui
621. Molecular Weight Distribution Variation of Assimilable Organic Carbon during Ozonation/Bac Process. **SHU Shi-hu**, ZHAO Hong-bin, SU Ding-jiang, GAO Nai-yun
678. Investigation on Microwave Degradation of Methyl Orange in the Presence of Modified Active Carbon Catalyst with Ferric Sulfate. **Zhaohong Zhang**, Shuliang ZANG, Yabo SHAN, Hongjie LING, Dianbo DONG
803. Reductive Dechlorination of Chlorinated Hydrocarbons in Water by Cu/Fe System. **D.L. Wu**, H.W. Wang, L.M. Ma
835. Water Pollution by Industries in Lesotho. **Deepa Pullanikkatil**

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515. Aerosol Deposition Fluxes and Deposition Velocities Calculated from ²¹⁰Pb Measurements. **Alfred S. Likuku**
535. Inhalant Particle Vertical Distribution in Urban Ambient Air. **Ren Ailing**, Guo Bin, Zhao Wenxia, Li Liangyu
658. Characteristics of Organic Pollutants Coming from Exhaust Particulate Matter of Diesel Vehicle. **Liu Xiaoyan**, Li Chun, Li Jungang, Li Yingli, Zhu Qianya, Sun Jingxin, Mao Guocheng
710. Determination of Alkyl-Pahs in Atmospheric Particles. **Jin-jun Lian**, Yu Ren, Jian-min Chen, Chun-lei Li, Tian-tao Chen
811. Source Apportionment Modeling of PM_{2.5} in Corpus Christi, Texas. Priya Subramoney, Saritha Karnae, **Kuruvilla John**
873. Collection Patterns of A Single Drop, and A Series of Drops, Falling Through Self-Expanding Arrays of Charged Particulates. S. Kojevnikova, **Y. Zimmels**, Y. Agnon (Technion-IIT, Haifa, Israel)
105. Concentration Correlation and Meteorological Conditions in Atmosphere. Sukarma Thareja

517. Climatology of Aerosol Radiative Properties in Northern China. **Xingna Yu**, Tiantao Cheng, Jianmin Chen, Yan Liu
545. Electrostatic Field-sampler for Collection of Fine Particles for Analysis and Bioassays. **A.K. Sharma**, K.A. Jensen, H. Wallin
618. Prediction the Effects of Bevel Edges on Bevel Edge Dust Catcher Performance. **Li Shan hong**, Li Caiting, Zeng Guangming, Li Simin, Zhai Yunbo
718. The Study on Using Flood Storage and Detention Ponds as Wetlands for Water Environment Improvement. **Jia Haifeng**, Ma Hongtao

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527. Purifying and Recycling Plant Air Reduces Energy Costs. Michael Long, **Howard Reed**
655. Linkage from PSI to AQI in Taiwan. **Chung-Ming Liu**, C. Y. Young, Yen-Chih Lee
692. Atmospheric Volatile Organic Compounds in an Electronic-Industrial City in Korea. **Sung-Ok Baek**, Young-Kyo Seo
812. Impact of Ozone Precursor Emissions in the Corpus Christi Urban Airshed. **Zuber Farooqui**, Kuruvilla John
859. Photochemistry Evaluation of Tropospheric Ozone in the Campinas Metropolitan Region, Brazil. **Claudia Boian**, Maria de Fatima Andrade
523. Sulfur Dioxide Emission from Coal in China and Its Temporal Variations. **Kouhei Yamamoto**, Yongliang Ma, Jiming Hao, Naohiro Kitano
675. Ambient Air Quality Trends and Driving Factor Analysis Since 1980's in Beijing, China. **ZHANG Ju**, MIAO Hong, OUYANG Zhiyun, WANG Xiaoke
800. Traffic Noise and Predictive Models for Kuwait. **P A Koushki**, N Al- Mutairi
851. Ozone Sensitivity and Their Formation Potential in the Megacity of São Paulo, Brazil. **Leila Droprinchinski Martins**, Maria de Fátima Andrade
513. Assessment of Air Pollution Trends in the State of Kuwait. **PA Koushki**, N Al-Mutairi

