### Conference Schedule

<table>
<thead>
<tr>
<th>6-June</th>
<th>7-June</th>
<th>8-June</th>
<th>9-June</th>
<th>10-June</th>
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<tbody>
<tr>
<td>Morning</td>
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<tr>
<td>8:00a.m. - 11:50a.m.</td>
<td>Registration</td>
<td>Plenary Meeting</td>
<td>Platform Sessions</td>
<td>Platform Sessions</td>
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<tr>
<td>Afternoon</td>
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<tr>
<td>1:30p.m. - 6:00p.m.</td>
<td>Platform Sessions</td>
<td>Platform Sessions</td>
<td>Platform Sessions</td>
<td>Visit NASA*</td>
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<tr>
<td>Evening</td>
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<tr>
<td>7:00p.m. - 9:00p.m.</td>
<td>Poster Session I</td>
<td>Poster Session II</td>
<td>Award Announcement, Dinner</td>
<td></td>
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<tr>
<td>7:30a.m. - 6:00p.m.</td>
<td>Arrival / Registration</td>
<td>Registration</td>
<td>Registration</td>
<td>Registration**</td>
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*There is an optional activity to visit NASA paid by participants (noon - 7pm). ** 8:00a.m – 11:50a.m.

### Presentation at a Glance

#### Tuesday, June 7

<table>
<thead>
<tr>
<th>Session Number</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>Session 00-01</td>
<td>Plenary Meeting</td>
</tr>
<tr>
<td>Session 01-14A</td>
<td>Adsorption/Desorption for Wastewater Treatment</td>
</tr>
<tr>
<td>Session 01-14B</td>
<td>Adsorption/Desorption for Wastewater Treatment</td>
</tr>
<tr>
<td>Session 02-01</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Session 02-02</td>
<td>Air Quality Assessment</td>
</tr>
<tr>
<td>Session 02-03</td>
<td>Transport of Air Pollutants</td>
</tr>
<tr>
<td>Session 02-04A</td>
<td>Waste Gas Control Techniques (A)</td>
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<tr>
<td>Session 02-07</td>
<td>Catalysts for Reducing Emission</td>
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<tr>
<td>Session 03-01</td>
<td>Contaminants in the Subsurface</td>
</tr>
<tr>
<td>Session 03-02</td>
<td>Natural Attenuation of Contaminants</td>
</tr>
<tr>
<td>Session 03-03</td>
<td>In-Situ Remediation</td>
</tr>
<tr>
<td>Session 03-04</td>
<td>Solid Waste Management</td>
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<tr>
<td>Session 03-05</td>
<td>Human Exposure</td>
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<tr>
<td>Session 03-06, 03-07, 03-08, 03-09, 03-10, 03-11, 03-12, 03-13, 03-14, 03-15, 03-16</td>
<td>Sessions 01-01<del>01-10, 02-1</del>06, 03-1~03-04, 09, 10, 11, 12, 13, 14, 15, 16</td>
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#### Wednesday, June 8

<table>
<thead>
<tr>
<th>Session Number</th>
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<tr>
<td>Session 01-14C</td>
<td>Adsorption/Desorption for Wastewater Treatment</td>
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<tr>
<td>Session 01-10</td>
<td>Nitrogen-Phosphorus Wastewater Treatment</td>
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<tr>
<td>Session 01-11</td>
<td>Sludge Treatment</td>
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<tr>
<td>Session 01-12</td>
<td>Municipal Wastewater Biotreatment</td>
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<tr>
<td>Session 01-13</td>
<td>Industrial Wastewater Biotreatment</td>
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<tr>
<td>Session 02-04B</td>
<td>Waste Gas Control Techniques (A)</td>
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<tr>
<td>Session 02-05</td>
<td>Air Pollutant Monitoring</td>
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<tr>
<td>Session 02-06</td>
<td>Hazardous Gas Biofiltration Iilution</td>
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<tr>
<td>Session 02-08</td>
<td>Fuel Gas DeSOx, DeNOx, and Metal Removal</td>
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<tr>
<td>Session 02-09</td>
<td>Air Pollution Prevention and Management</td>
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<tr>
<td>Session 02-10</td>
<td>Noise</td>
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<tr>
<td>Session 03-05</td>
<td>On-site and Off-site Remediation</td>
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<td>Time</td>
<td>Session</td>
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<td>8:00am-6:05pm</td>
<td>Session 03-06</td>
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<td>8:00am-6:05pm</td>
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<td>Session 10-02</td>
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<td>Session 12-01</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 12-03</td>
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**Thursday, June 9**

**Meeting Rooms**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-01</td>
<td>Rivers, Lakes and Estuary Systems</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-03</td>
<td>Water Resources and Assessment</td>
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<td>8:00am-6:05pm</td>
<td>Session 01-05</td>
<td>Non-point Sources</td>
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<td>8:00am-6:05pm</td>
<td>Session 01-06</td>
<td>Wastewater Discharge Management</td>
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<td>Session 01-07</td>
<td>In-situ Measurement an Monitoring</td>
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<td>8:00am-6:05pm</td>
<td>Session 01-08</td>
<td>Drinking Water</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-09A</td>
<td>Water Quality Assessment/Management</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-13</td>
<td>Municipal Wastewater Biotreatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-15</td>
<td>Physico-chemical Wastewater Treatment</td>
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<td>8:00am-6:05pm</td>
<td>Session 01-17</td>
<td>Nanotechnology Applications</td>
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<td>Session 01-04</td>
<td>Ecosystem Assessment</td>
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<td>Session 01-02</td>
<td>Nutrients and Functions of Ecosystems</td>
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<td>Session 01-03</td>
<td>Restoration of Ecosystems</td>
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<td>8:00am-6:05pm</td>
<td>Session 01-05</td>
<td>Urban Ecosystems</td>
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<td>Session 01-06</td>
<td>Wetland Conservation</td>
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<td>Session 01-07</td>
<td>Wetlands for Wastewater Treatment</td>
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<td>Session 01-08</td>
<td>Assessment of Sediments</td>
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<td>Session 01-09</td>
<td>Remediation of Contaminated Sediments</td>
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<td>Metal Distribution</td>
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<td>Metal Removal and Remediation</td>
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<td>Session 09-03</td>
<td>Speciation, Bioavailability and Accumulation</td>
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<td>Phytoremediation</td>
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<td>Environmental Analysis</td>
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<td>Field Measurement Technologies</td>
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<td>New Method Applications</td>
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<td>Environmental Monitoring</td>
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<td>Session 14-01</td>
<td>Society and the Environment</td>
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<td>Session 14-02</td>
<td>Environmental Ethics and Laws</td>
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<td>Session 14-03</td>
<td>Environmental Education</td>
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<td>Session 15-01</td>
<td>Environmental Quality and Planning</td>
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<td>Energy-related Environmental Problems</td>
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<td>Environmental Policy and Management</td>
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<td>GIS for Environmental Assessment</td>
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<td>Data Management and Statistics</td>
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<td>8:00am-6:05pm</td>
<td>Session 12-03</td>
<td>Environmental Remote Sensing Applications</td>
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**Conference Center**

