

4th International Conference on Environmental Science and Technology 2008
July 27-31, 2008 • Greenspoint Wyndham Hotel • Houston, USA

(It should be noted that it is not the final version. The schedule is subject to change without notification)

Conference Schedule*

	27-July	28-July	29-July	30-July	31-July
Morning 8:00a.m. - 12:10p.m.	Registration From 1:00p.m.	Plenary Meeting	Platform Sessions 4 Groups	Platform Sessions 4 Groups	Platform Sessions 4 Groups
Afternoon 1:30p.m. - 6:05p.m.		Platform Sessions 4 Groups	Platform Sessions 4 Groups	Free Time	Platform Sessions 4 Groups
Evening 7:00p.m. - 9:00p.m.		Poster Session I Light Reception	Poster Session II Light Reception		
7:30a.m. - 7:30p.m.	Registration Exhibition	Registration Exhibition	Registration Exhibition	Registration Exhibition	Registration Exhibition

*Some social activities are not listed in this schedule.

Presentation At A Glance

Monday, July 28			
Meeting Hall	9:00am-11:50am	Plenary Session	Keynote Presentation
Room I	1:30pm-4:05pm	Session 01-01	Water Resources and Assessment
Room I	4:30pm-6:05pm	Session 01-02	Waste water Discharge Monitoring and Management
Room II	1:30pm-4:05pm	Session 02-02A	Air Quality Assessment A
Room II	4:30pm-6:05pm	Session 02-02B	Air Quality Assessment B
Room III	1:30pm-4:05pm	Session 03-03A	Solid Waste Management A
Room III	4:30pm-6:05pm	Session 03-03B	Solid Waste Management B
Room IV	1:30pm-4:05pm	Session 13-2A	Environmental Monitoring A
Room IV	4:30pm-6:05pm	Session 13-2B	Environmental Monitoring B
Poster Room	7:00pm-9:00pm	Poster Session I	Sessions 01-01~01-05, 03,04,11,12,13,14,15,16
Tuesday, July 29			
Room I	8:00am-10:05am	Session 01-08A	Adsorption/Desorption for Wastewater treatment A
Room I	10:30am-12:35pm	Session 01-08B	Adsorption/Desorption for Wastewater treatment B
Room I	1:30pm-4:05pm	Session 01-08C	Adsorption/Desorption for Wastewater treatment C
Room I	4:30pm-6:05pm	Session 01-03	Drinking Water
Room II	8:00am-10:05am	Session 02-04A	Air Pollutant Monitoring and Management A
Room II	10:30am-12:35pm	Session02-04B	Air Pollutant Monitoring and Management B
Room II	1:30pm-4:05pm	Session02-04C	Air Pollutant Monitoring and Management C
Room II	4:30pm-6:05pm	Session02-03	Transport of Air Pollutants and Control Techniques
Room III	8:00am-10:05am	Session 03-01	Contaminants in the Subsurface
Room III	10:30am-12:35pm	Session 03-02	In Situ Remediation
Room III	1:30am-4:05am	Session 03-04	Landfill, Recycling and Phytoremediation
Room III	4:30pm-4:05pm	Session 10-01	Characterization and Degradation of Organic Pollutants
Room IV	8:00am-10:05am	Session 13-01	Environmental Analysis
Room IV	10:30am-12:35pm	Session 14-01	Society and the Environment
Room IV	1:30pm-4:05pm	Session 15-01	Environmental Quality, Planning, and Assessment
Room IV	4:30pm-6:05pm	Session 16-01	Sustainable Development

Poster Room	7:00pm-9:00pm	Poster Session II	Sessions 01-06 ~ 01-10, 02, 05, 06,07,08, 09, 10
Wednesday, July 30			
Room I	8:00am-10:05am	Session 01-05	Nitrogen-Phosphorous Wastewater Treatment & Sludge Treatment
Room I	10:30am-12:35pm	Session 01-06	Municipal Wastewater Treatment
Room II	8:00am-10:05am	Session 08-01	Aerosol Global Warming
Room II	10:30am-12:35pm	Session 02-01	Aerosol
Room III	8:00am-10:05am	Session 01-04A	Water Quality Assessment A
Room III	10:30am-12:35pm	Session 01-04B	Water Quality Assessment B
Room III	10:30am-12:35pm	Session 01-04C	Water Quality Assessment C
Room IV	8:00am-10:05am	Session 05-01	Human Exposure
Room IV	10:30am-12:35pm	Session 05-02	Bioresponse & Ecotoxicology
Thursday, July 31			
Room I	8:00am-11:30am	Session 01-09A	Physico-Chemical Wastewater Treatment A
Room I	10:05am-11:30am	Session 01-09B	Physico-Chemical Wastewater Treatment B
Room I	1:30pm-4:05pm	Session 01-07	Industrial Wastewater Biotreatment
Room I	4:30pm-6:05pm	Session 01-10	Nanotechnology Applications
Room II	8:00am-10:05am	Session 12-01	GIS for Environmental Assessment, Database, & Remote Sensing
Room II	10:05am-11:30am	Session 04-01A	Ecosystem Assessment & Restoration A
Room II	1:30pm-4:05pm	Session 04-01B	Ecosystem Assessment & Restoration B
Room II	4:30pm-6:05pm	Session 04-01C	Ecosystem Assessment & Restoration C
Room III	8:00am-11:30am	Session 09-01A	Metal Distribution and Remediation A
Room III	10:05am-11:30am	Session 09-01B	Metal Distribution and Remediation B
Room III	1:30pm-4:05pm	Session 06-01	Wetlands and Sediments
Room III	4:30pm-6:05pm	Session 09-01C	Metal Distribution and Remediation C
Room IV	8:00am-11:30am	Session 11-01A	Environmental Simulation A
Room IV	8:00am-11:30am	Session 11-01B	Environmental Simulation B
Room IV	1:30pm-4:05pm	Session 05-03	Bioavailability and Microbial Degradation
Room IV	4:30pm-6:05pm	Session 11-02	Water Quality Modelling

Sessions, Reference Numbers, and Presenters*
(***Bold*** name denotes presenting author)

Plenary Meeting

- 778 The Texas Air Quality Studies: State of the Science of Air Quality in Texas and Implications for Air Quality Policy. **David Allen**
- 779 Educating the World's Engineers: The Challenge of Sustainability. **Cliff I. Davidson**
- 780 Clean Technology for Converting Waste Gases from Pulp Mills into Value-Added Chemicals. **Endalkachew Sahle-Demessie**
- 781 Resource Recovery in Waste Management: Conversion of Wastewater into Biofuel. **Jay J. Cheng**

01. Water Pollution and Water Quality Control

01-01 Water Resources and Assessment

- 410 Groundwater Iron Contamination and Impact on Human Well-Being in Rural Coastal Communities, Ndiang Division-Cameroon. **Andrew Ako Ako**, Gloria Eneke, Itie Thompson Mbotake and Manga Veronica. E.