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104. Design and Development of Purification Unit for Odour Control in Livestock Buildings. Glenn Tubbert, Morten Øgendahl, Nawaf Abu-Khalaf, Ivar Lund, Thomas K. Hansen, Preben Dahl, J. J. Lønsmann Iversen, Hisamitsu Takai, **Thomas J. Condra**
490. Selection of an Appropriate Model to Predict Plume Dispersion in Coastal Area. **Park, O. H.**, Seok, M. G.
571. Indoor Heat and Contaminant Transport Structures under Different Ventilation Modes. **Di Liu**, Fu-Yun Zhao, Guang-Fa Tang
813. Major PM_{2.5} Episodes Affecting a Semi-Arid Coastal Urban South Texas Region. **Saritha Karnae**, Kuruvilla John
733. A Risk Management Model by Identifying Air Pollutants Nearby an Industrial Park in Taiwan. **Jao-Jia Horng**, Y. W. Ho, K.T. Wu

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118. Trickle Bed Air Biofilter Performance for Removal of Multicomponent VOCs. **Zhangli Cai**, Daekeun Kim, George A. Sorial
428. Decomposition of Benzene & Toluene with Nonthermal Plasma. **Jian Li**, Wen-jun Liang, Yu-quan Jin, Jie Li, Yi-li Li
429. Basic Studies on Complex Type Acid Mist Adsorbent. **Yan-Lei Wang**, Jian Li, Yu-Quan Jin, Yi-Li Li, Bing Tang, Hong Ji
473. A New Technology of Removal CO₂ from Flue Gas Using Aqueous Ammonia Forced by Rotating Disk Packed Bed. **Ming-gong Chen**, Zhong-bing Dong, Hong-liu Zhang
503. Assessing the Efficiency of Ozone/UV/H₂O₂ Wet-Scrubbing of Waste Water that Contains VOCs. **Hsieh Fu-Chen**, Lou Jie-Chung
529. Removal of Carbon Dioxide Using A Foam-Bed Reactor. **Amit A. Gaikwad**, Ashok N. Bhaskarwar
771. Phytocapping: Can It Mitigate Methane Emission in Municipal Landfills? **Kartik Venkatraman**, Nanjappa Ashwath
791. Regeneration of the Loaded Feⁱⁱ(Nta) Solution by Mixed Culture in Nitric Oxide Removal from Flue Gas. **JING Guo-hua**, ZHOU Zuo-ming
626. Collection Characteristics of Semi Wet Type Multi-Stage Porous Plate System (Pilot Scale). **Seok-Jun Yoa**, Yong-Soo Cho

02-05 Air Pollutant Monitoring

549. PAHS in Dust from Computers: One Possible Indoor Source of Human Exposure. Yu Ren, Jinjun Lian, Tiantao Cheng, **Jianmin Chen**
468. Fuel Cell Gas Sensor Used for Atmospheric Environmental Monitoring. Wang Yujie, **Dan Dezhong**
504. Atmospheric Polycyclic Aromatic Hydrocarbons Concentration and Exposure Levels at Agra, India. **Amit Masih**, Ajay Taneja

562. Portable Instruments for On-Site Measurement of Odorous Sulfur Gases. **Kei Toda**, Shin-Ichi Ohira, Md. Abul Kalam Azad
662. Compositions of Volatile Organic Compounds (VOCs) Emitted from Solid Lumbers. Hyun - Ju Park, **Jo - Chun Kim**, Yun – Seok Shon, Kang - Nam Park, Ki - Jun Kim, Byung – Dae Park
823. Study on the Method for Rapid Determination of Volatile Organic Compounds in Indoor Air. **Dan Dezhong**, Guan Sheng, Tan Heping, Fang Zheng, Ma Tian
444. Infrared Spectrometric Monitoring and Distant Spectral Analysis of Industrial Gas Pollution. **Sipan R. Asatryan**
548. Emissions of HONO Due to Fireworks during Lantern Festival in China. **Nan Hao**, Bin Zhou, Limin Chen
807. Characterization of Photochemistry during the High Ozone Events in Seoul Metropolitan Area. **Gangwoong Lee**, Meehye Lee, Kyung-Ryul Kim, Jinseok Han
880. The Effect of Aerosols on Clouds and Precipitation Development. **Jorge Alberto Martins**, Fabio Luiz Teixeira Gonçalves, Maria Assunção Faus da Silva Dias
748. New Hybrid-Type Flue Gas Treatment System with Wet Scrubber Followed by Bag Filter. Myong-Joon Park, **Hern Kim**, In-Seob Lee