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<thead>
<tr>
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<th>Event</th>
<th>Topic</th>
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<tbody>
<tr>
<td>6:30pm-7:00pm</td>
<td>Award Announcement</td>
<td>Including Student Paper Award, Young Scientist Paper Award, Conference Paper Award, and Poster Award</td>
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Sessions, Reference Numbers, and Presenters
(Including platform and poster presentations, not the final version)
(Poster sessions will be scheduled on June 7th and 8th)
(Presenters are listed, while some co-authors are not included)

Plenary Meeting

991. Geological and Anthropogenic Imprints on Ground Water Quality: Beware of the Anecdotal Models. Prof. Barry J. Hibbs (California State University, Los Angeles, USA)
992. Who is Responsible for the Environment? Prof. Erica Schoenberger (The Johns Hopkins University, USA)
993. The Future of Human Environment and Health: Sustainability through Integrated Approach. Prof. Momoh A. Yakubu (Texas Southern University, USA)
994. Manufactured Nanomaterials: New Emerging Contaminants and Their Potential Impact to Drinking Water Resources. Dr. Endalkachew Sahle-Demessie (U.S. EPA, USA)

01. Water Pollution and Water Quality Control

01-01 Rivers, Lakes and Estuary Systems

522. Identification of suitable area for the establishment of riparian forest in Lower Saxony, Germany. Wei Jiang and Rainer Marggraf
888. Freshwater Mussels of the Upper San Antonio River Watershed and Lower Cibolo Creek in Bexar, Guadalupe, Wilson, and Karnes Counties: Abundance and Densities. Larry Larralde
1107. Nitrification and Denitrification by Algae-Attached and Free-Living Microorganisms during Cyanobacterial Bloom in Lake Taihu. Xiaofeng Chen, Haiyang Jiang, Liuyan Yang

01-02 Watershed Management

530. Tailings Storage Facilities and Environmentally Sustainable Mining. Erica Schoenberger
632. State Approaches to Watershed-Based Permitting. Danielle Stephan, Greg Currey
804. Impact of Watershed Management Activities in Land Use Pattern and People’s Livelihood in Nepal. Ajay Karki
01-03 Water Resources and Assessment

546. Survey of Physical-Chemical Quality of Superficial Waters at the Surrounding Area of the Sebkha Basin (Moknine, Tunisia). Taoufik Naamoun

597. Natural Attenuation of Indicator Bacteria in Natural Water Systems, Amin Kiaghadi and Hanadi S. Rifai

637. Fate and Transport of Pharmaceutical Residues in Three Mile Creek Mobile, AL. Darius Hixon, Alison Robertson, Kevin White, Timothy Sherman and Shannon Mitchell

763. Assessment of Water Balance in the South-West Coastal Region of Bangladesh. Nepal C Dey, Mohmood Parvez, Nur A. Khondaker

954. (Moved to 01-15)

01-04 Groundwater


717. Occurrence of Fluoride from Deeper Aquifers (Granites) and Shallow Aquifers (Basalt) from Nanded, Maharashtra, India. Ramakant D. Kaplay, S.S.Potdar, H.S.Patode, T.Vijay Kumar and H.Sangnor

809. Groundwater Pollutant Loading in Urban Watersheds along Lined and Unlined Channels. Barry Hibbs


885. Modelling of Arsenic Removal from Groundwater by Electrodialysis. Rose Marie O. Mendoza, Meng-Wei Wan, Chi-Chuan Kan, Maria Lourdes P. Dalida

887. Assessment of Groundwater Quality of Mulakalacheru Area, Chittoor District, Andhra Pradesh, South India Using Multivariate Statistical Techniques. Thejaswi Arveti


01-05 Non-point Sources

01-06 Wastewater Discharge Management


01-07 In-Situ Measurement and Monitoring

01-08 Drinking Water

588. Association of Drinking Water Hardness and Endothelial Function in Children and Adolescents. Parinaz Poursafa, Roya Kelishadi, Mohammad Mehdi Amin


754. Suspended Bacteria Community of Processing Units in the Typical Drinking Water Treatment Plant of China. Weiyang Li, Feng Wang*, Junpeng Zhang and Wanqi Qi

758. Willingness to Pay for Safe Drinking Water in the Coastal Area of Bangladesh: A Pilot Study in Tala Union, Satkhira


780. Options for the Removal of Arsenic from Drinking Water in Rural Areas of Bihar, India. Nityanand Singh Maurya, Astha Kumari, Sudhir Nigam


807. Interaction between Hydrolysis and Flocculation, and Its Influence on Generation of Disinfection By-Products with Aluminum. Hong Shen • Xin Chen • Hongbin Chen


868. Assessing Drinking Water Quality at High Dependent Sources: Case Study in the Coastal Region Bangladesh. Ratnajit Saha and Nepal C. Dey

01-09 Water Quality Assessment/Management

547. Contaminant Reduction by Pervious Concrete Pavement and Bamboo Bioretention Basin. Vincent Hwang, Amber Masters, Evelyn Montalvo, Sangchul Hwang
562. Toxicology of Azo Dyes with Respect to Their Metabolically Produced and Chemically Related Aromatic Amines. King-Thom Chung
725. Isolation and Characterization of Rhodanese Produced by Klebsiella Edwardsii from Cyanide Polluted Stream. O. A. Adedeji, O. T. Aladesanmi and M. K. Bakare
772. Restoring Water Quality for Municipal Water Supply through a Collaborative Liaison for Land Management. Joachim Ibeziako Ezeji
805. Water Quality Assessment for Melen Watershed in the Marmara Region, Turkey. Atilla Akkoynulu, Ersin Orak
886. Analysis of Elevated Concentrations in Trace Elements and Nutrients in Urban Creek. Michael Harrison and Barry Hibbs
975. Coliform Counts and Plankton Species in Lawaye River, Batangas as Indicators of Pollution. Natividad F. Lacdan, Jose Rafael L. Lopez, and Renz Michael F. Pasilan

01-10 Nitrogen-Phosphorus Wastewater Treatment

575. Study on the Effect of Different Fillers on Nitrogen Removal of Nitrifying Bacteria. Hu Xiaomin, Liu Fang, Zhao Xin
605. Phytoremediation of Nutrient-rich Wastewaters Using Duckweed. Summer Lentini, Emily Smith, David Petrik, and Sara Arana
773. Wastewater Nutrients Uptake by Chlorella Vulgaris in Mixotrophic Growth Mechanism. Muhammad Ilyas, Shaikh Abdur Razzak
940. Effect of Temperature on the Competition between Suspended and Attached Nitrifying Bacteria in MBBR System. Bin Dong, Qunbiao He, Jundong Wang
958. Removal of Nitrate from Wastewaters Using Algae. Selim L. Sanin, Mohammad izhar, Aydin Akbulut

