# Conference Schedule

<table>
<thead>
<tr>
<th>9-June</th>
<th>10-June</th>
<th>11-June</th>
<th>12-June</th>
<th>13-June</th>
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</thead>
<tbody>
<tr>
<td>Morning</td>
<td>Registration</td>
<td>Plenary Meeting</td>
<td>Platform Sessions</td>
<td>Platform Sessions</td>
</tr>
<tr>
<td>Afternoon</td>
<td>1:00p.m-7:00p.m.</td>
<td>Platform Sessions</td>
<td>Platform Sessions</td>
<td>Platform Sessions</td>
</tr>
<tr>
<td>Evening</td>
<td>7:00p.m. - 9:00p.m.</td>
<td>Poster Session I</td>
<td>Poster Session II</td>
<td>Award Announcement</td>
</tr>
<tr>
<td>7:30a.m. - 6:00p.m.</td>
<td>Registration Exhibition</td>
<td>Registration Exhibition</td>
<td>Registration Exhibition</td>
<td>Registration Exhibition**</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 10

<table>
<thead>
<tr>
<th>Grand Meeting Room</th>
<th>Session Number</th>
<th>Session Title</th>
</tr>
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<tbody>
<tr>
<td>8:00am-11:50am</td>
<td>Session 00-01</td>
<td>Plenary Meeting</td>
</tr>
<tr>
<td>Meeting Rooms</td>
<td></td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 01-09A</td>
<td>Water Quality Assessment/Management</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 01-09B</td>
<td>Water Quality Assessment/Management</td>
</tr>
<tr>
<td>1:30pm-6:05pm</td>
<td>Session 02-02A</td>
<td>Air Quality Assessment</td>
</tr>
<tr>
<td>1:30pm-6:05pm</td>
<td>Session 02-02B</td>
<td>Air Quality Assessment</td>
</tr>
<tr>
<td>1:30pm-6:05pm</td>
<td>Session 03-01</td>
<td>Contaminants in the Subsurface</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 03-02</td>
<td>Natural Attenuation of Contaminants</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 03-03</td>
<td>In-Situ Remediation</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 03-04</td>
<td>Solid Waste Management</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 03-06</td>
<td>Landfill</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 05-01</td>
<td>Human Exposure</td>
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<tr>
<td>1:30pm-6:05pm</td>
<td>Session 05-02</td>
<td>Bio-response and Ecotoxicology</td>
</tr>
<tr>
<td>Poster Room</td>
<td>7:00pm-9:00pm</td>
<td>Poster Session I</td>
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### Wednesday, June 11

<table>
<thead>
<tr>
<th>Meeting Rooms</th>
<th>Session Number</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-14A</td>
<td>Adsorption/Desorption for Wastewater Treatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-14B</td>
<td>Adsorption/Desorption for Wastewater Treatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-14C</td>
<td>Adsorption/Desorption for Wastewater Treatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-10B</td>
<td>Nitrogen-Phosphorus Wastewater Treatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-01</td>
<td>Aerosol</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-02C</td>
<td>Air Quality Assessment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-03</td>
<td>Transport of Air Pollutants</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-04</td>
<td>Waste Gas Control Techniques</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-05</td>
<td>Air Pollutant Monitoring</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-06</td>
<td>Hazardous Gas Biofiltration Treatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-07</td>
<td>Catalysts for Reducing Emission</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-08</td>
<td>Fuel Gas DeSOx, DeNOx, and Metal Removal</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-09</td>
<td>Air Pollution Prevention and Management</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 02-10</td>
<td>Noise</td>
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<tr>
<td>Time</td>
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<td>Topic</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 03-03</td>
<td>In-Situ Remediation</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 03-05</td>
<td>On-site and Off-site Remediation</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 03-07</td>
<td>Permeable Reactive Barriers</td>
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<td>Session 03-08</td>
<td>Waste Fuel Site Remediation</td>
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<td>8:00am-6:05am</td>
<td>Session 03-09</td>
<td>Waste Recycling</td>
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<td>8:00am-6:05am</td>
<td>Session 03-10</td>
<td>Radioactive Waste and Land Pollution</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 03-11</td>
<td>Phytoremediation of Organic Pollutants</td>
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<td>8:00am-6:05pm</td>
<td>Session 03-12</td>
<td>Polymer Waste Recycling and Management</td>
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<td>8:00am-6:05pm</td>
<td>Session 04-01A</td>
<td>Ecosystem Assessment-A</td>
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<td>8:00am-6:05pm</td>
<td>Session 04-01B</td>
<td>Ecosystem Assessment-B</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 04-02</td>
<td>Nutrients and Functions of Ecosystems</td>
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<td>8:00am-6:05pm</td>
<td>Session 04-03</td>
<td>Restoration of Ecosystems</td>
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<td>8:00am-6:05pm</td>
<td>Session 04-04</td>
<td>Urban Ecosystems</td>
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<td>8:00am-6:05pm</td>
<td>Session 09-01</td>
<td>Metal Distribution</td>
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<td>8:00am-6:05pm</td>
<td>Session 09-02</td>
<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>Session 09-04</td>
<td>Phytoremediation</td>
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<td>Session 05-01</td>
<td>Bio-response and Ecotoxicology</td>
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<td>Session 05-02C</td>
<td>Bioavailability and Bio-accumulation</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 05-03</td>
<td>Microbiology and Microbial Degradation</td>
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<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 01-02</td>
<td>Watershed Management</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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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-04</td>
<td>Groundwater</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 08-02</td>
<td>Carbon Discharge Reduction</td>
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<tr>
<td>7:00pm-9:00pm</td>
<td>Poster Room</td>
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**Thursday, June 12**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
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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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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-05</td>
<td>Non-point Sources</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-06</td>
<td>Wastewater Discharge Management</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-07</td>
<td>In-situ Measurement an Monitoring</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 10-10</td>
<td>Characterization of Organic Pollutants</td>
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<td>8:00am-6:05pm</td>
<td>Session 10-11</td>
<td>Degradation of Persistent Organic Pollutants</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-15</td>
<td>Municipal Wastewater Biotreatment</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 01-16</td>
<td>Municipal Wastewater Biotreatment</td>
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<td>8:00am-6:05pm</td>
<td>Session 01-17</td>
<td>Physico-chemical Wastewater Treatment</td>
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<td>8:00am-6:05pm</td>
<td>Session 08-01</td>
<td>Global Warming and its Impacts</td>
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<td>Session 15-01</td>
<td>Environmental Quality and Planning</td>
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<td>Session 15-02</td>
<td>Energy-related Environmental Problems</td>
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<td>Session 16-01</td>
<td>Water Energy Nexus</td>
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<td>8:00am-6:05pm</td>
<td>Session 16-02</td>
<td>Wind Energy</td>
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<td>8:00am-6:05pm</td>
<td>Session 16-03</td>
<td>Solar Energy</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 16-04</td>
<td>Bio Fuels (Methane, Ethanol, ...)</td>
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<td>8:00am-6:05pm</td>
<td>Session 16-05</td>
<td>Special Energy Development</td>
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<td>Session 06-01</td>
<td>Wetland Conservation</td>
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<td>Session 06-02</td>
<td>Wetlands for Wastewater Treatment</td>
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<td>Session 07-01</td>
<td>Assessment of Sediments</td>
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<td>Session 07-02</td>
<td>Remediation of Contaminated Sediments</td>
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<td>Session 13-01</td>
<td>Environmental Analysis</td>
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<td>8:00am-6:05pm</td>
<td>Session 13-02</td>
<td>Field Measurement Technologies</td>
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<tr>
<td>8:00am-6:05pm</td>
<td>Session 13-03</td>
<td>New Method Applications</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 10 and 11)
(Only presenters are listed, while some co-authors are not included)