- 437 Modelling to Reduce Risk from Groundwater Contamination- Economic and Environmental Considerations. **Nava Haruvy** and Sarit Shalhevet
- 475 Investigation of PAHs/PAEs in Source Water of Yangtze River. Bing Wu, Xu-xiang Zhang, Da-yong Zhao, Yan Zhang, **Shu-pei Cheng**
- 502 Development of Micro-mesoporous Iron Oxide Materials for the Removal of Arsenic. **Dilshad Masih** and Yoshimi Seida, Yasuo Izumi
- 518 Polymer Combinations as Economizing Factor of the Nutrient Solution in Soilless Culture. Mairapetyan S.Kh., **Alexanyan J.S.**, Tadevosyan A.H., Galstyan H.M., Stepanyan B.T., Tovmasyan A.H., Voskanyan P.S.
- 570 Discussion of Micro-Particles Distribution Charater in Water Treatment Processes. **Wang Zaigang**, Xu Yongpeng, LIU Guangqi
- 580 Distribution of Nutrients in Surface Water and Sediments of Haihe River Mainstream. Min An, Wei Wen, Xue Ming Sun and Shu Juan Sun and **Suiliang Huang**, Lenore P. Tedesco
- 606 Hydrologic Response to Climate Change and Impact on Ecological Water Diversion to the Tarim, Xinjiang, China. **Sun Zhandong** and Gao Qianzhao, Wang Run
- 720 Effect of Gibberellic Acid on Growth, Quality, Yield, Availability of Mineral Nutrients and Bio Chemical Constituents in Tomato under Boranated Irrigation Water. **F.M. Prasad**, Jay Pal Singh and R.R. Singh, A.A. Jilani, Manisha Prasad
- 785 Influence of Water Deliveries on Groundwater Chemistry in the Tarim River, China. **LI Weihong**, CHEN Yongjin, CHEN Yanning, Chen Yapeng

01-02 Waste Water Discharge Monitoring and Management

- 415 Assessment on Seasonal Variation of Wastewater Quality in the City of Taj, Agra, U.P., India. **Namrata Gupta**, Vijeta Gupta, Ram Prakash Singh, Sandeep Gupta, Sanjay Kumar Upadhyay & Govind Sharma
- 431 Physicochemical Qualities of Some Treated Wastewater Effluents in the Eastern Cape Province. **Anthony I. Okoh**, Emmanuel E. Odjadjare, Etinosa O. Igbiosa, Augustina N. Osode
- 446 Use of a Drifting Instrument Platform in A River-Floodplain Study. **Gruberts Davis**
- 542 A Study on Pollution Reduction by Process Control at Electrolytic Manganese Industries. **Ning Duan**, Wang Fan, Zhou Changbo, Zhu Chunlei, Yu Hongbing
- 545 Membrane Based Measurement Technology for In-Situ Monitoring of Gases in Soil. **Detlef Lazik**, Jens Hagenau, Karin Buchwald and Helmut Geistlinger

01-03 Drinking Water

- 440 Reduction of Perchlorate from Contaminated Waters Using Zero Valence Iron and Pladium Enhanced by UV Light . **Q. Amy Zhao**
- 488 Effect of Pre Ozonation on Particles and Organic Matter Removal with Ferric Chloride Coagulation. Ali Torabian, Masoud Negahban Azar, and Abdollah Rashidi Mehrabadi
- 489 Effects of Pre Ozonation vs. Pre Chlorination on Total Organic Carbon Removal in Drinking Water Treatment. Masoud Negahban Azar, Ali Torabian, and Abdollah Rashidi Mehrabadi
- 524 Is Drinking from the Public Water Network the Right Choice? **Hojeij S.**, Nuwayhid I., Habib R., El-Fadel M., Zurayk R.
- 528 Elimination of Persistent Odorous Compounds from Potable Water. Rangesh Srinivasan, **George A. Sorial**, Yejide Mack, and Carolyn Rost
- 588 Photocatalytic Degradation of Bacteria with Ag/TiO₂ under Ultraviolet Light Irradiation. Wei-wei Liu, Dong-hai Wu, **Hong You**
- 638 Removal of Natural Organic Matter from Eskisehir Drinking Water Source by Enhanced Coagulation. Guven Seydioglu, **Vedat Uyak**, Hatice Inan, M. Ugur Akcay, Zehra Yigit
- 657 Drinking Water Status in the Rural Schools of Tamilnadu. **P.S.Navaraj**
- 707 A Comparative Study of the Photocatalytic Oxidation of Humic Acid on Anatase-Rutile TiO₂ Nanoparticles and Immobilized TiO₂. **Zehra Yigit** and Hatice Inan
- 714 Effects of Imidacloprid, Atrazine and Esfenvalerate on Two Freshwater Crustaceans. **Simon Lukancic**, Anton Brancelj, Tatjana Simcic, Soren Achim Nielsen
- 726 Determination of the Dissolved Oxygen Concentration in River Water Using Artificial Neural Networks. **Oktay Ozkan**, Cumali Kinaci

01-04 Water Quality Assessment (A), (B), (C)

- 401 Water Quality of River Sone, India. **Praveen Kumar** and A.K. Singh
- 408 Water Quality and Occurrence of Water-Borne Diseases in the Douala 4th District-Cameroon. **George Elambo Nkeng**, Andrew Ako Ako, Gloria Eneke Takem
- 413 Cumulative Environmental Impact of Cascade Dams Construction on the Quality Water-River. **Keyvan Kimiaie**, Reza Maknoon, Jamshid Moosavi

- 419 The Impact of Wastewater Quality on Receiving Water Bodies in Eastern Cape, South Africa. **AN Osode** and MNB Momba
- 432 Effect of Oilfield Wastewater on Microbiota of a Freshwater in Nigeria. **Obire, O., Adigwe, P.C., Akinde, S.B., Ramesh Reddy P. R. L. and Okigbo, R. N.**
- 435 Water Quality and Arsenic Pollution in Groundwater of Bangladesh. **M. Hamidur Rahman** and Hiroaki Ishiga
- 455 Seasonal Variation of Water Quality of A River Affected by Mine Water Discharge. **D Krishna Bhat**
- 466 Water Quality Evaluation of the Turag River Waters. **M. A. Sattar**, A.K.M. M. Rahaman, and ¹H.S.M. Faruque
- 476 Effect of Irrigation with Saline Water on Kochia Indica as New Forage for Arid Regions. **O. M. I. Hassan**
- 481 Investigation of PAHs/PAEs in Source Water of Yangtze River. Bing Wu, Xu-xiang Zhang, Da-yong Zhao, Yan Zhang, **Shu-pei Cheng**
- 490 Phosphorus Release Measurement and Its Modeling in Latian Reservoir. **Siavash Isazadeh**, Masoud Tajrishy, Nayyereh Sabori Manesh
- 504 Bismuth in Produced Water: A Hazard to Aquatic Resources? **A.E. Pillay**, F.M. Salih
- 527 Influence of Water Chemistry Parameters on the Uptake of Contaminants by SPMDs. **Ping Wang**, Xueqi Fu, Shugui Dai
- 557 Water Quality Assessment in Srikakulam with Social Emphasis on Touristic Places. **K.Mythili**
- 596 Urban Water and Sewerage Services Crisis in Kisumu: Deteriorating Water Quality. **MUNALA, Gerryshom**
- 676 Investigation of the Effect of Roofing Materials on Building Energy Efficiency and Runoff Quality. **Sandra Nunez** and Robert W. Peters
- 695 Modeling Self Purification Mechanism in Water Streams - Egyptian Case Study. Hanan A. Abd El-Gawad, **Rasha M.S. El-Kholy**
- 696 Effect of Operational Parameters of Rapid Sand Filters on Particle Count and Particle Size. Amir Hesam Hassani and **Azadeh Torabian**, Ali Torabian
- 731 Studying Water Quality by Changing the Method of Microorganism Control in Industrial Waters. **E. Bakhshi**, F. Abniki, A. Heydarian
- 733 Assessment of Groundwater Quality around Industries in Manjira and Singur Watersheds in Medak District, A.P., India. **B.A. Prakash** and V.V.S. Gurunadha Rao
- 751 Environmental Risk Assessment of Antibiotics: An Intensive Care Unit Analysis. Sandra Maria Lopes de Souza, Eliane Carvalho de Vasconcelos, Maurício Dziedzic and **Cíntia Mara Ribas de Oliveira**