01-11 Sludge Treatment

601. Change of pH and ORP with Applied DC on Leachate Activated Sludge, Gülizar Kurtoğlu Akkaya, Elif Sekman, Selin Top, Senem Yazici Guvenc, Ece Sagir, Mahir Ince and Mehmet Sinan Bilgili
675. Reduced Sludge Growth at High Bulk Liquor DO Induced by Increased Maintenance. Anwar Khursheed, Meena Sharma, Rubia Z. Gaur, Abid Ali Khan, Vinay Kumar Tyagi, A. A. Kazmi
765. Effect of Thermal-alkaline Pretreatment on Microbial Communities in an Anaerobic Digestion of High-solid Sludge. Wang Tao, Gao Peng, and Dai Xiaohu
840. Efficient Anaerobic Production of Volatile Fatty Acids from Sewage Sludge by Alkyl Polyglucose. Jingyang Luo, Leiyu Feng, Yinglong Su, Yinguang Chen
898. Field Application of Ultrasonic Washing on Oily Sludge Treatment. Yinxin Gao, Ran Ding, Yu Zhang, Min Yang
970. Effects of Anaerobic Digestion on the Combustion of Sewage Sludge. Emrehan Berkay Çelebi, Aységül Aksoy and F. Dilek Sanin
01-12 Municipal Wastewater Biotreatment

(Also listed in Session 01-16)

539. Pretreatment Performance of a Novel AWFR for Decentralized Domestic Wastewater. **Juan-hong Li**, Xi-wu Lv

617. See 643


651. Treatment of Rural Non-Point Source Domestic Water by Subsurface Wastewater Infiltration System (SWIS). Binhui JIANG, Liping JIA, Haiyan WANG, Xiaomin HU

748. A Pilot-Scale Study of a Modified Wastewater Treatment Process Using the Sludge Reduction Effect. Chenyi Shi, Yushan Wang, Xiange Wei, Wuzhen Guo, Meishan Lin, Jinxin Tan and Lianpeng Sun


961. Enrichment of Denitrifying Methanotrophic Bacteria of the NC10 Phylum from Activated Sludge. **Shubham Singh** and Jih-Gaw Lin

01-13 Industrial Wastewater Biotreatment

673. Surface Engineered Green Polymers for Enhanced Water Decontamination. Moushumi Ghosh

744. Decolorization of Anaerobically Digested Molasses Spentwash by Fungal Strain: Isolation and Screening of Strains. **Mrityunjay Singh Chauhan**, Anil K. Dikshit


967. Improvement of Bacterial Biodemulsifier Biosynthesis in Permeabilizing Agent-Enhanced Utilization of Rape Oil. **Yuyan Zhang**, Kaiming Peng, Yansong Wei, and Xiangfeng Huang

1111. Volatile Fatty Acid Production during Acidification of Olive Mill Wastewater, **Havva BAG1**, Secil ERDEM1, **Canan Can Yarimtepe**, Orhan Ince and Nilgün AYMAN OZ

1112. Moved to 01-15

01-14 Adsorption/Desorption for Wastewater Treatment


595. Treatment of Wastewaters Contaminated with Cadmium Ions Using Date Palm Trunk Fibers as a Low Cost Adsorbent in a Fixed Bed Column. **Waid Omar**

609. A Comparative Study on Production of Activated Carbon from Hardwood Chips and Pellets. Hafiz Ahmad, Jordan Meyers and Brandon Madden

610. Molecular Simulation and Validation Studies of Resorcinol Adsorption on Ordered Mesoporous Carbon. Bing Chao, **Zaki Uddin Ahmad**, and Daniel Dianchen Gang

611. See 610

630. Natural Iron-Based Material As a Cost-Effective Solution for the Treatment of Arsenic Contaminated Waters from Gold Mine. **Małgorzata Szlachta** and Patryk Wójtowicz


642. Conversion of Black Liquor into Activated Carbon for Ciprofloxacin Removal from Wastewater. **Anirudh Gupta**

653. Valorisation of Grape Pomace to Effective Biosorbent for Waste Water Remediation **Arunima Nayak**, Brij Bhushan

685. Experimental Study of Congo Red and Direct Red 80 Adsorption from Water onto Carbon Nanotubes. **Madhu Agarwal** & Priti Kumari


731. Multiwalled Carbon Nanotubes as a Novel Solid-Phase Extraction Adsorbent for TPH Determination in Contaminated Water. **Akinpelu A Adeola**, Ilyas Muhammad a, Ahsan M Shemsi a

784. Ammonia Nitrogen Adsorption by Zeolite and Wetland Soils Under Different Temperatures Weihuang and Weidong Wang
834. Heterogeneous catalytic degradation of acetaminophen and simultaneous oxidation/adsorption of arsenite by Cu-Zn-Fe-LDH Hongtao Lu, Zhiliang Zhu, Jianyao Zhu
867. Electrospraying Saccharomyces cerevisiae Immobilized Onto Composite Nanofibrous Mats for Heavy Metals Adsorption. Hongbing Deng, Xiaodan Qiu, Zhaoyang Zeng
914. Sun-Coral Powder as Adsorbent for Phosphorus Removal in Wastewater. M.T.G Vianna* and Marcia Marques.

01-15 Physico-chemical Wastewater Treatment

525. Target-specific Capture of Relevant Gaseous Pollutants Using Biodegradable Polymeric Nanoparticles. Fernanda Delbuque Guerra, McKenzie L. Campbell, Daniel C. Whitehead and Frank Alexis
548. Electrocoagulation to Strengthen the Treatment of Oil Shale Wastewater by A/O-MBR. Xiaomin Hu, Guangsheng Qian, Wenxi Chen, Hui Wang
668. Study of Washing Kinetics of Non-Polluting Anionic Lithographic Printing Inks. Chandrakant S. Sarkar and Ashok N. Bhaskarwar
702. Effect of Calcium Ions on Haloacetic Acid (HAA) Rejection by Nanofiltration (NF) Membranes. Linyan Yang, Victor W.-C., Chuyang Y. Tang
709. Quartz Sand Filter Medium for Oily Wastewater by Hydrophobic Modification. Wei Bigui
718. Mineralization of Quinoline in Aqueous By Microwave-Enhanced Catalytic Wet Peroxide Oxidation System: Optimization and Modeling Using Central Composite Design. Zhongzhe Yang, You Hong* and Zhang Bo
743. Dephenolization of NF Concentrates Streams from Pretreated Olive Mill Wastewater through a Fixed-Bed resin Reactor and Polyphenols Recovery. Jacques Romain Njimou and George Elambo Nkeng, Marco. Stoller, Agnes Cicci, Angelo Chianese and Marco Bravi
749. Applying Activated Carbon/Silver Catalyst with Ozonation to Decompose Wastewater of Tetra-Methyl Ammonium Hydroxide (TMAH). Chang, Cheng-Nan, Li-Wei Lu and Wen-Chih Hsu
756. Persulfate activation in the Presence of Formic Acid for Carbon Tetrachloride and Chromium (VI) Removal. Xiaogang Gu and Shuguang Lu
760. Oxidative Transformation of Refractory Benzothiazoles with PMS/CuFe₂O₄ Process. Tao Zhang and TorOve Leiknes. Tao Zhang
810. See 743
828. p-Agi Anchored on n-Bi₂O₃CO₃ Sheets by Co-Crystallization with Excellent Photocatalytic Performances under Visible Light. Lili Zhang, Chun Hu
852. Effect of Persulfate (S₂O₅²⁻), Hydrogen Peroxide (H₂O₂) and Microwave Irradiation Pretreatments on the Biochemical Methane Production Potential of the Wastewater Sludges. E. Özön, A. Erdinçler
897. Physico-Chemical Qualities of the Treated Final Effluent Discharges of Some Wastewater Treatment Plants in Buffalo City Municipality, Eastern Cape, South Africa. T Kulati, OO Okoh and Al Okoh
945. Comparison of Fenton and Photo-Fenton Removal Efficiencies during Ampicillin Degradation. Asfoun Nikravan, Selim L. Sanin
951. Comparison of Ballast Water Treatment by Ultraviolet Radiation and Electrolysis. Donghai Wu and Guanghua Lu, Ran zhang and Hong You
954. Properties of CuO Nanoparticles-Humic Acid Flocs and Membrane Fouling: Influence of Aluminum Species and pH. Yongbao Chu, Xue Wang, Yan Wang and Nan Xue
01-16 Reactions and Degradation of Wastewater Contaminants