Plenary Meeting

1001. Hydraulic Fracturing, Water Conservation and Environmental Protection. Dr. Davis L. Ford (Adj. Prof., University of Texas at Austin, Member of NAE, USA)
1002. Climate Change - The Quantifiable Sustainability Challenge. Director Frank Princiotta (APPC Division, USEPA, USA)
1003. Development of a PV-Powered Electrochemical Wastewater Treatment System. Prof. Michael R. Hoffmann (California Institute of Technology, Member of NAE, USA)
1004. Aerobic Sludge Granulation: Current Perspectives, Advances and the Way Forward. Prof. Joo-Hwa Tay (University of Calgary, Canada)

01. Water Pollution and Water Quality Control

01-01 Rivers, Lakes and Estuary Systems

783. Evaluation on Eco-security of Water Resources and Regulating & Control Mode of Environmental Planning for Lake Basin --- A Case of Taping Lake, Anhui Province, China. Xiangrong Wang
872. Turbulence Hydraulics near Piano-Key Weir. Harinarayan Tiwari, Nayan Sharma
01-02 Watershed Management

375. Towards Effective Public Participation in Water Resources Management: Issues and Approaches in Turkey. **Aysegul Tanik**

666. Trends in Nutrient Concentrations and Loading from Coastal Streams: Relations to Changes in Land-Use. **Amanda L. Moss**, Mustafa Mokrech, George Guillen


990. Sustainable or Green Water Management Practices by South African Mining Companies. **Mbofho Stanley Liphadzi** & Andre Vermaak

01-03 Water Resources and Assessment

319. Study of Thermal Stratification in Reservoirs - A Case Study at Gotvand Dam. **Keyvan Kimiaie**, Afshin Jahangirzadeh


336. Assessment and Source Identification of Heavy Metals in Selected Pond and Stream Water and Sediment from Ilesha, Osogbo and Yakoyo, Osun State, Nigeria. **ALADESANMI Omolara Titilayo**

338. Crude Palm Oil Production: Environmental Impacts Assessment of Freshwater Consumption Using LCA Approach. **Zainura Zainon Noor**, Noor Salehan M. Sabli, Che Hafizan Che Ahmad

357. The ART In-Well Technologies, Re-Engineering Existing Remedies to Reduce Time, Costs & Risks. **MOHAMED ODADH**


650. Green Gross Regional Domestic Product of Hotels in the City of Medan Based on Dynamics System and Sustainable Water Resource Conservation. **SUKARDI**


709. Life Cycle Assessment of Regional Freshwater Consumption. **Jia-Yu Lin** and Pei-Te Chiueh.

735. Progress on the Research of Flood Routing under the Effect of Seepage in Seasonal Streams. **Wu Guizhi**, Li ningning and Wu Zhouhu