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493. Treatment of Gaseous Toluene Using a Catalytic Incineration System. **Huang Shih-Wei**, Lou Jie-Chung
661. A Comparison Study on Ebeam-catalyst Coupling Effects for Various Catalysts. **Ki-Joon, Kim**; Jo-Chun, Kim; Kang-Nam, Park; Wan, Namkoong; Young, Sunwoo; Hee-Nam, Song; Sang-gwi, Chung
822. Study on Preparation of Metal-Loaded-Activated Carbon and Its Desulfurizational Capability. Shen Lu, Hua Jian, Liu Yongjun, **Dan Dezhong**
834. Catalytic Incineration of Volatile Organic Compounds in Packed Bed and Fluidized Bed. P.V.K.K.Varma, Rajat Agarwal, A.K.Saroha, **B.K.Guha**
589. Sulfate Formation on Different Iron Oxides via Heterogeneous Reactions with Sulfur Dioxide. **Xiao Wang**, Yong Yin, Jianmin Chen
609. Mixture of Sea-Salt and Hematite as an Efficient Scavenger of Sulfur Dioxide. **Yong Yin**, Xiao Wang, Jianmin Chen

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528. Carbon-based Reactive Barrier for Nitrate Remediation at a Former Swine CAFO. **Richard T. Wilkin**, Stephen R. Hutchins, Tony Lee, Brad Scroggins
577. Passive Alkaline Barrier: A Low Maintenance *In Situ* Treatment for Hexahydro-1,3,5-Trinitro-1,3,5-Triazine Contamination in Groundwater. **Altaf H.Wani**, David B. Gent, Jeffery L. Davis
634. Bimetallic Iron-Aluminum Particles for Effective Dechlorination of Carbon Tetrachloride. Wen-Shan Lee, Yu-Sheng Jhuo, **Hsing-Lung Lien**
713. Effect of Oxidant (Nitrate) on the Performance of Iron Permeable Reactive Barriers. **Qiong Lu**, Lai Gui, Marek S. Odziemkowski, Robert W. Gillham
839. Laboratory Testing of Alkaline Waste Materials for Remediating Acidic Groundwater from Acid Sulphate Soils. **Alexandra N. Golab**, Buddhima Indraratna, Mark A. Peterson

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649. Source Strength Of Explosives on Munitions Contaminated Sites and Risk Assessment. Jennifer Hörner, **Dieter Hennecke**, Neera Singh, Kerstin Hund-Rinke, Werner Kördel
711. Temperature and Carbon Source Effect on Xenobiotic Degradation by *Rhodotorula* Glutinis. **Aysun Vatansver**, Selim Sanin
855. Characteristics and Factors of Phosphorus Loss in Different Landuse of Watersheds. **Yunfeng Huang**, Luoping Zhang, Huasheng Hong, Qiuwen Chen
501. Lignin Degradation by the Soil-Inhabiting Fungus *Penicillium simplicissimum* during Solid-State Fermentation. **Hong Yan Yu**, Guang Ming Zeng, Hong Li Huang, Dan Lian Huang, Guo He Huang, Xing Mei Xi
505. Organic Solvent Vapour Phase Effects on Biological Activity in Contaminated Soils. **M.O. Akinola**, D.L. Jones
567. Density Driven Flow of Gas Phase Chemicals in Soils. **Shoichiro Hamamoto**, Tsuyoshi Miyazaki, Masaru Mizoguchi
862. Different Technologies to Enhance the Natural Attenuation of MTBE at Contaminated Megasites. **Marion Martienssen**, Mario Schirmer