509. Acute Toxicity of Graphene Nanoplatelet to Bacterial Communities in Activated Sludge. **Hang Ngoc Nguyen** and Debra Frigi Rodrigues

556. Isolation of Bacteria from Lake Waters Associated with Wastewater Effluents Capable of Degrading Various Pharmaceuticals. **Noreen Gallagher** and Dr. Jeff Lodge

606. Characterization and Quantification of DOM in Wastewater and its Interaction with Pharmaceuticals. **Sanjeeb Mohapatra**, Neha Sharma, Suparna Mukherji and Lokesh P. Padhye

607. Removal and Degradation Pathway of Sulfamethoxazole from Municipal Wastewater Treatment by Anaerobic Membrane Bioreactor. **Chun-Hai Wei**, Claudia Sanchez Huerta, and TorOve Leiknes.

883. OH Radical Formations in Phyto-Fenton Reactions: Detection and Application. **Shigeki Nara**, Yoshihiko Inagaki and Yutaka Sakakibara

902. Continuous Treatment of Wastewaters Containing PPCPs by an Electrochemical Advanced Oxidation Process, **Junya Suzuki**, Eiji Kawada, Taiki Maehata and Yutaka Sakakibara

923. Deep Insights into the Mechanism of 2,4-Di-tert-butylphenol(2,4-D) Degradation by Using UV/persulfate with a New Model. **Qiongfang Wang**, Yisheng Shao, Naiyun Gao and Xiang Shen.

01-17 Nanotechnology Applications

510. Characterization and Effect of Nanoparticles (**Trigonilla foenum**) on Waste Water Treatment. **Mai A Elobeid** and Manal A Awad

533. Removal of Estriol in Water Using Sequentially Coupled Membrane Filtration/TiO₂ Photocatalytic Processes. **Irving Ramirez**¹, Ashantha Goonetilleke², Erick R. Bandala³

559. Interaction of Engineered Materials with Microbial Biofilms and Its Potential Applications. **Hengye Jing**, George A. Sorial, and Endalkachew Sahle-Demessie

582. Study on the Influence of Addition of Acids on Particle Size and Surface Area of Titanium Dioxide Photocatalyst. **Padmini Ellappan** and **Lima Rose Miranda**

592. Understanding the Formation of Naturally Occurring Silver Nanoparticles in Aquatic Environment. **Nathaniel F. Adegboyega**

603. Optimized Synthesis of Polymer-based Graphene Oxide Nanocomposites for Heavy Metal Adsorption using Response Surface Methodology. **Jem Valerie D. Perez** and María Lourdes P. Dalida, Debora F. Rodrigues

664. Cadmium Removal from Groundwater Using Magnesia and Alumina Nanoparticles. **Xin Song** and Neel Kamal Koju

737. Electrospun Rectorite/TiO₂/Polymer Nanofibrous Mats for Adsorption of Heavy Metals. **Yingfei Zhan** and Hongbing Deng

759. Estimation of TPHs in Oil Contaminated Wastewater by Adsorption on MWCNTs Using Solid-Phase Extraction Coupled With GC-FID. **Ilyas Muhammad**¹, Akeem Akinpelu¹, Ahsan M Shemsi¹

817. Multifunctional Graphene-Based Nanocomposite Modified Membrane Filters for Heavy Metals and Bacteria Removal from Water. **Yvonne Ligaya F. Musico** and Maria Lourdes P. Dalida, Debora F. Rodrigues and Catherine M. Santos

968. Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. Mohamed Soliman Elshikh

1000. Study on the Photocatalytic Degradation of Microcystins by TiO₂ Immobilized on Fiberglass Cloth. **Deqiang Chen**, Yiqun Chen

1115. Electrospun Carbon Nanofibers with Zero Valent Iron Nanoparticles (ZVINPs@ECNFs) for Heavy Metals Remediation in Ground and Wastewater. Nikhil. R. Mucha, **Ramesh Ravella**, Muchha, R. Reddy, Lifeng Zhang

02. Air Pollution and Air Quality Control

02-01 Aerosol
02-02 Air Quality Assessment

503. Integrated Assessment of Particulate Matter in KPK and Baluchistan by Using GAINS- South Asia Model. **Sheikh Saeed Ahmad** and Aisha Khan

519. Heavy Metals in Road Dust from Xiandao District, Changsha City, China: Characteristics, Health Risk Assessment and Integrated Source Identification. Jingdong Zhang, **Fei Li** and Jun Yang


660. Chlorinated Paraffins in Canadian House Dust and NIST SRM 2585 (Organic Contaminants in House Dust). **Xinghua Fan**, Hongtao Shang, Carlton Kubwabo, and Pat E. Rasmussen

687. Air Pollution Source Apportionment Using Tracer Inorganic and Organic Species as Markers. **Tarun Gupta** and Dharmendra Kumar Singh


936. Decreasing Emission Factor of Pollutants in Abadan Refinery by Renovating the Furnace Design. **Abbas Zabihi** and Mohammad Raazi Tabari

02-03 Transport of Pollutants

751. Numerical Modeling of Air pollution particles Transport and Deposition in Human Lung. **V.K. Katiyar**


822. Modelling Ground-Level Ozone Concentration Using Improved Data-Mining Algorithms. **S. MOHAN** and P. SARANYA

900. Commuter's Exposure to PM2.5: A Case Study of BRTS Corridor in Delhi. Rajeev Kumar Mishra and **Amrit Kumar**

02-04 Waste Gas Control Techniques


560. Advanced Buffer Materials for CO2 Control: Improved Air Quality and Energy Conservation in Commercial Buildings. Pavithra Rajan, Glenn Morrison, **Fatemeh Rezaei**
02-05 Air Pollutant Monitoring


739. Trifluoroacetic Acid Level in the Atmosphere of Beijing and Its Relationship with PM2.5. Junyu Guo, Jian Zhuang


755. Seasonal Control on Shape Modification of Suspended Particulate Matter from Northern Indo-Gangetic Alluvial Plain. Munmun Chakrvorty and Jayanta Kumar Pati.