747. Long Term Trends in Nutrients and Primary Production in Galveston Bay, Texas. **George J. Guillen**, Mustafa Mokrech, Jenny W. Oakley

751. Expected Storm Surge Levels along the US East Coast using Meteorological and Historical Sea Level Data. Laramie V. Potts, **John B. Miima**, Zayibeth Carballo


870. Stormwater & Treated Wastewater Reuse through Aquifer Storage & Recovery Wells. **Gregg R. Strakaluse**

914. The Case for a New Paradigm for Water Purification, Wastewater Processing, and Wastewater Effluent Recycling. **Alan M. Weiss**


1014. Reinforcement of the Soil with Poor Geotechnical Properties under Water-Conveyance Canals Lining for Controlling Erosion and Sedimentation. **Farhad F. Raof**

1057. Assessment of Groundwater Recharge Using Water-Table Fluctuation Method and Water Balance Model. **Sasmita Sahoo**, Madan K. Jha

1072. Evaporation Reduction Based Design of Water Ponds surface Areas Using Palm Frond. **Ibrahim Elsebaie**

1076. Hydraulic Fracturing: A Look at Efficiency and the Environmental Effects of Fracking. **Emily C Jackson** and David E Dismukes.

01-04 Groundwater

393. Correlations between Chlorinated Aliphatic Hydrocarbons and Environmental Variables in a Contaminated Groundwater in Shanghai, China. **Lu Qiang**, Li Hui, Lin Kuang Fei, and Liu Yong Di
761. Interactions of Arsenic Desorption and Indigenous Bacterial Activity in Shallow Groundwater System. Zuoming Xie, Guangming Ouyang, Xiaoyan Sun, Dong Yang, Yanxin Wang
823. Residues of Veterinary Antibiotics in Environmental Waters in Central Jianghan Plain, China. Tong Lei, Wang Yanxin, Liu Hui, Li Minjing
945. Prediction of County-level Contamination Exceeding Rate from Groundwater Sampling Data through Intelligent Data Dependent Modeling. Qing Li, Fengxiang Qiao, Lei Yu

01-05 Non-point Sources

1025. Atmospheric Reactive Nitrogen Deposition onto Coastal Regions of China. Xiaosheng Luo and Xuejun Liu

01-06 Wastewater Discharge Management

635. The Study of Destructive Effects of Wastewater Caused by the Activities of leather Manufacturing Factories in Tehran. Shobeiri Seyed Mohammad, Kavez Behrouz, Shotorbani Azarmir Marjan, Alireza Bassirij, Nazari Batoul
639. Theoretical Analysis of Pollutant-Mixing Zone for Rivers with Variant Lateral Diffusion Coefficient. Zhou-hu Wu, Wen Wu

01-07 In-Situ Measurement and Monitoring

330. Antibiotic Resistant Patterns of Enterobactriaceae Isolated from Municipal Wastewater and Cephalosporin Production Wastewater. Xin Yu, Jiane Zuo, Xinyao Tang and Zaixing Li
708. Factors Affecting the Performance of a Newly Developed Mobile Hybrid BMP. Jean Margaret R. Mercado, Marla c. Maniquiz-Redillas, Lee Hyung Kim
714. Monitoring of Cyanotoxin and T&O Compound Producing Cyanobacteria in Drinking Water Reservoirs using qPCR Method. Tsair-Fuh Lin, Yi-Ting Chiu, Hung-Kai Yen

01-08 Drinking Water

303. Risk of N-nitrosodimethylamine (NDMA) in Drinking Water: Comparison with Different Exposure Scenarios. Shakhawat Chowdhury
818. Sustaining Safe Drinking Water Supply in Developing Countries: Lebanon Case Study. Mey Jurdi
857. Biological Desalination of Seawater Using Marin Microalga Scenedesmus sp. and Chlorella vulgaris. E. Sahle-Demessie, Ashraf Aly Hassan, Amy Zhao
897. Analysis for Atmospheric Water for Drinking. Qing XIA and Shu GENG
919. Source Water Protection for Drinking Water Production: A European River Memorandum. Peter G Stoks and Ina Brüning
923. The Hydro-Geology and Drinking Water Quality of Ikogosi Warm Spring in South West Nigeria. Akinola Mayowa Ikudayisi, Josiah Adeyemo
950. Community Water Supply and Treatment Project in Cameroon: Chlorinator Design and Development. Kristen Chorney and Sam Miller
01-09 Water Quality Assessment/Management


748. Development of Ecological Classification System for Texas Freshwater and Estuarine Fishes. George J. Guillen, Stephen G. Curtis


892. Effect of Bamboo Biochar on Fertility and Nutrient Leaching of a Sandy Pear Orchard Soil in Southeast China. Lou Liping, George A. Sorial

01-10 Nitrogen-Phosphorus Wastewater Treatment

641. Simultaneous Removal of Ammonia and Nitrate by Electrolytic Decomposition as Tertiary Wastewater Treatment. Jing Ding, Qingshang Zhao, Wei Li, and Kun Wang.