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540. Food Waste Mineralization and Accumulation in Biological Solubilization and Composting Processes. **Hazel B. Gonzales**, Hideki Sakashita, Yoichi Nakano, Wataru Nishijima, Mitsumasa Okada
578. Kinetics of an in-situ Electrochemical Reactive Barrier (EcRB) Treatment of Hexahydro-1,3,5-trinitro-1,3,5 triazine (RDX) Contaminated Groundwater. **David B. Gent**, Jeffery Davis, Altaf H.Wani
719. Range Management Using Lime for Dual Role of Metals and Explosives Transformation. **Jeffrey Davis**, Steven Larson, Andy Martin
732. An Optimal Model of Collecting Center Allocation for the Management of Municipal Solid Waste. **Nataša Iršič Bedenik**, Zdravko Kravanja
793. Surfactant Enhanced Bioremediation of Oil Contaminated Soil. **Yukako Kumada**, Takuro Kisa, Takeru Ohkuma, Yusuke Kuwano, Yoshihisa Shimizu
464. A Radiative Transfer Model for Soil Incorporating Volume and Surface Scattering Phenomena. **David Kuria**, Hui Lu, Toshio Koike, Hiroyuki Tsutsui and Tobias Graf
601. Effect of a Natural Emulsifier on the Biodegradation of Oily Sludge. **George E. Nkeng**, Gerard Nkwelang, Henri F. L.Kamga, S. P. Antai
717. Leachability and Stability of Phosphate-Immobilized Metals in Contaminated Urban Soil and Mining Waste. **John Yang**
846. Analysis of Current Industrial Wastewater Sludge Treatment and Disposal in Shanghai. Zhang Dao-fang, Cheng Hai-jing, **Shi Xue-fei**, Huang Xiao-jing
871. Dynamics of Microbial Community in Temperate Andisol: An Indication of Agroecosystem Restoration. **M. Hasinur Rahman**, Suguru Saiga
872. The Use of Slurry for Managing Forage Mixtures in Temperate Brown Forest Soils. **M. Hasinur Rahman**, Shu-ichi Sugiyama
875. Solid Waste Management of Aligarh City-A Case Study. **Suhail Sabir**, M. Rashid

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492. Recycling Agricultural Wastes to Produce Oil Dispersant: An Ecotoxicological and Bioremediation Perspective. **Gerard Nkwelang**, Henri F L Kamga, George E Nkeng, S P Antai
466. Development of Value Added Products from Plastic and Rubber Wastes. **Jobin Jose**, A Nag and G B Nando
497. Ligninolytic Enzyme from *Phanerochaete Chrysosporium* in Relation to Straw Degradation. **Dan-Lian Huang**, Guang-Ming Zeng, Yang Chen, Xiao-Yun Jiang, Chong-Ling Feng, Guo-He Huang
669. Study on Promotion of Waste Plastic Recycling Based on Material Flow Analysis. **Yoshitada Kakuta**, Toshihiko Matsuto, Yasumasa Tojo, Susumu Ohnuma
706. Catalytic Conversion of Waste Plastics into Hydrocarbon Based Fuels. **Sebastian Bojanowski**, Ernst A. Stadlbauer, Astrid Fiedler, Sajjad Hossain, Andreas Frank, Bernhard Jehle
760. Influence of Desulfurization Slag on Burnability of Cement Raw Mixes. Juu-En Chang, **Ying-Liang Chen**, Pai-Haung Shih, Li-Choung Chiang
795. The Use of Coal Fly Ash and Blast Furnace Slag to Improve the Wastewater Sludge. **Yi-Kuo Chang**, Juu-En Chang, Chien-Jung Lin, Li-Choung Chiang, Pai-Haung Shih
864. Low-Pressure Sludge Homogenization for Increased Energy Production with Improved Economic Benefits at Wastewater Treatment Plants. **Theodore I. Onyeche**
623. One-way Plastic Lunchbox Management in Shanghai. **Shuhui Huang**, Xingyi Dai
796. Collaborative Market Development for Three Demolition Waste Streams. **Amy Bauman**
805. Reclamation of Water-Quenched Slag as Raw Material of Permeable Brick and Glass-Ceramic. **Sheng-Fu Yang**, Wen-Tung Chiu, Ching-Liang Chen, Chin-Cing Tzeng