764. Anthropogenic Spherules as a Major Pollution Indicator in Urban Area. Ambalika Niyogi

782. A Preliminary Assessment of Major Air Pollutants in the City of Urumqi, China. Francesco Petracchini, Angelo Cecinato, Lucia Paciucci, Valerio Paolini and Flavia Liotta

786. Methodologies for a Better Interpretation of the Preliminary Assessment: IAPMS Pančev. Lucia Paciucci, Francesco Petracchini, Angelo Cecinato, Paola Romagnoli, Valerio Paolini, Flavia Liotta, Francesca Vichi and Micl Biscotto

802. Regional Air Pollution Monitoring by Ground-based Remote Sensing. Jianguo Liu, Wenqing Liu, and Pinhua Xie

999. An Innovative Approach to Use MODIS AOD Data for PM2.5 Monitoring. Zhiming Yang, Harris Williams

02-06 Hazardous Gas Biofiltration


552. Effect of Methanol and Toluene on Removal of Trichloroethylene in a Fungi seeded Biotrickling Filter. Dhawal Chheda and George Sorial


02-07 Catalysts for Reducing Emission


871. A Novel SnO2-CoO Catalyst for NO Oxidation with H2O. Huazhen Chang, Mingguan Li, Junhua Li...
02-08 Fuel Gas DeSOx, DeNOx, and Metal Removal

613. Influence of Fe Loadings on Desulfurization Performance of Activated Carbon Treated By Nitric Acid. Jiaxiu Guo, Song Shu and Xiaoli Liu

02-09 Air Pollution Prevention and Management

688. How Do Plant Leaves Remove Dust and its Attached Metals on the Roadside of Beijing? Zheng Yang, Yan-Ju Liu
869. Future Perspective and Mitigation Options for Atmospheric Mercury (Hg) Emissions in China. Qingru Wu, and Shuxiao Wang
881. Economics Impact of Traffic Congestion and Urban Transportation in Chennai City. B.P Chandramohan and Lunhar Jajo
980. Performance of Venturi Scrubber for the Removal of Dust Particle. Manisha Bal*, and B. C. Meikap

03-01 Contaminants in the Subsurface

540. Preliminary Study of Heavy Metal Pollution in Soil of Industrial Zone of Surat – India. Tank Shantilal K*, Mehra Bhavna K.
855. Assessment of Soil Contamination Due to Kota Stone Slurry Effluents in Kota Region of Rajasthan. Er. Sachin Maurya, Er. Urvashi Maheshwari, and Prof. A K Dwivedi

03-02 Natural Attenuation of Contaminants


03-03 In-Situ Remediation

531. Effects of Arbuscular Mycorrhizal Fungi on the Growth and Ce Uptake of Maize Grown in Ce-Contaminated Soils. Wei Guo*, Fang Wang, Pengkun Ma and Liang Pan
580. Innovative In-Situ Oxidation Technologies for Treating Groundwater Contaminated by Chlorinated Solvents and 1,4-dioxane. Hua Zhong, Mark Brusseau, Ni Yan, Lina Zhang, and Peng Cui.
658. Modified Fenton's Oxidation for Pallikaranai Wetland Remediation. Ambika Selvaraj
841. An Efficient Consortium of Biosurfactant Producing Bacterial Strains for Remediation of Hydrocarbon. Suresh Deka and Kaustubhmoni Patowary
03-04 Solid Waste Management / Polymer Waste Recycling and Management

504. E-Waste Management and Their Importance of Environmental Protection and Sustainable Development Approach to Environmental Education. Seyed Mohammad Shobeiri, Batoul Nazari
529. Assessment of the Effect of Dumpsite on Soil Quality, Ogun State, Nigeria. Ojekunle Z. O., Bada B. S., Ejimkonye O. G and Oyebanji F.F
633. The Effects of Different Condensation Temperatures on Waste Tire Pyrolysis, Nesilhan Doğan-Sağlamtimur, Ahmet Bilgil, Tuğçe Aykanat, Özürn Çalışkan, Funda Yolcu, Elif Dilan Yıldırım, Türkran Vural, Halime Ötgün and Büşra Arıcan
730. Synergy of Sludge, Food Waste Disposal and MSW Incineration in a Commercial Plant. Wu Xiao

03-05 On-site and Off-site Remediation

561. On-Situ Remediation of Nitro Compound Contaminated Soil by Biological-Ecological Method. Quanlin Zhao, Zhengfang Ye, Zhongyou Wang and Zengxiong Li.
665. Treatment of Steel Rolling Mill Effluents Using Semi – Batch Foam Flotation. Varun Sharma and Ashok N. Bhaskarwar
714. Benzo(a)pyrene Biodegradation by Bacterial Candidate Paenibacillus sp HD1PAH and Arthrobacter Nicotianae HD2PAH. Hemen Deka
853. Fenton Oxidation of Polycyclic Aromatic Hydrocarbons in the Concentrates Obtained From the Decontaminated Soil. Malika Bendouz, Lan Huong Tran, Lucie Coudert, Guy Mercier and Jean-François Blais

03-06 Landfill / 03-07 Pemeable Reactive Barriers

660. Treatment of Sanitary Landfill Leachate by Membrane Distillation. Yasemin Melek Tilki, Gizem Sahin, Berna Kiril Mert, Coskun Aydiner, Esra Can Dogan
693. Environmental Monitoring of Landfills by a Downsampling Approach. Mei Alessandro, Manzo Ciro, Paciucci Lucia, Allegrini, Alessia, Petracchini Francesco, Romagnoli Paola, Bassani Cristiano

747. Enhancing Soil Productivity through Biochar Application to Heavy Metal Polluted Soil. O. O. Awotoye, Olofinjana Olubukola


03-08 Waste Fuel Site Remediation / 03-09 Waste Recycling

514. Performance of Vegetative Bioretention System for Greywater Reuse in the Arid Climates. Rezaul Chowdhury, Taoufik Ksiksi, Mohamad M A Mohamed and Jameul Abaya


670. Effect of Tire Rubber Ash on Bituminous Mixes Used for Roadway Pavement. Tapash Kumar Roy

695. Struvite Recovery from Wastewater and Reuse as Amendment for Heavy Metals Immobilization in Soil. Hao Wang, Xuejiang Wang, Jing Zhang, Jingke Song