681. Decontamination of Phosphorus from Aqueous Solutions Using Bi-Metal Loaded Okara. Thi An Hang Nguyen, Huu Hao Ngo, and Wenshan Guo


889. Anaerobic Oxidation of Ammonium Coupled to Electricity Production in a Microbial Electrolysis Cell. Bo Qu and Bin Fan.
01-11 Sludge Treatment

805. Enhancement Production of Pure L-lactic Acid from Food Waste and Sludge. Xiang Li, Qiwei Jian, Yingguang Chen
881. Compost Bioremediation of Oil Sludge by Using Different Manures under Laboratory Conditions. Ubani O., Atagana H. I. and Thantsha M. S.
896. Effect of Acid Treatment on Sewage Sludge Derived Carbons for Catalytic Wet Peroxide Oxidation. Yang Yu, Huangzhao Wei, Yamin Wang, Li Yu, Wentai Jiang, Songbo He, Chenglin Sun

981. Sludge Settling Problems and Control in Some United States Treatment Plants, D. S. Mahamah, and A. Amirthalingam
984. Improvement Anaerobic Digestion performance of Sewage Sludge by Co-digestion with Cattle Manure. Raouf HASSAN

01-12 Municipal Wastewater Biotreatment

331. Absorption Capability Examination of Heavy Metals by Spirogyra Alga in Water Treatment Plants (Case Study: Ahwaz Water Treatment Plant, Iran). Farzaneh Fakheri Raof, and F. Zobeidizadeh
608. Advanced Onsite Wastewater Treatment System Solutions in Difficult Site Conditions. Alfonso Blanco, Allison Martin, David Casalsetto, Gopala Borchelt
706. Life Cycle Assessment of a Municipal Wastewater Treatment Plant- A Case Study in Kinmen, Taiwan. Huan-Yu Shiu and Pei-Te Chueh.
758. Evaluation of Bacteria and Metals in Sewage Dump Site in Jos-Nigeria. Yakubu, Juliet M, Agarry, Olaitan O
807. The Effect of EPS on Mixed Liquor Characteristics and Membrane Fouling in UCT-MBR Process. Qiongyuan Dong, Xianyang Xu, Xin Dai, Junhong Zhou and Guohong Yang

01-13 Industrial Wastewater Biotreatment

763. Biodegradation of Crude Oil by Fungi Isolated from Gulf of Mexico. Hussein Al-Nasrawi
798. Pollution Control through Industrial Waste Water Treatment Centrally of Industrial Cluster Zone in Bangladesh: First and Model Initiative. Md. Hashibul Islam, Farzana Ahmammad and Sharmin Ahmed
916. The Application of Nitrification-Denitrification Process to Enhance Treatment Efficiency in Livestock Wastewater. B. S. Lee, S. S. Ton
933. Refinery Wastewater Treatment: A Challenge towards Zero Liquid Discharge. Farid Benyahia
1043. Examining Process Wastewater Treatment and Grey Water Footprint of Biofuel Produced via Fast Pyrolysis and Hydrotreating. May Wu
1080. Effects of Zinc on Germination, Seedling Growth and Nutrient Contact of Rauvolfia Serpentine. Milvee K. Vyas, Kailash Patel, Parimal Patel


400. Adsorption of Sulfamonomethoxine on Immobilized Cucurbituril. Yun Liu, Tao Jin, Yuan-hua Dong and De-Qiang Chen


638. Removal of Diclofenac Sodium and Carbamazepine from Water by Regenerable Granular Carbon Nanotubes/Alumina Adsorbents. Shubo Deng, Haoran Wei, Bin Wang, Jun Huang, Gang Yu


651. Selective Adsorption of Lead (II) Ions by Manganese Dioxides Loaded Adsorption Resin. Ying Xiong, Huchun Tao, Xuemei Lu, and Jinren Ni.

660. Removal of Chromium (VI) by Ethyl Cellulose Treated with Polyaniiline. Bin Qiu, Zhanhu Guo, Cuixia Xu, Suying Wei


680. Characterization and Absorption Behavior of Ammonia and Methylene Blue by Biochar Derived from Common Reed. Lun Lu, Fengmin Li, and Zhi Liang.


785. Evaluation of Ibuprofen Adsorption/Desorption Efficiency onto Non-Conventional Activated Schummannianthus Dichotomus Carbon: Kinetic and Thermodynamic Assay. Ruhul Ami Reza and M. Ahmaruzzaman


846. Ion Exchange/Adsorption/Desorption To Recover Nutrients from Conventional and Segregated Streams of Domestic Wastewater for Further Use as Fertilizer. Bilsen BELER BAYKAL

861. Elucidating the Role of Phenolics in the Effectiveness of DOM Adsorption on Activated Carbon. Liang Yan and George. A. Sorial


992. Haematology of Catfish Exposed To Carbonized and Ensiled Corn Cob Adsorbents Treated Tannery Wastewater. Jatau-Emeagha, Glory Ladidi and Ibu, Alexander Awo


1024. Biosorption of Heavy Metals from Aqueous Solution by Bacteria Staphylococcus aureus & Bacillus spp. Patel Ritixa, Tank Shantilal

1029. Removal of Chromium Cr(VI) From Wastewater Using Saudi Activated Bentonite. SAAD AL-SHAHRANI (moved to Session 01-15)