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550. Zero Valent Iron and Pyrite System to De-Chlorinated Toxaphene Contaminated Soils. **Roger E. Carlton**, N. Lee Wolfe
680. Upgrading the Soil Washing and Treatment Processes on EDC by Using Surfactant. **K.H. Chan**, W. Chu, C.Y. Kwan
712. Peri-Urban Mangrove Forests as Filters and Potential Phytoremediators of Domestic Sewage in East Africa. **Catarina Fonseca**, José Guerreiro, Stephen Bouillon, Marco Vannini, Jamidu Katima, Jeremiah Daffa, Yunus Mgaya, Erik Kristensen, José Paula, Patrick Rönnbäck
714. Modelling Bioremediation of Soils Contaminated with Electrical Insulating Oil by In-Vessel Composting. **L.A.Warner**, A.J. Beck, N.J. Russell, M. Ezzi, J. Rother
847. A Pilot Study on the Role of Protozoa as Indicators in Icast System. ZHANG Dao-fang, WEI Yu, **SHI Xue-fei**, LI Kun
728. A Field Experience of Acid-washing Cadmium-contaminated Agricultural Lands in Taiwan. **Jao-Jia Horng**, C.Y. Kuo, K.Y. Liao
730. The Sampling Strategies of Field Investigation for Cadmium-contaminated Agricultural Lands in Taiwan. **Jao-Jia Horng**, C.Y. Kuo, C.K. Tsai

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439. Nitrogen Removal from Mature Municipal Landfill Leachate via Nitrification and Denitrification. **S.J.Zhang**, Y.Z.Peng, S.Y.Wang, S.W.Zheng, W.Zeng, C.Y. Peng
534. Gas Emissions Law of Municipal Solid Waste in Landfill Site, S-China. **Guo Bin**, Ren Ailing, Ma Jianli
630. Biological Nutrients Removal from Landfill Leachate by Anaerobic/aerobic Biofilm Reactor. **Dezhi Sun**, Sheng Chen, Jong-Shik Chung
657. Tide-Driven Multiphase Flow and Energy Transfer in Porous Media at a Landfill in Rockhampton, Queensland, Australia. **Ninghu Su**, Kartik Venkaraman, Nanjappa Ashwath
665. Phytocapping: An Alternative Technique for Municipal Landfill Remediation. **Nanjappa Ashwath**, Kartik Venkatraman
666. Canopy Interception Significantly Reduces Effective Rainfall on a Phytocapped Landfill. **Kartik Venkatraman**, Nanjappa Ashwath
794. Isotopicanalysis of Ammonium ($\delta^{15}\text{N}$), Nitrate ($\delta^{18}\text{O}$ & $\delta^{15}\text{N}$) and Dissolved Carbon ($\delta^{13}\text{C}$) in Landfill Leachate Plum. **Hossein Mohammadzadeh**, Ian Clark, Annie Bourbonnais, Paul Middlestead
843. New Materials for Recultivation Layers – Experiences of a Four-Year Measuring-Field-Research. **Friederike Meyer**, Stefan Schmitz, Conrad Boley
693. Characterization of Airborne VOC Emissions from a Municipal Waste Landfill in Korea. **Sung-Ok Baek**, Young-Kyo Seo
736. Influence of Hydrogeological Barriers on the Migration Pattern of Leachate in a Municipal Landfill. **Enekwechi L.O**, Longe E.O
772. Wateruse by Australian Native Species Grown on a Phytocapped Landfill Site. **Kartik Venkatraman**, Nanjappa Ashwath, Ajay Sharma

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478. Restoration of Mesopotamian Marshlands. **Hossein Ghadiri**
522. Ecological Restoration of Macrofaunal Community at Luomazhou Segment in Shenzhen River after Keeping Apart Polluted Water. **CAI Lizhe**, LIN Peng, ZHOU Xiping
816. Restoration of Urban Lakes: Mir-Alam Tank, Hyderabad City, India. **B.A. Prakash**, V.V.S. Gurunadha Rao, K. Mahesh Kumar
817. Incorporating Chinese Environmental Policy into Sustainable Development. **Ping Ji**
861. Studies on the Evaluating Index System for Gulf Ecosystem Rstoration and Its Application. **Cui Shenghui**, Yang Zhifeng
759. Evaluation of Biomass Content in Hais Using Ct-Scan and Computer-Aided Image Analysis. **M. M. Amin**, B. Bina, H. Movahedian, A. Torkian
852. Wetlands Conservation; Fifteen Years of Managing Wetlands in Uganda. **Mugabi Simon Levin**