824. Bio-Ethanol from Pretreated Food Waste Hydrolysate Using Immobilized Saccharomyces Cerevisiae under Photo and Dark Fermentation. Martin Gundupalli Pauraj and Debraj Bhattacharya

932. Reuse of Green Walnut Shell to Produce Dye, Ruhsar Arabacıoğlu, Neslihan Doğan-Sağlamtimur and Ersen Turaç

977. Experimental Study on Characterization and Pollution Potential of Contaminated Chromium Hazardous Waste. Xiaohua Yang, Yi Ye, Meishui Li


03-10 Radioactive Waste and Land Pollution / 03-11 Phytoremediation of Organic Pollutants

03-12 Polymer Waste Recycling and Management


738. Enhanced Phytoremediation Using Endophytic Microbes. ANYASI, RO., ATAGANA, HI.

798. Ex-Situ Phytoremediation of Hydrocarbon Contaminated Soil with Crotalaria Pallida Ait. Partha Pratim Baruah, Plabita Baruah, and Suresh Deka

919. Assessment for Removing Multiple Pollutants by Plants in Bioretention Systems Based on ISPA Model. Xiaohua Yang, Yi Ye, Meishui Li


1104. The Potential of Effective Microorganism (EM) to Promote the Phytoremediation of Uranium Polluted Water. Jing Zhu, Ke Chen, Renhua Huang, Xiaoming Chen, Gangxue Luo

1105. Grass and Microbial Combined Remediation to Uranium-Contaminated Soil. Xiaoming Chen, Xuegang Luo, Xichao Hao, Ke Chen
04. Ecosystem Assessment and Restoration

04-1 Ecosystem Assessment

537. Plantation Management and Improvement with No Cost Irrigation Technology for Healthy Environment. \textit{Bhimarao J. Patil}

541. Fertigation Control System Using CAN Based Embedded System. Lad Hiteshkumar J., Joshi Vibhutikumar G., Rameshchandra Makavana

569. The Elbe Estuary: Balance between a High Frequentied Waterway and the Provision of ESS. \textit{Carolin Schmidt-Wygasch}, Uwe Schröder, Elmar Fuchs, Rainer Marggraf, Jan Barkmann, and Uta Sauer


593. Hyporheic Biodiversity and Ecosystem Health of Upper Ganges, Garhwal Himalaya, India. \textit{Ramesh C. Sharma}


703. An Ecological Study of Reproduction in Coringa Mangrove Forest, Andhra Pradesh, India. Prof. Aluri Jacob Solomon Raju


768. Sustainable Housing and Building Performance Assessment Systems. \textit{Deepa G. Nair} and Santhosh John

785. The Environmental Impacts of Wind Farms. Lu Wen, Li-Xin Wang*, Yi Zhuo, Zhi-Bin Jia

792. Novel Taxa Are Dominant in Mangrove Swamp of Niger Delta, Nigeria. \textit{Chika Christiana Nwankwo.}, Gideon Chijioke Okpokwasili

793. Phylogenetic Diversity of Microorganisms in the Mangrove Swamp under Crude Oil Perturbation. Onyinyechika Christiana Nwankwo

794. Bounties of a Bleak Landscape! \textit{Joystu Dutta} and Arun Kumar Roy Mahato


826. Contamination and Risk of Emerging Pollutants in Rapidly Urbanization Coastal Areas along the Bohai and Yellow Seas, China. \textit{Tieyu Wang}, Jing Meng, Pei Wang, Yonglong Lu.

889. Stress Factors to Fish Habitat in Urban Rivers. \textit{Yuta Yamauchi}, Tetsuya Nakata, and Yutaka Sakakibara.


971. The Impact of Different Growth Media on the Algae Development: An Association with Atmospheric Dust. \textit{Adeleh Rashidi}, Aydin Akbulut, A. CemalSaydam

979. Some Risk Assessments at Nuclear Power Plants (NPP). \textit{Alexander Valyaev}, Gurgen Aleksanyan, Alexey Valyaev, Oleg Arkhipkin

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04-02 Nutrients and Functions of Ecosystems


04-03 Restoration of Ecosystems


614. State Transitions and Feedback Mechanisms during Ecosystem Development in the Constructed Catchment ‘Chicken Creek’. \textit{Wolfgang Schaaf}, Christoph Hinz, Werner Gerwin, Markus K. Zaplata, Reinhard F. Huettl

854. Ecosystem Assessment and Restoration. Elvis Obeng Boateng

04-04 Urban Ecosystems

564. Developing Ecological Thermal Indices Based on Satellite Imagery Data. Kim-Anh Nguyen\textsuperscript{1,2}, Yuei-An Liou\textsuperscript{3*}, and Ming-Hsu Li\textsuperscript{1}

656. Causes of Dampness in Residential Building Walls in Jos Metropolis, Plateau State, Nigeria. \textit{Kalada Itelima}
05. Bio-Assessment and Toxicology

05-1 Human Exposure

598. Work Environment Contamination in Oncology Setting: Protection of Healthcare Workers against Antineoplastic Agents. **Maryamalsadat Alehashem**, Shadi Baniasadi and Iman Bahramali


682. Dose Response Curves Derived from Clinical Ozone Exposures Can Inform Public Policy. Sabine Lange, Ge Tao, Lorenz RHomberg, Julie Goodman, Michael Dourson, Michael Honeycutt

706. Mitochondrial Injury-Regulated Joint Hepatotoxicity Induced by Combined Exposure of PCB77 and Cd. **CUI Jiansheng GAO** Yu WANG Lixin

733. Protective Role of Cichorium Intybus against Manganese Toxicity in Liver and Kidney. Ram Prakash


831. Exposure Pathways and Human Health Risk Assessment from Arsenic Exposure in Bangladesh. Tijo Joseph, Brahesh K Dubey and Edward A. McBean


05-2 Bio-response and Ecotoxicology


524. Neurotoxicity of Benzotriazole in Rare Minnow (Gobiocypris rarus) Based on a Proteomic Approach. Neurotoxicity of Benzotriazole in Rare Minnow (Gobiocypris rarus) Based on a Proteomic Approach. **Xuefang Liang**, Jinmiao Zha, Christopher J. Martyniuk

562. Aflatoxin Contamination of Some Edible Grains from Lagos and Ota Markets, Nigeria. Mary Oloyede, **Akan Williams**, and Nskak Benson


694. Therapeutic Efficacy of Andrographis Paniculata on Altered Steroidogenesis and Oxidative Impairment in Ovary of Mice Subjected to Arsenic Intoxication. **Dimple Damore**

723. Toxico logical Assessment of Pharmaceutical Effluent to Clarias Gariepinus (Burchell, 1822). O. A. Eleyele,* and O. T. Aladesanmi


757. Enantioselective Phytotoxicity of y-Hexabromocyclododecane Enantiomers to Maize. **CUI Jiansheng**, LIU Ying, WU Tong
Effect of Length, Weight and Orientation Responses of Earthworms Exposed to Man-Made Electromagnetic Noise. Şükran Yalçın Özdişik, Sevil Yalçın and Rukiye Altas