01-14 Adsorption/Desorption for Wastewater Treatment


671. Demonstration of Self-contained Electrochemical System for Treatment of Toilet Wastewater. Kangwoo Cho, Yan Qu, Clement A. Cid, Michael R. Hoffmann

01-15 Physico-chemical Wastewater Treatment
839. Optimization of Electro Dialysis Cell for Desalinizing Brackish Water. Naglaa Eid
843. Removal of Pharmaceuticals and Personal Care Products (PPCPs) by a Novel Electrochemical Advanced Oxidation Process. Eiji Kawada*, Toshiki Ushio and Yutaka Sakakibara
895. Development of a PV-Powered Electrochemical Wastewater Treatment System. Michael R. Hoffmann, Kangwoo Cho, Clement Cid, and Qu Yan
931. Efficient Dechlorination of 2,4-Dichlorophenol in An Aqueous Media Using a Pd/TiO2NTs/Ti Cathode. Jiangkun Du and Jianguo Bao
977. Preparation and Characterization of PVC/PEG1000 Hybrid Ultrafiltration Membrane. Xiangru Song, Fangbo Zhao, Xiaoyang Liang, Zhenjiang Yu
988. Treatability of Aqueous Alcohol Ethoxylates Solution by Electrocoagulation and Coagulation. Çisem Ecer, İlk Kabdaşlı, Olcay Tümay, Tuğba Ölmez Hancı.
1029. Removal of Chromium Cr(VI) From Wastewater Using Saudi Activated Bentonite. SAAD AL-SHAHRANI
1054. Chromium(VI) Removal by a Fe-Mn Binary Oxide with and without H2O2. Si-Hyun Do and Yong-Jae Kwon

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617. Carwash Wastewater Treatment by Electrocoagulation Using Response Surface Methodology. Seyyedali Mirshahghassemi, Kamelia Afshinnia, Behnoush Aminzadeh, Ali Torabian
678. Chromium Removal from Metal Plating Wastewater by Electrocoagulation Using Response Surface Methodology. Kamelia Afshinnia, Seyyedali Mirshahghassemi, Mohsen Saeedi
858. Continuous Treatments of Estrogens through Polymerization and Regeneration of Electrolytic Cells. Vo Hvu Cong, Sota Iwaya and Yutaka Sakakibara
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750. Using Persulfate Activated by an Emplaced Zone of Iron Nanoparticles to Treat a Trichloroethylene Source Zone. Mohammed A. Al-Shamsi, Neil R. Thomson
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765. Applications of Nanotechnology in Water and Wastewater Treatment. Arezoo Nejaei and Bahram Ghafoory
784. Mathematical Simulation of Nano Sized Aluminum Phages to Purify Water. V.K. Katiyar and Rohit Agarwal
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879. Synthesis of Polymer/LDH Nanocomposites Using a Solvent Mixing Method: Thermal and Melt Rheological Properties. Yanshan Gao, Qiang Wang
936. Preparation of a Novel Magnetic Nanoparticle Adsorbent and Its Adsorption Behavior of Arsenic in Groundwater. **Shuqiong Kong**, Yanxin Wang, Qinong Hu and Abass K. Olusegun

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949. Electrochemical Characteristics of Hybrid MWCNTs and GNP s with Different Surface Morphology. **Yanping Cui**, Yu Zhu, Yaohui Wang, Yanyan Qin


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02-02 Air Quality Assessment


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397. Intra-urban Spatial and Temporal Comparison of Fine and Quasi-Ultrade fine Particles in Houston TX. **Yuncan Guo**, Masoud Afshar, and Inkyu Han


787. Air Pollutant Watch List of Texas – Port Arthur Example. **Tara Capobianco**, Ross Jones, and Darrell McCant


854. Source Apportionment of Indoor PM₂.₅ at Santiago, Chile. **Héctor Jorquera** and Francisco Barraza.

874. Assessing the Health effect of Urban Indoor air Quality in relation to Living Standards of people in Lucknow Region. **Alfred Lawrence**, Nishat Fatima and Jamson Masih


950. Potential health impact of RF Radiation on Riggers in Telecommunication Industry in Ghana. **Owusu Akyaw Kwarteng** and Lydia Michelle Tawiah

971. Atmospheric Carcinogenic Polycyclic Aromatic Hydrocarbons in Houston, TX, USA: Pine Needles as Passive Samplers. **Sharmila Bhandari**, Hyun-Min Hwang