01-05 Nitrogen-Phosphorous Wastewater Treatment & Sludge Treatment

- 541 Utilization of Dyeing Treatment Plant Sludge as Brick Materials. Zhang Dao-fang, Li Kun, Cheng Hai-jing, **Wang Rui-pu**, Zeng Yue
- 543 Optimizing Nitrifying Community and Achieving Partial Nitrification of Municipal Wastewater with Salt Inhibition. Shu-ying WANG, **Liu YE**, Cheng-yao PENG, Akio TAKIGAWA
- 567 Nitrogen Removal in a Pilot-Scale Step-Feed A/O Process Treating Domestic Wastewater. **Wei Wang**, Shu ying Wang, Ya nan Sun, Yong zhen Peng
- 626 N₂O Production during Complete and Short-Cut Nitrification and Denitrification Treating Domestic Wastewater. Yongzhen Peng, Xiuhong Liu, Chengyao Peng
- 691 Phosphate Removal and Recycle by Magnetic Separation with Zirconium Ferrite Adsorbent. Daisuke Ito, Kenji Nishimura and Osuke Miura
- 727 Kinetics of Phosphorus Uptake by Particles in Estuarine Waters: Effects of Ph, Phosphorus Loading and Salinity. Yingying Zhang, Jing Zhang
- 741 Generation and Treatment Current Status of Sewage at the Rural Village in Korea Central Province. **Bang-Hun Kang**, Jin-Ho Kim and Chul-Mann Choi

01-06 Municipal Wastewater Treatment

- 414 Significance of Mangrove Roots on Municipal Wastewater Treatment. **N. Pi**, N. F. Y. Tam, M. H. Wong
- 523 Optimizing WWTP Design with Simulator. **Dianhai Yang** and Changming Shen
- 590 Coliforms and Organic Pollutant Removal Efficiency of Slow Sand Filter Treating Anaerobic Reactor Effluent. **A.K.Chopra**, Vinay Kumar Tyagi, A. A. Kazmi
- 710 Aerobic Granulation: A Review. **Suhail Sabir**, Shams Qamar Usmani, M.Rashid, I.H. Farooqi

01-07 Industrial Wastewater Biotreatment

- 407 Reverse-gradient Cultivation Method for Anoxic-oxic Contact Oxidation Process Start-up Treating Petrochemical Wastewater. **Jingbo Guo**, Fang Ma, Jie Yao, Jihua Wang
- 429 Biosorption of Cadmium and Lead by Phragmites Australis L. Biomass Using Factorial Experimental Design. **Manal Fawzy**
- 503 Long-Term Performance of Pump and Treat System at Wood-Treating Site. **Hamid Borazjani**, S. V. Diehl, M. Hannigan, M. L. Prewitt

- 534 Study on Filamentous Bulking in Wastewater Treatment with Biofilms. **Yong-wen Ma, Jin-quan Wan**, Yu Chen and Yan Wang
- 604 The Location of Calcium Carbonate Precipitation in Anaerobic Granular Sludge. **Yang Shucheng**, He Yanling, Zhang Pengxiang, Wang Meng and Li Qian
- 636 Novel Operation Mode for Anaerobic Systems Treating Dairy Wastewater. **Nadais, H.**, Barbosa, M., Capela, I and Arroja, L.
- 674 Utilizing Solid Wastes as Microbial Support Material in Anaerobic Baffled Filter Reactor. W. I. Jose, N. T. Du, M. Shoda
- 715 Pooled Pollution Status of River Waterbody from Maharashtra, India. **Ghumare S.S.**, Gaikwad V.B. and Shindikar, M.R., Gunale V.R.
- 732 A Study on Optimization of ASP Wastewater Treatment System. **Xuxiang Zhang**, Dayong Zhao, Bing Wu, Haiying Jia, Shilei Sun, Yan Zhang and Shupeii Cheng
- 753 Efficacy of Erythropleum Suaveolens Water Extracts on Antiaris toxicaria and Bambusa vulgaris. **Akwasi Asamoah**, Ama Serwaa Kusi, Kwasi Frimpong-Mensah, Charles Antwi-Boasiako
- 762 Growth of Coupled Granules under Oxygen-limited Condition. **Yuancai Chen**, Che-Jen Lin, Shiyu Fu and Huaiyu Zhan
- 787 Development of a Consortium of Hydrocarbon Utilizing Microorganisms for Seeding of Oil Polluted Sites. Nkwelang Gerald and **Amos Manyo**

01-08 Adsorption/Desorption for Wastewater treatment (A), (B), (C)

- 418 Adsorbing Micellar Interface for Enhanced Removal of Water Hardness by Activated Carbon Prepared from Wheat Husk. Namrata Gupta, **G. Sharma**, V. Gupta, R.P. Singh, S. Gupta, & S.K. Upadhayay
- 436 Sorption of Phenolics onto Activated Moringa Oleifera Pods from Aqueous Solutions. **Mubeena Akhtar** and M. I. Bhangar, Shahid Iqbal
- 445 Biosorption of Industrial Sludge Containing Malachite Green by Fixed Bed Reactor. **Pijush Kanti Mondal**, Rais Ahmad, Shams Qamar usmani
- 454 Adsorption Behavior of Chromium (VI) Ions from Aqueous Solutions by the Coastal Soils. **D Krishna Bhat**
- 458 Removal of Mercury and Copper from Water with Low Cost Adsorbents. **Jyotsna Lal**
- 474 Effect of GAC Process for the Treatment of Trihalomethanes (THMs) in Drinking Water: A Pilot Scale Evaluation. **Sonmez Arslan**
- 485 Production of Activated Carbon by the Bark of Robsta Eucalyptus. **Shashi Prabha Dubey** and Krishna Gopal
- 540 Research on Nitrogen Removal Using Modified Zeolite and Biofilm System in Scenic-Water. Zhang Dao-fang, **Wang Rui-pu**, Lv Juan, Li Kun
- 563 Fly Ash as Low Cost Adsorbent for Herbicides from Aqueous Solutions. **Neera Singh**
- 565 Removal of Dyes from Aqueous Solutions Using Non Conventional Low Cost Adsorbents: A Review. **Ramesh D. Dod**, Dr. G. Banarjee, Dr. D.R.Saini
- 569 Interaction of Copper and Endocrine Disruptors during Their Sorption onto Sediments. **Qing Yu**, Weiling Sun, Ying Liu and Jinren Ni
- 579 Sorption of Dimethyl Phthalate onto Haihe River sediments. **Suiliang Huang** and Haitao Li
- 645 Effects of Dephosphorization on Artificial Soil Rapid Infiltration System by Select Sorbents. **Tang Can**, Li Guoxue, Shen Yujun
- 690 Adsorption of Endocrine Disrupting Compounds and Its Environmental Implications. **Chunlong (Carl) Zhang** and Mathieu Piovesan
- 712 The Adsorption of Acidic Dye from Aqueous Solution on Activated Carbon Prepared Waste Apricot Stones. **Özgül Gerçel** and Hasan Ferdi Gerçel
- 713 Preparation of Activated Carbon from Waste Fruit Stones by KOH Activation. **Hasan Ferdi Gerçel** and Özgül Gerçel
- 724 Adsorption and Desorption of Phosphate on Fe₂O₃: Effect of Fulvic Acid and pH. **Tsanangurayi Tongesayi**, Eric J. Byam, Sarah, B. Keysper and Michael J. Crounce
- 725 Surfactant Enhanced Remediation: Removal of Water Hardness by Activated Carbon Prepared from Wheat Husk. **G. Sharma**, **Namrata Gupta**, **V. Gupta**, **S.K. Upadhayay** & **R.P. Singh**
- 730 Adsorption of Heavy Metals by Goethite in the Presence of Organic Substance. **Leonid Perelomov**, Irina Perelomova and Nikolay Levkin, Antonio Violante
- 734 Adsorptive Removal of P-Nitrophenol (PNP) on Charred Jute Stick. **M.Ahmaruzzaman** and S.Laxmi Gayatri
- 764 Removal of 2,4 Dichlorophenol by Simultaneous Adsorption and Biodegradation Using Low Cost Adsorbent. **A. Ullhyan**, and U.K.Ghosh