Assessment of Pollution Biomarker and Stable Isotope Data in Mytilus Galloprovincialis Tissues. Şükran Yalçın Özdişik and Neslihan Demir

Role of Purslane oleracea against Manganese Toxicity in Hepato-Renal Tissues. A. C. Verma

Histological Effects of Bisphenol A on Gill, Digestive Glands and Adductor Muscles of Laboratory-Reared Corbicula fluminea Linn. Kimberly B. Benjamin, Jessmine L. Competente and Dyan Gabrielle H. de Bradham

Developing an Association Network from Proteome Changes to Root Phenotypic Properties for Aluminum Tolerance in Switchgrass. Mahesh Rangu, Zhujia Ye, Theodore W. Thannhauser, Sarabjit Bhatti, Suping Zhou

Acute and Chronic Effects and Multi-biomarker Assessment of Metal Nanoparticles on Carassius auratus. Jun Xia, Guanghua Lu, Jun Hou

Bioavailability and Bio-accumulation


Bioconcentration of Diclofenac in Crucian carp and Its Influence Factors. Guanghua Lu*, Jiannan Ding, and Zhenghua Zhang

Microbiology and Microbial Degradation

Molecular Detection and Characterization of Fusarium sporotrichioides Based on ITS2 rDNA Polymorphism. Ekram A. M. Al-Sanae, Afaf I. Shehata, Ali H. Bakkali, Mohammed Abdou Yahya and Amal A. Al Hassani


Bacterial Community Structure Corresponds To Performance in A Microaerophilic Sulfate and Nitrate Co-Reduction System. Xi-Jun Xu, Chuan Chen*, Ai-Jie Wang, Duu-Jong Lee, and Nan-Qi Ren

Biodegradation of Chlorpyrifos by Microbes Isolated from Agriculture Soil. Tanmaya Nayak*, Tapan Kumar Adhya, Mrutyunjay Suar, and Vishakha Raina.

Increased Enzyme Activity during Antagonistic Invasion Interaction of Fungi Grown on Corn Cob. Grace Nkechinyere Ijoma, Memory Tekere.

A New AHL Molecule Generated by Nitrite-oxidizing Bacteria. Jie Gao, and Guoqiang Zhuang

Down-regulation of MicroRNA-192 Increased Sterol Regulatory Element-binding Protein 1 (SREBF1) Expression in Hepatocytes: a Novel Mechanism for BPA-triggered Hepatic Steatosis. Yi Lin, Dongxiao Ding, Jie Wei, and Sijun Dong

Anaerobic Biodegradation of Para-Toluene Sulfonic Acid, Sulfanilic Acid and Phenol-2-Acetic Acid by the Sulfate Reducing Bacterium Desulfovibrio psychrotolerans, Strain JS1T in Liquid Cultures, Soil and Sludge Microcosms. Sasikala, Ch., Sasi Jyothesna, Ch. V Ramana

Microbial Community Analysis of Anaerobic Digesters during Biotransformation of Nonylphenol Diethoxylate. Fadime Kara Murdoch and F. Dilek Sanin

Quantification of Salmonella in Turkish Biosolids by Culture-Based and Molecular Methods. Begum Aytaç and Robert W. Murdoch.

Evidence of Quorum Quenching and Inhibition of Biofilm Formation in Sphingomonas Spp. Parul Gulati and Moushumi Ghosh


Pectinase from Bacillus subtilis strain Btk-27: Optimization of Cultural Conditions and Application in Coffee Processing. Oliyad Jeilu Oumer* and Dawit Abate

Relation among Triphenyltin Recognition, Degradation, Ion Metabolism and Effective Proteins of Bacillus Thuringiensis. Jinhao Ye and Linlin Wang

Wetlands
06-1 Wetland Conservation

596. Restoration of a Tropical Wetland through Low-Cost Technology. **Shadananan Nair**
666. Spatial Distribution of Wetland Vegetation and its Ecological Function on Riparian Zone of Riverscape. **Lixin Wang**
910. Impact of Urban Sprawling on East Kolkata Wetland and on the Ecosystem Functioning of Sundarbans Mangrove Ecosystem, India. **Susanta Kumar Chakraborty**, Pouliami Sanyal, Nandan Bhattacharyya, Ratnadip Roy and Sumana Bandhopadhayay

06-2 Wetlands for Wastewater Treatment

567. Behavior of Antibiotics with Corresponding Resistance Genes in Constructed Wetland Coupled with Microbial Fuel Cell. **Shuai Zhang** and Hai-liang Song

07. Sediments

07-1 Assessment of Sediments

568. The Elbe Estuary (Germany): Resistance of the Sediments to Hydrodynamic Forces on Microscale. Nina Stoppe, Thomas Neugebauer, Rainer Horn, Uwe Schröder, Elmar Fuchs, and **Carolin Schmidt-Wygasch**.

07-2 Remediation of Contaminated Sediments

626. Distribution of Organochlorine Pesticide Residues in Epipelic and Benthic Sediments from Lagos Lagoon, Nigeria. **Akan Williams**, Nsikak Benson and Egbenya Shaibu-Imodagbe (moved to Session 10-1)
875. Development and Testing of Next Generation Sorbent Polymer Extraction and Remediation from Sediments (SPEARS) Technology. **Robert DeVor**, Phillip Maloney, and Jacqueline Quinn

08. Global Change

08-1 Global Warming and its Impacts

501. Statistically Analysis of Parameters Causing Climate Change at Ikeja and Lagos, Nigeria. **Adenike Boyo** and Aifegha Omokhoa
523. Enhancement of Wastewater Facilities for Long Term Global Climate Changes. **Amirthaganth Amithalingam**, and D. S. Mahamah
586. Energy Security and Climate Change in Southeast Asia (Sea). **Forough Shadman**, Mahmoud Moghavvemi
767. An Integrated Assessment of Low Carbon Emission Scenarios proposed in Climate Policy. Sascha Hokamp and Mohammad Mohammad Khazzabazan
816. Impacts of Climate Changes on the Natural Disasters of Bangladesh. M. A. Sattar
864. Climate Variability and Groundwater Table in the Coastal Region of Bangladesh: A Chronological Analysis. Ratnajit Saha
995. Reducing Global Warming In Africa through Traditional African Architecture: Challenges and the Way Forward. **Iwuagwu, Ben Ugochukwu**; Onyegiri, Ikechukwu; Iwuagwu, Ben Chioma
08-2 Carbon Discharge Reduction

536. The Role of New Discovered Algal Species Ulva paschima Bast and Cladophora Goensis Bast in Reducing Greenhouse Gases. Seema dwivedi

667. Leapfrogging Carbon Capture Sequestration. Adel J. Al-Khalifah

839. Sequestration and Storage Capacity of Carbon in the Mangrove Vegetation of Sundarban Forest, Bangladesh. Towhida Rashid, Sirajul Hoque, Anupa Datta