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560. A Study on the Balance of Nitrogen and Phosphorous in Cage Culture. **Yanmao Wen**, Xiangge Wei, Tingfei Shu
568. Seasonal Fluctuations of Bio-Chemical Parameters in Kucukcekmece Lagoon, Istanbul. **Beyza Üstün**, Sevgi Demirel, Elif Okumuş
808. Evaluation and Compariion of two Infection Intensity Rating Systems, DMR and BVR in Hyrcanian Forests of Iran. **Kartoolinejad, D.**, Shayanmehr, F., Hosseini, S. M., Mirnia, S. K.
814. The Effects of Harvesting and Sustainable Management of *Phragmites australis*. **Takeshi Fujino**, Takashi Asaeda
508. Physiological Characteristics of Three Mangrove Species under Salt Stress. **Liao Yan**, Peng Yougui, Chen Guizhu
809. Comparison of three Nutrients K, Zn and Mn in Mistletoe infected and non-infected Iron Wood Trees. **Kartoolinejad, D.**, Shayanmehr, F., Hosseini, S. M.

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651. Specific Gene Targets from *Escherichia coli* for DGGE-Based Bacterial Source Tracking. **A. Mark Ibekwe**, Stephen. R. Lyon, Menu Leddy
653. Rubbish Index and Diarrhea in Salvador, Brazil. **Rita Franco Rego**, Maurício Lima Barreto, Nelson Fernandes Oliveira Statistics
722. System of Biotesting Express Methods. Chupis V.N., **Ivanov D.E.**, Lamina T.V., Burshina S.N.
833. Effect of Endophyte Infection on Cadimum Endurability of Host Perennial Ryegrass. **A. Z. Ren**, Y. B. Gao, L. Zhang, F. X. Xie
735. Ambient Particulate Matter Decreased Human Alveolar Macrophage Cytokine Release. **Keegan Sawyer**, Michael Madden
857. Analysis of Combined Gamma Radiation and Hiperthermic Treatments on *Microcystis panniformis* Komárek et al. (Cyanobacteria). **Erika Cavalcante Silva**

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120. Biomonitoring of Selected Freshwater Macrophytes to Assess Lake Trace Element Contamination: A Case Study of Nal Sarovar Bird Sanctuary, Gujarat, India. **Nirmal Kumar J.I.**, Hiren Soni
431. Phytotoxicity Assessment of Water Soluble Fractions of Refined Petroleum Products Using Microalgae. **Kadiri M. O.**, Eboigbodin A. O.
668. Expression Difference of Mitochondrial Antioxidative Enzymes and Protein Exposed to Hexachlorobenzene. Shun-yao Jiang, **Pei-jiang Zhou**
781. Expression Difference of Mitochondrial Antioxidative Enzymes and Protein Exposed to Cadmium (II). Shun-yao Jiang, **Pei-jiang Zhou**
569. Persistent Organochlorine Pesticides (OCP) RESIDUES in Marine Food Chain. **M. M. Hossain**, Z.B.Din and S. Ibrahim
788. QSARs for Predicting the Total Hydrophobicity and Toxicity of Binary Halogenated Benzene. Li Zhang, **Pei-jiang Zhou**, Ming-dao Luo, Feng Yang
789. Studies on the Fluorescence Quench of Bovine Serum Albumin by Benzidine and Pentachlorophenol. Bing-chuan Yu, **Pei-jiang Zhou**, Guang-han Lu
790. Kinetic Studies on the Effects of Lanthanum and Cerium on the Growth and the Photosynthetic System of the *Microcystis Aeruginosa*. Shi-yang Shao, **Pei-jiang Zhou**
566. Hydroxyl Radical Generation and Oxidative Stress in *Carassius Auratus* after 2,4,6-Trichlorophenol Injection. **Fayun Li**, Liangliang Ji, Yi Luo
587. Hydroxyl Radical Generation and Oxidative Stress in *Carassius Auratus* after 2,4,6-Trichlorophenol Injection. **Fayun Li**, Liangliang Ji, Yi Luo