01-09 Physico-Chemical Wastewater Treatment (A), (B)

- 521 Electrochemical Dechlorination of Chloroform in Aqueous Solution on Foam-Nickel Composite Electrodes. **Zhirong Sun**, Shuying Wang, Yongzhen Peng
- 532 Heterogeneous Fenton Reagent Treatment Using Various Ion Exchange Resins for Wastewater Treatment. **M. Brett Borup** and George Tinkorang

- 539 Pretreatment of Pulp Mill Effluent Using Different Coagulants/Chemicals. **Anurag Garg**, I.M. Mishra and S. Chand
- 562 A Case Study - Comparison of Electrolysis Post-treatment and Traditional Post-treatment Techniques in Artificial Diamond Production. Tai Mingqing, Chen Jierong
- 576 Azo Dye Degradation by Ferrate Ion [Fe(VI)] Electrogenerated in Acidic Media. **Minerva Villanueva**, Aracely Hernández, J.M. Peralta-Hernández, E. Bandala González, M. A. Quiroz Alfaro
- 584 Photocatalytic Degradation of Acid Brilliant Scarlet Dyes Using Heteropolyacid-TiO₂ Photocatalysts. **Zhao Jinglian**, Cui Jin and Sun Yaping, **Zhao Liang**
- 618 Application of Cu-Al Nanoporous Pillared Clays for the Wet Oxidation of Dyehouse Effluent. Sung-Jin Kim and Tae-Han Kim and Dul-Sun Kim and **Dong-Keun Lee**
- 664 Coupled Electrochemical Treatment of Nitrate Brine Concentrates. **Jiefei Yu** and Margaret J. Kupferle
- 670 Phenolic Compounds Degradation in Waste Water Samples by Heterogeneous Photocatalysis. **Raquel Cruz**, Aracely Hernández*, Manuel Alemán, J.M. Peralta-Hernández
- 694 The Degradation of Antimony and Nickel Doped Tin Oxide Electrode. WANG Yun-Hai, Chan Kwong-Yu and Li Xiao-Yan
- 735 Generation of Electricity from Wastewater under Acidic Conditions. **Nipon Pisutpaisal**, **Pisut Koom-sup**
- 736 Potential Biocigen Hydrogen Production during Wastewater Treatment. **Nipon Pisutpaisal**, Pinanong Tanikkul, Sirione Boonyawanit
- 758 Physical-Chemical Effluent Treatment of a Plastic Recycler Industry. **J.C.Teixeira**, M.A.M.Marques, F.F.Oliveira

01-10 Nanotechnology Applications

- 421 Parameters Optimization of Fabricating Nano-structured TiO₂-Ag Catalyst to Remove Multi-contaminants. **Daniel Clancy**, Mariely Rodriguez, Wei-da Hao, Jingbo Liu
- 456 Modification of Nitrogen Doping Titania Nanotube Using Electrochemical Method. Ning Wang, **Xinyong Li**, Yuxin Wang and Guang Lu
- 457 Simple Solution Synthesis and Photocatalytic Activity of Well-Oriented 1d ZnO Nanorod Arrays. Yuxin Wang, **Xinyong Li**, Zhenping Qu, Ning Wang and Guang Lu
- 560 Study of Chlorine Dioxide and By-products Formation by Electrochemistry Technology. **Yi-Tze Tsai**, Shu-Hai You, Chun-Fu Lai, Zhe-Min Ji
- 693 The Study on Photocatalytic Activity of Polyaniline Sensitized TiO₂ Nano Composites for Degradation of Triphenylmethene. **Mohammad Rashid**, Suhail Sabir and Shams Qamar

02. Air Pollution and Air Quality Control

02-01 Aerosol

- 486 Grouping of Aerosol Particles in Oscillating Flows. **David Katoshevski** and *Tal Shakked*
- 507 Hematite-NaCl Mixtures Serving As an Efficient Scavenger of SO₂. **Jianmin Chen**, Hongbo Fu, Yong Yin, Jingjing Tai
- 508 The Influences of Heterogeneous Reaction on Particle Optical Properties: A Laboratory Case of SO₂ on Iron Oxides. Huxiong Cui, Xingna Yu, **Tiantao Cheng**, Xiao Wang, Jianmin Chen
- 509 Oxides-NaNO₃ Mixtures—Scavenger of SO₂, Producer of Gaseous HNO₃. **Li Lin**, Jianmin Chen, Lingdong Kong
- 510 Rapid Analysis of SVOC in Aerosols by Desorption Electropray Ionization Mass Spectrometry. Mei Li, Hong Chen, **Xin Yang**, Jianmin Chen
- 623 Vertical Profiles of Ozone and Particle within the Atmospheric Boundary Layer. **Yee-Lin Wu**, Ching-Ho Lin and Chin-Hsing Lai
- 673 Organic Carbon and Elemental Carbon in Fine Particles in Tianjin, China. **Weifang Li**, Yue Peng, Zhipeng Bai, Weigang Qiu

02-02 Air Quality Assessment (A), (B)

- 462 Analysis of Vehicle-Generated Fugitive Road Dust in Kanpur, India. **ANINDITA BHATTACHARYA**
- 586 Modeling of Windblown Dust Events in the Nogales Border Region. **Ana Y. Vanoye García** and Alberto Mendoza
- 717 Determination of BTEX by GC-MS in Offset Printing Plants: Comparison between Conventional and Ecological Inks. Eliza Y. Sawada, Ricardo H. M. Godoi, and **Ana F. L. Godoi**, Mary R. R. de Marchi, René Van Grieken
- 721 Indoor Air Quality Assessment at Elementary Schools in Curitiba, Brazil. D. Avigo Jr, A. F. L. Godoi, M. A. S. Carvalho Filho and **R. H. M. Godoi**, R. Van Grieken
- 737 Humic-Like Substances and Surfactants from Biomass and Airborne Dust Burning. **Yousef Alotaibi**