894. Aerobic and Nitrite-Dependent Methane Oxidizers in the Zoige Wetland of the Tibetan Plateau. Anzhou Ma, Guoqiang Zhuang, Mengmeng Cui

899. Energy Conservation Helps in Mitigation of Adverse Effects of Climate Change. Mehboob Alam Khan

09. Metals

09-1 Metal Distribution


545. Vertical Distribution and Chemical Behavior of Uranium in the Tailings Material of Schneckenstein (Germany). Taoufik Naamoun and Broder Merkel

727. Synergetic Effects of Cd²⁺ and Cu²⁺ on Chlorophyll Fluorescence of Microcystis Aeruginosa. Cui Jiansheng*, Song Yanyan

946. Characteristics of Heavy Metal Pollution from Antimony Mining, Ore Dressing and Smelting Process in China. Mengchang He

1114. Spatial and Temporal Distribution of Heavy Metals in Coastal Red Sea Sediments. Bandar Almur, Andrew Quicksall, Ahmed M. Al-Ansari

09-2 Metal Removal and Remediation


555. An Approach to Decontaminating Chromium Induced Soil with Pilea Cadierei under Amended Monitoring. Agamuthu, P.¹ and Alaribe, F.O.¹

561. Citric Acid Enhanced Metal Uptake in Reed Seedlings in Acid Mine Drainage Solutions. Lin Guo, Teresa J. Cright

600. Assessment of Heavy Metal Bioremediation Potential of Bacterial Isolates from Landfill Soils. Olofinjana Olubukola, O. O. Awotoye and A. O. Oluduro

652. Study on the Adsorption of Zn²⁺ and NH₄⁺-N by Corn cob Biochar. Yan Zhao, Bin-hui Jiang, Liang Li, Ze-hua You

729. Polymer Inclusion Membrane for the Detection of Chromium (VI). Gurijala Ramakrishna Naidu* and Kalyan Yakkala


827. Ameliorative Effects of Rosmarinus officinalis Leaf Extract and Vitamin C on Cadmium-Induced Oxidative Stress in Nile Tilapia Oreochromis niloticus. Promy Virk, Mai Elobeid


927. Silver Recovery: Silver Ion Toxicity. S. Syed


942. Technologies for Reducing Uptake and Transport of Heavy Metals into Rice Grain. Yongchao Liang and Tingqiang Li, Alin Song, Zhaojun Li, and Fenliang Fan, Xionghui Ji


09-3 Speciation, Bioavailability and Accumulation

890. Levels of Heavy Metals in Organs of Oreochromis Niloticus from Great Kwa River, South-East Nigeria

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542. Studies on Effect of Mixed Cropping Technique on the Phytoextraction Potential of Vegetables over Hyperaccumulators. **Tank Shantilal**

**787.** Effect of Selected Heavy Metals on the Germination and Early Seedling Growth of *Jatropha Curcas* (*Linnaeus*). Ogunbanjo O.R., Akintola O.O. and Awotoye O.O.


10. Chlorinated and Other Persistent Organic Compounds

10-1 Characterization of Organic Pollutants


645. Biological and Instrumental Analysis of Emerging Contaminants of Concern: In Single and Multiple Profiling. Momoh A. Yakubu*, Nina Brinkley, Syntia Kwende, Sara Munyu, Chioma Ihemadu, Fatemeh Bidabadi, Bhavin Rena, Joan Tran, Naga Naidu, and Gloria Okome

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848. Bioaccumulation and Trophic Transfer of Tetrabromobisphenol-A Flame Retardant in an Aquatic Food Web. **Jiang-Ping Wu** and Bi-Xian Mai


10-2 Degradation of Persistent Organic Pollutants


621. In-situ Decomposition of Biological Toxins on Nitrogen-Doped Nanostructured TiO$_2$ Films under Solar Radiation. **Hesam Zamankhan Malayeri** and Hyeok Choi

732. Separation of Polybrominated Diphenyl Ethers in Fish for Compound-Specific Stable Carbon Isotope Analysis. **Yanhong Zeng**, xiaojun Luo* and Bixian Mai

819. Dechlorination of DDT and its Products Using Palladized Bacterial Cellulose in a Reactor. **Sumathi Suresh** and Vyjayanthi J. P.


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505. Integrated Water Resources Management in Ghezelozan-Sefidrud Basin in Iran. Keyvan Kimiaie


636. Space/Time Geostatistical Estimation of Chloride along Maryland Rivers Using a Covariance Model with River Distances. Prahlad Jat, Marc L Serre

639. Comparing the Kriging and Bayesian Maximum Entropy Approaches when Estimating Chloride in Maryland Surface Waters Using Censored Data. Prahlad Jat, Marc L Serre

740. Modeling of Spreading of Submarine Mine Tailings in a Norwegian Fjord. Øyvind Leikvin, Venkat Kolluru, Guttorm N. Christensen, Magdalena Kempa, Torolv Tjomsland

12. GIS, Database, and Remote Sensing

12-1 GIS for Environmental Assessment
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938. Ponding of Sarimsakli Basin (Kayseri) and Its Influences on Kültepe Using GIS. İşıl Ömeroğlu, G. M. Vedat Toprak and Fikri Kulakoglu


13. Environmental Analysis and Measurements

13-1 Environmental Analysis

818. Deuterated Monitoring Compounds for Better Accuracy and Precision Measurement of GC/MS Environmental Data. Charles Appleby


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680. Radiosonde Launch under High Surface Wind. Boris S. Yurchak

906. Experimental Study on Stream Flow Measurement Using Large Scale Particle Image Velocimetry Techniques. Aadhi Naresh and M. Gopal Naik

933. The Critical Parameters for How to Address Oil/Hydrocarbon Based Material Spills. Steven Pedigo

821. An Alternative Method to Overcome Inconsistent Cellulolytic Screenings when using Gram’s Iodine. Joshua OHair, Terrance Johnson, Anthony Ejiofor and Suping Zhou
13-4 Environmental Monitoring


1113. Landscape Changes in Lopé National Park, Gabon: To what is the extent of Savannah thickening? Gilbert, Gauci

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14-1. Society and the Environment


644. Public Perception and Acceptance of Fertilizers from Human Urine among Turkish Citizens Holding University Degrees. Ayse D. ALLAR, Nihan YILDIZ-DOGAN, Bilsen BELER-BAYKAL


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859. Implementation of Environmental Laws and Ethics in India. C.V. Rajeswari

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929. Are Energy and Volatile Fatty Acid Recovery Possible from Antibiotic Production Waste Stream? Zeynep CETECIOGLU

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638. Algal Oil Production Potential under Different Municipal Wastewater Delivery Scenarios. Tyler Brown and Yiwen Chiu

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948. Cloning and Characterization of Genes Encoding Cellulolytic Enzymes Screened From Goat Rumen Metagenome. Santosh Thapa, Hui Li, Sarabjit Bhatti, and Suping Zhou
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16-5 Special Energy Development

943. Eco-Economical Non-Conventional Method for Electricity Generation. Seema Vats