972. Effectiveness of Low Emission Zones: Analysis of the Changes in Fine Dust Concentrations (PM₁₀) in 19 German Cities. **Peter Morfeld**, David.A. Groneberg, and Michael Spallek
920. A Comparative Study of Economic Evaluation Methods on PM2.5 Health Impact. Hao Yin, Linyu Xu
927. Quantification of the Pollution Level of Ambient Polycyclic Aromatic Hydrocarbons and Levoglucosan in a Residential Area in Winter. Jiexia Zheng, Gunter Baumbach and Bertram Kuch
946. Impacts of Vehicle to Infrastructure Communication Technologies on Vehicle Emissions. Qing Li, Fengxiang Qiao, Lei Yu
948. A GIS-Based Spatial Analysis of Air Pollution in Nanning. Bo Wei, Fengxiang Qiao, Zhihu Huang, Juan Ma, Lei Yu
962. Prediction of Pollutant Concentration through the Consolidation of Multiple Air Dispersion Models Using a Superensemble. Shou-Yuh Chang and Frank Gronwald
967. Effects of Quarry Operation Processes to Air Quality in Istanbul Cebeci Zone According to PM$_{10}$ Emissions, Kadir Alp, İsmail TORÖZ, Edip Avşar, Ezgi Erdoğan, Banu Özlem, İlker Akmirza
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314. Source Apportionment of Selected Heavy Metals in Aerosol Samples Collected from Sebele, Botswana. Alfred S. Likuku, Gilbert K. Gaboutioeleo and Khumoetsile B. Mmolawa
908. Study on an Ozone Episode over the Pearl River Delta, China. Jin SHEN, Hao CHEN, XueSong WANG, JinFeng LI, Wei LV, YuanHang ZHANG, Luan Yuan, Liuju ZHONG
1077. Impacts of East Asian Summer Monsoon on Interannual Variations of Surface-Layer Ozone Concentrations over China, Hong Liao, Yang Yang, and Jianping Li

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809. Bioremediation of Landfill Methane using Brewery Spent Grain as a Biocover. Siva Shangari Govindan, Agamuthu, P.
828. Experiment Study of Effect of Molten Salts on Raw Syngas Gas Composition. Wang Xiaobo, Zhao Zengli, Liu Anqi, Li Haibin, Chen Yong
859. Treatment of Mixture of n-Hexane, Benzene, and Methanol in an Integrated Scheme of Cyclic Adsorption/Desorption Beds and Trickle Bed Air Biofilter. Abderrahman Zehraoui and George A. Sorial
862. Removal of Chloroform as a Model Trihalomethane in the Presence of Co Metabolite and / or Surfactant by Using Anaerobic Biotrickling Filter, Bineym Mezgebe, George Sorial, E. Sahle Demessie and Ashraf Aly Hassan

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677. Daily and Seasonal Variations of Volatile Organic Compounds and Carbonyls in the Atmosphere of Monterrey, Mexico. H. Lizette Menchaca and Alberto Mendoza
831. Emission of Carbonaceous Pollutants from Biomass and Coal Burning Sources in Rural China. Yisheng Zhang, Min Shao, and Shengji Luan
871. Particulate Matter and Polycyclic Aromatic Hydrocarbons at Urban and Rural Location in Agra, India. Jamson Masih, A. J. Lawrence and Ajay Taneja
930. The Detection of Fog in the Three Gorges Reservoir Channel Using FY3 Satellite Data. Mandi Zhou, Shihua Qi, and Zhenghong Chen
947. Vehicle Emission Estimation while Picking up Passengers at Airport Terminals. Larry Hill, Fengxiang Qiao, Keziah Hill, Lei Yu
964. Effective Approaches for Public Communication of Air Quality Results from Two Environmental Dredging Projects. Scott Manchester and Matt Traister
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685. Super Activity and Mechanism of NH$_3$-SCR of NOx on Ce-W Metal Oxide Catalysts. Junhua Li, Yue Peng, Jiming Hao
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736. Experimental and Kinetic Modeling of NOx Reduction with C$_3$H$_6$ over Cu-SSZ13 Monolithic Catalyst. Richa Raj, Michael P. Harold and Vemuri Balakotaiah
841. Catalytic Ozonation of Gaseous Benzene Using MnOx/ZSM-5 at Ambient Temperature, Haibao Huang, Xingguo Ye, Peng Hu, Huiling Huang, Jiandong Chen and Ying Xu
886. Au/3DOM Mn$_2$O$_3$: Highly Active Nanocatalysts for the Oxidation of Carbon Monoxide and Toluene. Shaohua Xie, Jiguang Deng, Huanggen Yang, Yang Jiang, Wei Tan, Wen Han, and Hongxing Dai
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1050. Why Silver/Mesoporous Silica Catalyst is Unique for CO and HCHO Catalytic Oxidation Elimination? Zhenping Qu, Dan Chen and Xiaodong Zhang

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887. Development of Low Cost and Environment Friendly New Alternative for Portland Cement, Noor ul Amin, Saeed Gul, Sultan Alam
972. Charactering Air Pollutant Effects Caused by Extra Commuting Time due to Housing Price Factor. Ling Liu, Fengxiang Qiao, Lei Yu

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905. Leaching Comparisons of Selected Mississippi Soils Contaminated with Organic and Inorganic Wood Preservatives. Kevin Ragon, Hamid Borazjani, and Saeed Keshani Langroodi and Susan V. Diehl
951. Design of Waste Pond of an Educational Institute, A. K. Singh
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877. Phytotreatment of Polychlorinated Biphenyls Contaminated Soil by Chromolaena Odorata (L) King and Robinson. Raymond Oribe Anyasi, Harrison Ileanyichuku Atagana.

1073. The Development and Characterization of an Enriched Microbial Culture for Bioremediation of Petroleum Contaminated Soil. Sheldon Ramoutar, Adesh Ramsubhag, Azad Mohammed (moved to 05-04).


1095. Evaluation of Soil Screening Levels due to Accidental Ingestion of PAHs at TOR Site. Saeid Gitipour, Saeid Firouzbakht, Ehsan Mirzaee and Masoumeh Alimohammadi.