738 Trend of Atmospheric Formaldehyde and Acetaldehyde from Selected Areas in Kuwait. **YOUSEF ALOTAIB**, MOHD TALIB LATIF, AND PETER BRIMBLECOMBE

02-03 Transport of Air Pollutants and Control Techniques

- 417 Inverse Modeling for Air Pollution Monitoring Network Design: Application in a Real Industrial Area. **A. Khlaifi**, A. Ionescu and Y. Candau
- 531 Abatement Toluene by Non-Thermal Coupled with Catalysis. Zhu Tao, **Li Jian**, Liang Wenjun, Jin Yuquan, Dou Baojuan
- 533 Benzene Biodegradation in Trickle Bed Air Biofilters. Ashraf Aly Hassan and **George A. Sorial**
- 585 Meteorological Patterns During High Ozone Concentration Episodes in Mexicali and Monterrey, Mexico. **Ana Y. Vanoye** and Alberto Mendoza
- 610 Chemical Composition of Airborne Pm10 at Different Locations in Shanghai: Application of Source Apportionment Methodologies. **Francesco Petracchini**, Michela Sinesi, Cinzia Perrino, Ivo Allegrini
- 629 The Analysis on the Peculiarity of the Domestication and Separation of Ethanethiol Degradation Strains. **Ren Ailing**, Guo Bin, Liao Baoshun
- 631 Atmospheric Transfer and Deposition Mechanisms of 210Pb Aerosols onto Forest Soils. **Alfred S. Likuku**
- 655 Oxidation of Total Reduced Sulfur Compounds with Ozone and Metal Oxide Catalysts. **Venu Gopal Devulapelli** and Endalkachew Sahle-Demessie
- 729 Study on Novel Catalyst for Catalytic Conversion of Carbon Dioxide and Water to Produce Fuel Gas. **Guo Bin**, Ren Ailing, Zhang Hui, Yu Shi and Gao Jingxuan
- 752 Effect of H2O on Photodegradation of Gaseous Toluene in the Reactor with TiO2/UV. **Moon-Sun Kim** and **Byung-Woo Kim**, Ji Sun Kim and Woo Kyung Nam
- 793 Impact of Wind-blown Dust on Air Quality in North America. **S. H. Park**, S. L. Gong

02-04 Air Pollutant Monitoring and Management (A), (B), (C)

- 412 Toxic Effect of Tobacco [Nicotine] Intake on the Human Body and Identification of Nicotine in Tobacco by NMR Spectroscopy. **Jyotsna Lal**
- 416 A Novel Application of Non-Linear Statistical Methods to Resolve Pm10 Source Identification. **A. Khlaifi**, A. Ionescu and Y. Candau
- 464 Smokeless Flaring Assessment Study for the Safaniya Onshore Operations. Raafat Alnaizy, Musaed Al-Ghamdi and Abdulaziz Al-Tijani
- 467 Bio-Monitoring Study on Tropospheric Ozone Using White Clover at Bangladesh Agricultural University Farming Area. **M. A. Sattar** and M. T. Islam
- 493 Indoor Respirable Suspended Particulate Matter Concentrations in Households of Commercial and Non-Commercial Areas of Delhi City, India. **Priyanka Kulshreshtha** and Mukesh Khare
- 505 Laboratory Combustion of Agricultural Crop Residues in China: Emission Factor and Inventory. Hefeng Zhang, **Jianmin Chen**, Xingnan Ye, Tiantao Cheng,
- 506 Mechanism of Base-Catalyzed Reaction of Carbonyl Sulfide on Mineral Dust. Haihan Chen, Lingdong Kong, and **Jianmin Chen**
- 598 The Impact of Atmospheric Environment to the Emission of Heavy Metal Content from a High-Tech Industrial Park. **Cheng-Nan Chang**, Guan-Ching Wu, Chih-Wei Hsu, Chih-Hsiang Chuang and Yan-Shin Lu
- 616 Air Pollution Control: A Route to Safer and Healthier Environment. **Aqeel Ahmad Bazmi**, Muhammad Tayyab, Kashif Mahmood
- 624 Measurement of Control Efficiency for NMHC by Flares. **Yee-Lin Wu** and Ken-Min Liu, Ching-Ho Lin
- 625 Comparisons of Measurement Methods for Nitrate and Sulfate. **Yee-Lin Wu** and Chin-Jen Kou
- 671 Fuel Economy and Emissions Characterization of a Hybrid Vehicle in Monterrey, Mexico. Hilda L. Menchaca and **Alberto Mendoza**
- 704 Atmospheric Mercury in Shanghai Ambient Air and Its Regional Impact. Guangli Xiu, Xuejuan Huang, Danian Zhang, Ping Zhang, Ji Cai, Yanyan Zhang
- 705 Contribution of Petroleum Combustion to Atmospheric Mercury Emissions in Shanghai, China. Yanyan Zhang and Guangli Xiu
- 706 Indoor Airborne NOx Purification by Biomass Combined with Photocatalytic Method. Guangli Xiu, Laiming Wu
- 708 Assessment of Urban SO2 Trends and Its Temporal and Spatial Distributions in Turkey. **Hicran Altug** and Tuncay Dogeroglu
- 709 Monitoring of Indoor and Outdoor NO2 Concentrations by Using Passive Sampling Method. **Ozlem Ozden** and Tuncay Dogeroglu

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- 439 Characterization of Atrazine and Terbutryn Degrading Microbes from Soil in Finland. **Liu Xinxin**, Merja Kontro, Anri Aallonen and Jari Tuominen
- 487 Fungal Biodiversity in Lead Contaminated Boreal Pine Forest Soil. **Hui Nan**, Rauni Strömmer and Martin Romantschuk
- 642 Sensitivity Analysis of Partitioning Interwell Tracer Test Applied to Detect Diesel Leakage. Su-Whei Tsuang, and **Min-Der Lin**
- 651 Modification of Soils PAHs Levels and Distribution Profiles by Forest Fires. **Aurore Vergnoux**, Mariane Domeizel and Frederic Théraulaz, Laure Malleret and Pierre Doumenq
- 722 Distribution of Soil Characteristics in Lycium Ruthenicum (Murray) Shrub Land. Gh. A. Jalali¹; H. Akbarian, H. Yosef-zdeh and S. Bour

03-02 In-Situ Remediation

- 609 Surfactant Systems Selection for Organometallic Compounds Solubilization. **Seelawut Damringsiri**, Prangthong Thongkorn, Chantra Tongcumpou and Punjaporn Weschayanwivat, David A. Sabatini
- 611 Genotoxic Effects of a Pyrethroid Insecticide on Channa Punctatus. **Pradipta Kumar Sarangi**, Rajendra Prasad
- 656 Enhanced Electro-Ultrasound Remediation of Chrysene from Contaminated Soil with Zerovalent Iron. **Reena Amatya Shrestha**, Thuy-Duong Pham, Mika Sillanpää
- 698 Effects of Chemical Amendments on Growth, Yield and Metal Uptake of Rice Grown On Acidic Soil. **Senthilkumar P**, Zou Xiaojin, Rongliang Qiu, Huang Suihong