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435. Molecular Characterization of Arsenite Oxidation Bacteria and Genes in Arsenic Contaminated Groundwater and Soils of China. Haoxin Fan, Jingbo Xiong, Wenming Wang, Xiuyun Zhao, **Gejiao Wang**
481. Denitrifying Performances of an Aerobic Denitrifier, *Pseudomonas Chloritidismutans* Strain X31. **H. Y. Wang**, F. Ma, D. D. Zhou, W. Zuo
506. Isolation, Identification and Nitrifying Characteristics of a Heterotrophic Nitrifier. **Su Jun-feng**, Ma Fang, Wang Qiang, Hou Ning, Gao Shan-shan, Wang Hong-yu
512. FOG Amended Manure Compost for Agricultural Use: Phenotypic Fingerprinting and Phytotoxicity Evaluation. **Nayef Z Al-Mutairi** and Rini Bhattacharya
561. Biodegradation of Cyanobacterial Toxin, Cylindrospermopsin in Drinking Water. **Shiromi Wijesundara**, Glen Shaw, Gayle Newcombe
606. Microbial Community and Kinetic Coefficients of Waste Caustic Applied Autotrophic Denitrification. **Im-Gyu Byun**, Ju-Hyun Go, Jeung-Jin Park, Tae-Joo Park, Tae-Ho Lee
615. The Molecular Biology Identification of a Hydrolyzed Polyacrylamide (HPAM) Degrading Bacteria Strain and Biodegradation Product Analysis. **Wei Li**, Ma Fang
721. Biodegradation Kinetics of Estradiol during Sewer Transit. **Michelle E Jarvie**, David W Hand
743. Bacterial Inoculations and Copper Stress: Effects on Early Growth of *Vigna Radiata*. **Azra Yasmin**, Erum Anwar, Shahida Hasnain
520. Successional Studies of Hydrocarbon Utilizers in Tropical Soil Polluted with Oily Sludge. **Gerard Nkwelang**, Henri F L Kamga, George E Nkeng, S P Antai
539. Isolation and Preliminary Characterization of a 3-Chlorobenzoate Degrading Bacteria. Qi Yun, **Zhao Lin**, Tan Xin, Dong Tao, Tang Zheng-zheng
603. Isolation of Salt-Tolerant Marine Microorganisms for Bod Biosensor. **Cui Jiansheng**, Wang Xiaohui, Wei Fusheng
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628. Nutrients Uptake by Mesophilic Anaerobic Digestion of Blue Mussels. **Lim Yong Giak**, Shuichi Yamamoto, Tatsuki Toda, Chiaki Niwa, Norio Nagao
769. Combining Electrochemical and Surface Analytical Techniques in Investigating Biocorrosion of Stainless Steel. Thi My Phuc Nguyen, **Yen-Peng Ting**, Simo Olavi Pehkonen
770. Polyelectrolyte Multilayers Coating for Inhibition of Biorrosion of Stainless Steel. Xiaoxia SHENG, **Yen Peng TING**, Koon Gee NEOH
860. The Diversity of Archaea and Bacteria in Two Similar Arizona Pristine Soils. **Gejiao Wang**, Derek J. Fairley, Susheela Y. Carroll, Christopher Rensing, Ian L. Pepper

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496. Study on Landscape Pattern Dynamic Change of Regional Wetland Along Yangtze River in Nanjing City. **Zhou Lian-yi, Jiang Nan**
547. Successful Use of Wetland for the Treatment of Soil Containing Explosives. **Claas Meier**, Conrad Boley, Johann Freudenfeld, André Gerth
674. Treating Domestic Sewage with Northern Subsurface Flow Constructed Wetland. **Xi-Ping MA**, Qing-Hua LI, Ning Yu, Qiang LIU
709. Investigation of Spirulina Biomass Yield Using Natural Soil Based Growth Media in Fed-Batch Reactors. **Gözde Yilmaz**, Selim Sanin, Cemal Saydam
718. The Study on Using Flood Storage and Detention Ponds as Wetlands for Water Environment Improvement. **Jia Haifeng**, Ma Hongtao
724. Application of the Marshland Upwelling System (MUS) for Coastal Dwelling Wastewater Treatment. **Kelly A. Rusch**, Haibo Cao, Lorna Putnam, Robert Gambrell
474. Upgrading of Effluents Quality from Tapioca Starch Factory by Subsurface flow Constructed Wetland. **Nathawut Thane**
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785. Phosphorus Sorption Characteristics of Floodplain Sediments in the Lower Reach of Hanjiang River in China. Jian-ru Tian, **Pei-jiang Zhou**

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