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928. Approach Cartographic of Solid Waste in Ngor (Dakar/Senegal). Ramatoulaye MBENGUE, Awa DIOUF SYLLA, Amadou Tahiou DIAW, Mame Demba THIAM.


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1074. Evaluation of 2,4,6-Trinitrotoluene Degradation by Free Cultures of Acinetobacter noscomialis Isolated from a Contaminated Site, **Pritam Sangwan**, S. Mary Celin and Lakshmi Hooda

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03-09 Waste Recycling

351. Viability of Using Cement Stabilized Recycled Asphalt and Concrete in Pavement. **Hasan Taherkhani**
352. Evaluation the Properties of Asphalt Concrete Containing Recycled Brick and Glass Powder. **Hasan Taherkhani**
353. Investigating the Properties of Cement Stabilized Recycled Brick and Concrete. **Hasan Taherkhani**
820. Estimation of the Compressive Strength of High-Strength Concrete with Recycle Aggregate using Ultrasonic Pulse Velocity Method. **Yong-Taeg Lee**, Seung-Hun Kim and Seong-Uk Hong
979. Biomethanated Distillery Spentwash as a Source of N and K Nutrients to Crops. **P. Thangavel** and P.Latha
1020. Application of Material Flow Analysis to Evaluate the Current Status and Potential Recycling of Waste Rubber Tires in Viet Nam. **Thai Van Nam**, Ho Hong Hanh

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305. Emotions Are the Life Line of HR Capital at Areas in Special Reference to CIL-A Case Study. Gopal Singh, **R. N. Tripathi**, Poulomi Musib, Pramod Pathak

316. Assessment of γ-radiation levels and Associated Dose Rates from Surface Soils in the Eastern Part of Botswana. **Alfred S. Likuku**, Narengudi Karunakara and Gothamatang Patrick Nthoiva

326. Wild Life is No More Wild Life vis-à-vis Monkeys & Human Resource of Coal Miner COAL INDIA LIMITED – A Case Study. **Gopal Singh**, R N Bishwas, UT Kanzkarak, Poulomi Musib, Satya Ranjan Tripathi, R N Tripathi

327. Study of Ecosystem Oriented Ichthyo-Avian Species Diversity and Their Interaction in the Wetlands of Assam. **Sultana Hazarika**, and Dr. P.K. Saikia.


341. Study of the Fisheries Potential in Wetland Ecosystem of Brahmaputra Valley Corridor. **Sultana Hazarika**, and Dr. P.K. Saikia

345. Evaluation of the Operational Performance of a Rain Garden. Ricardo Prado Abreu Reis, **Marina Sangoi De Oliveira Ilha**

348. Household Biogas Plants Enhance Ecology in India’s Drylands. **Govindasamy Agoramoorthy**


379. Using CCA for the Assessment of Vivaciousness Ability of Viable Herbaceous Plants in Gatwala Forest Park, Pakistan. **Sheikh Saeed Ahmad**

384. AMIT (Affordable Micro-Irrigation Technology) - A Novel Technique for Reviving Sericulture in Drought Stricken Chamarajanagar. **K. Srikantaswamy**, Bharath Bhushan Bindroo

602. Effect of γ-Irradiation on Development of Barley Seeds in Early Stages of Ontogeny. **R.S. Churyukin**, S. A. Geras’kin

607. Achieving Electricity Performance Excellence for Pollution Prevention & Environmental Quality. **Kurt Yeager**, John Kelly

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696. The Technology of Artificial Plants and Its Treatment Efficiency for Wastewater. **Qingfeng Chen**, Junjian Ma, Hongyan Yang and Wenguo Dong


753. Multipurpose Cadastre for Asset Management and Risk Assessments. **John B. Miima**, L. V. Potts, B. Datta

760. Two Halosphaeria Species Isolated from Different Lentic Habitats. **Hussein Al-Nasrawi**


793. Mathematical Simulation of “Phytocenosis-Soil” System Condition. Tatiana Trifonova, **Natalia Mishchenko** and Leonid Shirkin


880. Ecological Geochemistry of Contaminated Soils: Theory and Methods. **Qixing Zhou** and Xin

909. The Contribution of Multi- functional Peri-Urban Agriculture Areas for Sustainable Urban Planning in Case of Kathmandu Valley. **Shreema Rana** and Junun Sartohadi


978. Modeling Sustainable Building Construction for Optimal Use of Natural Resources. **Samir Bajpai** and Manish Sakhlecha

1030. Ecological Capability Evaluation of Environment (Case Study: Khajeh Forest Protected Area, Iran). **Tahereh Soleymani Angili**

1034. Environmental Impact of Dredging Activities in the Niger Delta Freshwater Ecosystem. **Seiyaboh, Enetimi I.**

1035. Relationship between Vegetation and Bird Community in Arid System of Lakhpat, Kachchh, India. **Jagruti Rathod**, Deepa Gavali, Sonal Deshkar, Amita Sankhwal

1088. On Development of Hyperbolic Nonlinear Growth Models for Application in Life Sciences and Environmental Studies. **Samuel Oluwafemi OYAMAKIN** & Angela Unna CHUKWU