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- 425 Urban Wastes Management in Nigeria. **Smah, Juliet**
- 444 Eco-Center Project - A component of the San Carlos City Comprehensive Solid Waste Management Program. **Loreto c. Sanchez**
- 538 Potential Outlets for MSW Derived Products in India. **Anurag Garg** and A. K. Dikshit
- 544 Sampling Methodology for Intertidal Coastal Sediment: *Hypothetical Design for Review*. **Peter A. John**, Ekpo E. Antai, Nnemeka Okafor
- 556 Solid Waste Pollution in Srikakulam- A Major Hygienic Problem- A Survey. **K.Mythili**
- 568 Environmental Cost of Environmental Investments: the case of Antalya /Turkey. **Tuncay Neyişçi**
- 608 Nondurable Management of Household Waste in Algeria, a Future Threatened of Our Resource (Case of the Town of Batna). SEFOUHI Linda and KALLA Mahdi
- 612 PAH Removal in Biological Slurry Reactor Treating a Soil Contaminated With High Concentrations of TPH, Ali Torabian, **Behzad Torabifar** and Ali Akbar Azimi, Manouchehr Vossoughi
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- 770 Solid Wastes in Nigeria: Environmental and Health Effects. **Otuonye Chimezie**
- 771 Ecopreneural Opportunities in Nigeria: Issues on Solid Waste Disposal and Technology Systems. **Amaefule Remigius Nnadozie**
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03-04 Landfill, Recycling and Phytoremediation

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- 409 Water Quality of Nkolofoulou Spring in the Vicinity Of the Yaounde Municipal Landfill. **Andrew Ako Ako**, Ngati Emmanuel Pivaga, Nzoning Joseph, Biloa Gatién
- 442 Tractor Wheel Compaction on Clay Soil and Its Effects on Crop Production. **Jacob Tsuma Makanga**
- 443 The Effects of Environmentally Friendly Slow-Release Fertilizer Using Wastepaper on Radish. **Modabber Ahmed Khan**, Wang Mingzhi, Jong Yoon Lee
- 522 Restoring the Derelict Minedland on the Jos Plateau of Nigeria through Sanitary Landfill. Francis Ahmadu, Mnse Coren

- 537 Study on Treatment of Leachate by Electrolytic Oxidation in Landfill. **Xia Qin** Xiaoli Yao Mingtao Ma
 605 The Economic Potential of Waste Recycling and Its Implication on Environmental Education in Nigeria. **Francis Ahmadu**, David Dachomo
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 786 Assessing the Extent of Recycling Activities in Muyuka Municipality. Nkwelang Gerald and **Amos Manyo**

04. Ecosystem Assessment and Restoration

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- 469 The Use of Morphological Traits and Protein Electrophoresis Pattern in discrimination of *Pinus eldarica* and its two Natural Generated Forms. **F. Shayanmehr**, S. Gh. Jalali , F. Ghanati, K. Mirjafari and D. Kartoolinejad
 473 Impact of Ecorestoration on the Biodiversity of Sundarbans Mangrove Ecosystem, India. **S. K. Chakraborty**, S. Giri, G. Chakravarty and N. Bhattacharya
 477 Research, Classification and Applying the Functions of Tree Species Ecosystems. Vladimir Caboun
 478 Assessment of Surface Ozone Using Statistical Method: A Case Study in Jinan. **Wenpo Shan**, Haixia Lu, Wenjing Zhang, Peng Yang, Yongquan Yin
 492 Evaluation of Exploitation Value and Its Eco-Environmental Effect of Urban Coal Resource. **Feng Li** Rusong Wang Dan Zhao Beibei Wang
 497 Promoting Farmland Biodiversity in Switzerland with Ecological Cross Compliance. **Felix Herzog**, St3phanie Aviron, Philippe Jeanneret, Serge Buholzer, Thomas Walter, Henryk Luka, Lukas Pfiffner, **Heike Nitsch**
 499 Crisis At Deepor Beel (A Ramsar Site). **Surajit Chowdhury**
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 620 Responses of the Urban Roadside Trees to Traffic Environment. **Hane Li, Bingtao Li, Shengfang Lan**
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 760 Bioturbation of Brachyuran Crabs and Its Impact on Coastal Ecosystem of Midnapore District, West Bengal, India. S. Chatterjee, G. Bhunia and **S. K. Chakraborty**
 761 Functional Role of Microarthropods in Nutrient Cycling Of Mangrove-Estuarine Ecosystem of Midnapore Coast Of West Bengal, India. M. K. Dey, A. K. Hazra, and **S. K. Chakraborty**

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- 564 Risk Factor and Antibiotic Resistance of Commensal Bacteria. **M. Balayan**, A. Manvelyan, P. Wanyan, S. Mirzabekyan, A. Pepoyan
- 587 Analysis of Pesticides in Hair by Comprehensive Two-Dimensional Gas Chromatography. **Charlotte A. Smith-Baker** and Mahmoud A. Saleh, Jean-Marie D. Dimandja
- 614 Antibiotic Resistance and Microbial Risk Factor in “Agroservice” Farm. **K.Petrosyan**, M. Balayan, A. Manvelyan, S. Mirzabekyan, L. Muradyan, A. Hakobyan, A. Pepoyan,
- 617 Correlation Analysis of Air Pollution and Infection of Respiratory Disease in Pingdingshan. **Zhai Qiu-min** and Shen Juan, Guo Zhi-yong
- 628 Tuberculosis Prevalence Follows Rainfall Pattern in the Fako Health District of Cameroon. **Ane-Anyangwe, I. N.**, Nkuo-Akenji, T. K., Fru-Cho, J. and V.P.K. Titanji, Mbacham, W. F.
- 632 Health Risks of Irrigation with Untreated Wastewater of Tanneries. **Muhammad Aslam**, Ghulam Murshid, Zeeshan Shahid, Zahid Hussain, Muhammad Suhaib Tahir, Muhammad Khan
- 635 Effect of Khaya Grandifoliola on Enzymes and Histology of Organs in Rats. V.V. Bumah, J.M. Agbedahunsi, O.U. Eka, U.E. Essien
- 661 Heavy Metals Influence in Living Bodies Using Enzymatic, Immunohistochemical and Chromatographic Detections. **Mihaela Badea**, Nicoleta Taus, Monica Potrovita
- 662 Mycotoxins Influence in Living Bodies Using Enzymatic and Immunohistochemical Detections. **Mihaela Badea**, Nicoleta Taus, Monica Potrovita
- 768 Antioxidative Status of Young Patients with Parkinsonism from Niger-Delta Region of Nigeria. **C. C. Osubor**, A. O. Ogunrin
- 783 Environmental Risk Assessment of Diclofenac and Ibuprofen in Paraná (Brazil). Javier Salvador Gamarra Jr., Ana Flavia Locatelli Godoi, Eliane Carvalho de Vasconcelos and **Cintia Mara Ribas de Oliveira**

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- 480 Toxicity of the Purified Terephthalic Acid Wastewater on Reproductive System of Mus musculus. **Shilei Sun**, Dayong Zhao, Xuxiang Zhang, Bing Wu, Shupeí Cheng
- 634 Reproductive Toxicity of Wild Rodents as Surrogates of Humans Inhabiting Heavily and Lightly Polluted Areas in Egypt. **H. M. Mahmoud**
- 680 Interaction between the Chlorophenols with the Bovine Serum Albumin by Spectroscopic Methods. Yan Chen and **Pei-jiang Zhou**
- 681 Combined Effects on Induction of Apoptosis by Cadmium and Pentachlorophenol in Primary Cultured Hepatocytes of Carassius Auratus. Yu-liang Dong, Shun-yao Jiang and **Pei-jiang Zhou**
- 682 Interaction between the Chlorophenols with the QDS-BSA Compounds by Spectroscopic Methods. Yi-feng Huang and **Pei-jiang Zhou**
- 683 Induction of Oxidative Stress and Apoptosis by Cadmium in Primary Culture Hepatocytes of Carassius Auratus. **Shun-yao Jiang**, Yu-liang Dong and Pei-jiang Zhou
- 687 Induction of Oxidative Stress and Apoptosis by Cadmium and Pentachlorophenol in Primary Cultured Hepatocytes of Carassius Auratus. **Pei-jiang Zhou**, Shun-yao Jiang and Yu-liang Dong
- 688 Effects of Pyrogallol on the Growth and the Oxidative Stress of Microcystis Aeruginosa. Bi-yun Liu and **Pei-jiang Zhou**
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- 747 Ibuprofen Genotoxicity in Aquatic Environment: An Experimental Model Using “Oreochromis Niloticus” (Tilapia). Marilaine Ragugnetti, Mônica Adams, Ana Tereza B. Guimarães, Graziela Sponchiado, Eliane Carvalho de Vasconcelos and **Cintia Mara Ribas de Oliveira**
- 794 Environmental Conditions for Pseudomonas fluorescens D7 Biological Control of Downy Brome. **A. Mark Ibekwe**, Ann C. Kennedy, and Tami L. Stubbs
- 795 Persistence of *Escherichia coli* O157:H7 on Fresh Produce: Implications for Food Safety. A. Mark Ibekwe Catherine M. Grieve, Sharon K. Papiernik, Ching-Hong Yang

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- 465 Phytotoxicity Assessment of Water Soluble Fractions of Refined Petroleum Products Using Microalgae. **Kadiri M. O**
- 470 Distinction of Mondell Pine and Its Two New Morphotypes by Epicuticular Wax, Lignin Content and Peroxidase Isozymes Assessments. **Fatemeh Shayanmehr**, Seied Gholamali Jalali, Faezeh Ghanati, and Davoud Kartoolinejad
- 684 Bioavailability of Phosphorus Fractions for Incepting of Chlorella Pyrenoidosa in the Lower Reaches of the Hanjiang River in China. Jian-ru Tia and **Pei-jiang Zhou**

776 Suitable Reference Genes in *Pseudomonas putida* mt-2 for Quantitative Gene Expression. **Qing Chang**, Takashi Amemiya and Kiminori Itoh

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- 512 Study on To-and-fro Constructed Wetland Treating Domestic Wastewater. **Changming Shen** and Dianhai Yang
- 547 Phytoremediation of Contaminated Sediment Using Mangrove Wetland Microcosms. **Hui Fung Kum** and Nora Fung Yee Tam
- 577 Experimental Investigation of Phosphorus Release from Haihe River Sediments Capped by Natural Zeolites and Its Modified Ones. Shujuan Sun and **Suiliang Huang**, Paul Smith
- 581 Vertical Profiles of Organic Matter, Nitrogen and Phosphorus in the Sediment of Haihe River Mainstream. Han Lu, Wei Wen, Xueming Sun and **Suiliang Huang**, Lenore P. Tedesco
- 600 A Review of Vegetated Submerged Bed Constructed Wetlands Performance for Nitrogen Removal. **Gilbert Gaboutloeloe**, Shulin Chen, Michael E. Barber, Claudio O Stöckle
- 619 Constructed Wetland for the Non-Point Source Management. Sung-Jin Kim and Tae-Han Kim and Dul-Sun Kim and **Dong-Keun Lee**
- 742 The Study on the Aquatic Macro- Invertebrate Diversity at Small Wetland of the Rural Village in Korea. **Bang-Hun Kang**, Ha-Shik Shim, Jin-Kwon Son and Sang-Hwa Lee
- 790 Distribution of Organochlorine Pesticides in Sediments from the Peacock River, Xinjiang, China. Wei Chen, **Julia Ellis Burnet**, Shihua Qi, Qi Song and Meng Liu

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- 472 Global Climate Change and its Sensitive Effects to China's Environment/ Economy. **Ojekunle, Z. Olusheyi**, Zhao Lin
- 514 "Man-Made Global Warming" – A Baseless Paradigm! **Emanuel Mazor**
- 558 Water Environment Response to Global Climate Change and Human Activities in Arid Regions of Northwestern China. **Yanqing Wu**
- 582 Distribution of Splendid Ponyfish, *Leiognathus Splendens*, As an Indicator of Warm Water Mass. Chiee-Young Chen, **Meng-Hsien Chen**, Pin-Hsuan Chen, Ta-Chieh Wen and Ruo-Shan Tzeng
- 660 Biotic Response to the Closing of the Indonesian Seaway between 3-4 Ma. **Virendra Bahadur Singh** and Ajai Kumar Rai
- 775 Adaptation to Impacts of Climate Change on Water Resources in the Eastern Mediterranean. **Yeshayahu Bar-Or**
- 782 Effect of Solar Activity on Precipitation in India. **M. Bose** & Sourabh Bal

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09-01 Metal Distribution and Remediation (A), (B), (C)

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- 441 Can We Affect Metal Phytoextraction from Contaminated Soils? **Irina Shtangeeva**
- 468 Heavy Metal Contamination of Different Soils and Sediments of Bangladesh. **M. A. Sattar**
- 500 Potential Phytoremediation Species in Abandoned Mine Areas. **Nina M. Cadiz** and Rafael T. Cadiz
- 513 Phytoextraction of Heavy Metal Contaminated Sediments and Water by Macrophytes *Eleocharis Acicularis*. **Masayuki Sakakibara**, Sakae Sano and Rie S. Hori, Aki Harada
- 519 Phytoremediation Potential of *Eleocharis Acicularis* in a Mining Site of Hokkaido, Japan. **NGUYEN Thi Hoang Ha**, Masayuki SAKAKIBARA, Sakae SANO, Rie HORI, Daisuke TAKEHANA, Koichiro SERA
- 520 Heavy Metal Distribution in Framboidal Pyrite by Micro-Pixe. **Hisanari SUGAWARA** and Masayuki SAKAKIBARA, David BELTON Tetsuya SUZUKI
- 548 The Source, Distribution and Accumulation of Heavy Metals in the Soil around Industrial Town of Ahwaz ?, Khuzestan Province, Iran. **Mohammad Sharif Fazeli**, Mir Hassan Moosavi, Zeinab Jassemi Zergani
- 554 *Salvinia* Possesses Inbuilt Potential To Detoxify Cr(VI) To Cr(III). **Bhupinder Dhir**, P. Sharmila and P. Pardha Saradhi

- 592 Effect of Acidophilic Cadmium Resistant *Pseudomonas Putida* 62BN Strain on Soybean (*Glycine Max*) Growth in Presence of Cadmium. **Anju Rani** and Reeta Goel
- 601 Electrokinetic removal of Arsenic from Soil. **Ching Yuan**, Chung-Hsuang Hung
- 602 Butyltin and Heavy Metal Accumulation in Bivalves along a Tributyltin Pollution Gradient. **Wei-Hsien Wang**, Chi-Hsin Hsu, Chung-Wei Tsai and **Chuan-Ho Tang**
- 643 Thallium in Garden Crops from Surroundings of Three Zinc Smelters of Southern Poland. **Krzysztof Dmowski**, Joanna Kowalska and Beata Krasnodebska-Ostrega
- 667 Influence of Organic Matter Biodegradation on Metal Behavior in Contaminated Freshwater Sediments. **Pedroza-Benitez S.**, Bussy A.L., Barceló-Quintal I.D., López-Galván E., Avila-Pérez P.
- 699 Tolerance, Accumulation and Distribution of Zn and Cd in Hyperaccumulator *Potentilla Griffithii*. **Pengjie Hu**, Rongliang Qiu, P. Senthilkumar, Fengjie Liu, Zhongwei Chen, Dan Jiang
- 701 SEM-EDX Depth Profiling Study of Coatings on Recyclable Cans for Toxic Metal Distribution. **A.E. Pillay**, **S. Fok** and **A.A. Elhameed**
- 716 Assessment of Phytoremediation Potential of Floating Plants for Copper and Nickel. Anupriya Tyagi, **P. Sharmila** and **P. Pardha Saradhi**
- 739 Impact of Chemical Speciation on Removing and Recovering Metals from Wastewaters. Pieter Tansens, Alberto T.Rodal, Manuela D. Machado, Carina Machado, **Eduardo V. Soares**, Mónica S. Santos and **Helena M.V.M. Soares**
- 749 Phytostabilisation – A Sustainable Remediation for Zinc Toxicity in Soils. **Prabha Padmavathiamma** and **Loretta Li**
- 766 Heavy Metals in Water, Sediments and Wetland Plants in an Aquatic Ecosystem of Tropical Industrial Region, India. **Prabhat Kumar Rai**
- 777 Heavy Metals Content in Surficial Sediments of Banjir Kanal Barat and Babon Rivers, Semarang, Indonesia. **Noverita Dian Takarina**
- 788 Reducing the Environmental Pollution Using Metal Complexed Lignosulfonates as Copolymerization Partners. Lucia Dumitrescu, **Mihaela Badea**, Ileana Manciulea

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- 595 Accumulation of PAHs in Surface Soil of Background Locations in Delhi, India. **Tripti Agarwal**, P.S. Khillare
- 603 Fluorescence Behaviour of Selected Endocrine Disruptors and Humic Substances during Biodegradation Process. **Weiling Sun**, Ying Liu, Jinren Ni
- 668 Mixed Culture Biodegradation of Four Estrogens. **Sanghyun Kim** and Robin Autenrieth
- 685 Predicting the Binary Mixture Toxicity of Organic Compounds by Artificial Neural Network. Li Zhang, **Pei-jiang Zhou**, Ming-dao Luo, Feng Yang and Zhen-dong Wang
- 773 Physiological and Transcriptional Response of *Nitrosomonas europaea* to Inhibition by Chlorobenzene. **Sean C. Sandborgh** and Mark Dolan

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- 448 Potential of Close Range Photogrammetry for Terrill Soil Erosion Quantification. **Mohamed A. M. Abd Elbasit**, Hiroshi Yasuda and Hisao Anyoji
- 483 Index Estimating the Moisture Availability Using the Day-Night Surface Temperature Difference. **Abdelmoneim A. Mohamed**, Reiji Kimura and Masato Shinoda
- 589 Analysis of Observed Ozone Episode at an Urban Site in East China. **Wenpo Shan**, Haixia Lu, Yongquan Yin
- 597 Applicability of Ann Models as a Possible Early Warning Tool for Algal Bloom Prediction. **Jaco Bezuidenhout** and Sandra du Plessis, Carin van Grinkel
- 607 Modeling Desert Sand Flow and Dune Advance: A Case of Kalahari Desert, Botswana. **Gilbert Gaboutloeloe**
- 646 New Ecotoxicological Model to Simulate Mortality of Aquatic Invertebrates after Exposure to Pesticides. **Suiliang Huang**, Yafei Jia, Hsun-Chuan Chan and Sam S. Y. Wang
- 652 Modeling Long-Term Accumulation of Radionuclides in the Soil-Plant-System Originating From a Groundwater Contamination. **Annemieke Gärdenäs** and Henrik Eckersten, André Reinlert, David Gustafsson and Per-Erik Jansson, Per-Anders Ekström and Maria Greger
- 653 Tracey, a Simulation Model of Trace Element Fluxes in the Soil-Plant System for Long-Term Assessment of Groundwater Contamination. **Annemieke Gärdenäs** and Henrik Eckersten, André Reinlert, David Gustafsson and Per-Erik Jansson, Per-Anders Ekström and Maria Greger

- 663 Watershed Indexing Scheme Using SWAT Model Phased Management Plan for Critical Sub-Watershed. **Hala Abayazid, Ashraf El-Said, Alaa El-Zawahry**
- 686 System Dynamic Analysis for Water Environmental Carrying Capacity in Main Areas of Wuhan City. Nan-cui Zhang, Meng-ling Yi and **Pei-jiang Zhou**, Yan-bo Wang
- 750 CO₂ Removal Using a Froth Bed Reactor. **Amit A. Gaikwad**
- 757 A Simple Model of Kinetics and Mass Transfer of the UASB Reactor Processes. **Larisa Korsak**, Andrés Cabezas, Luis Moreno

11-02 Water Quality Modeling

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- 571 Optimization Operation Strategy for Drinking Water Treatment Systems. Wang Zaigang , **Xu Yongpeng**, Cui Fuyi
- 578 Two-dimensional Numerical Modeling of Chemical Transport-transformation in Fluvial Rivers. **Suiliang Huang**
- 591 A 2-D Stochastic Water Quality Model Based on Mass Transfer Theory. **WANG Peng**, WANG Yi, GUO Liang, JIANG Ji-Ping ,WANG Dong-Mei; LIU Xun
- 633 Spatial Modeling for Ground Water Salinity in Al-Hassa Saudi Arabia. **Yousef. Y. Al-Dakheel and Massoud. A. Massoud**
- 675 Modelling of Short Term and Decadal Trends in Lake Salinity in Southwestern Victoria, Australia. John A. Webb and **Yohannes Yihdego**

12. GIS, Database, and Remote Sensing Applications

12-01 GIS, Database and Environmental Remote Sensing

- 459 GIS-Based Regional River Water Quality Information Management System Design and Implementation. **MA Min-tao**, GOU Kai-cong, GUO Jin, QIN Xia, SUN Lei
- 511 A New Mathematic Approach for Oil Spill Risk Assessment. **Yuming Fang**, Lin Zhao, Tao Dong
- 515 Urban Environmental Quality Evaluation of Bhopal City. **ANSHU GUPTA**
- 535 Application of Data Mining Based on BP Neural Networks in PM_{2.5} Prediction. **Xia Qin** Jingzhi Su Mingtao Ma
- 536 Application of Data Mining in Environmental Science. **Xia Qin** Jingzhi Su Mingtao Ma
- 622 Community-Based Flood Mitigation: Case of Tsetsebjwe Village, Botswana. **Gilbert Gaboutloeloe**, Alfred S. Likuku, and Dikeme Kgaodi
- 677 Remote Sensing Spartina Alterniflora Marsh Dieback along the U.S. Gulf Coast. Amina Rangoonwala and Elijah Ramsey III
- 754 Web – Based Remote Sensing and GIS Interactive Teaching Tools for Sustainable Development. **Mahtab A. Lodhi Ph.D.**, and Rushikesh Kale
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