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913. Ogoni Restoration Project: SPDC’s Commitment towards Sound Corporate Environmental Governance in the Niger Delta, Nigeria. Igbuku Augustine, Shekwolo Philip, Igbodo Franklin, Nuka Hope & **Mmom, Prince C.**

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322. Role of NAD(P)H Oxidase in Acrolein-induced Stress. **Sedigheh Heydari**, Zivar Yousefipour, Mohammad Newaz
326. Wild Life is No More Wild Life vis-à-vis Monkeys & Human Resource of Coal Miner COAL INDIA LIMITED – A Case Study. **Gopal Singh**, R N Bishwas, UT Kanzarkar, Poulomi Musib, Satya Ranjan Tripathi, R N Tripathi (moved to 04-01)
344. Antioxidative Metabolic Changes in Liver and Brain Tissues of Albino Rat on Induced Ammonia Stress. A. Shobha Rani and **P. Neeraja**
377. Evaluation of the Thyroid Disrupting Effects of Water form Guanting Reservoir, Beijing. **Jian Li**, Jinsheng Wang, Rui Zuo, Haiyang Chen, Yuanzheng Zhai and Jie Yang
665. Determination of Perfluoroalkyl Substances (PFASs) in Urine by Liquid Chromatography Mass Spectrometry (LC-MS/MS). **Ivana Kosarac**, Cariton Kubwabo, Kaela Lalonde, Warren G. Foster
668. Detection of Oxidative Stress Induced by Aluminum. **Nicoleta Taus**, Stefania Tanase, Main Farraj, Aurel Mironescu, Mus ab Farraj and Laurian Taus, Monica Boicu, Valentin Necula
838. Influence of Melatonin on Arsenic Mediated Pancreatic Damage in Swiss Albino Mice. **Dimple Damore**
1026. Effect of Calcium Supplementation on Lead-Induced Genotoxicity and Bioaccumulation in Suckling Wistar Rats. **Promy Virk** and Wedad Saeed Al-Qahtani.
1059. Protective Role of either Ginger or Lipoic Acid in Senile Female Rats. **Nadia Mohamed Said Arafa** and Elham H.A. Ali

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323. Impact of Palm Oil Mill Effluent on Antioxidative Parameters in Maize (zea mays l.). **Christopher Chijindu Osabor**, Ehibbai Oikeh
632. Further Studies on the Ibuprofen Genotoxicity in “Oreochromis niloticus” (Tilapia). Any Caroline Batista de Andrade, Graziela Sponchiado, Mônica Lúcia Adam, Eliane Carvalho de Vasconcelos, and **Cíntia Mara Ribas de Oliveira**
663. Antibiotics Ecotoxicity in Vibrio fischeri and Desmodesmus Subspicatus **Eliane Carvalho de Vasconcelos**, Carlos Roberto Dalke, Cíntia Mara Ribas de Oliveira
693. Perfluorinated Compounds: Bioaccumulation and Ecotoxicity by a Triad Bioassays. Changhui LIU, Karina Yew-Hoong GIN, Victor Wei-Chung CHANG
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780. Protective Role of Dietary Selenium against the Immunotoxic Effects Induced by Methylmercury Exposure in Mice and the Possible Mechanisms. Xuan LI, Rui Wang, and Daqiang Yin
800. The Impact of Aflatoxin and Ochratoxin on Animal Organs - More Experimental Data. Main Farraj, Valentin Necula, Nicoleta Taus, Boicu Monica, Adrian Macri, Aurel Mironescu
801. Effects of Pesticide Mixtures on Host-Pathogen Dynamics of the Amphibian Chytrid Fungus. Julia C. Buck, Trang D. Nguyen, Jenny Urbina, Andrew R. Blaustein, Jessica Hua, Aaron B. Stoler, William R. Brogan, Randall J. Bendis, Rick A. Relyea,
977. Heavy Metals Analysis and Assessment of Genotoxicity of Industrial Effluents. Bhavsar Sunilkumar, Tank Shantilal
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742. The Subcellular Form and Humic Acid Effects on nC60 Uptake by Daphnia. Qiqing Chen, Xialin Hu, Daqiang Yin
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05-4 Microbiology and Microbial Degradation

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383. The Effects of Citric Acid and Lactic Acid on the Survival of Escherichia coli O157:H7 Grown on Meat and Carrot. Itelima Janet, Agina Samuel and Itelima Kalada
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1049. Partial Characterization of Beet Mosaic Virus Isolated from Swiss Chard. Gaber Fegla and Maha Kawanna
1060. Isolation and Identification of Fungi Naturally Associated with Tribolium castaneum in Stored Wheat Flour. Hanan A. Bosly
1067. Suppressive Effect of Some Microbial Agents on Root Knot Nematode, Meloidogyne javanica Infected Eggplant. Asmaa A. Alharbi and Asmaa A. Mokbel
1073. The Development and Characterization of an Enriched Microbial Culture for Bioremediation of Petroleum Contaminated Soil. Sheldon Ramoutar, Adesh Ramsubhag, Azad Mohammed (moved to 05-04)

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342. Distribution of Macro-Invertebrates Species Diversity in the Wetlands of Upper Brahmaputra Valley, Dibrugarh, Assam. Sultana Hazarika, and Dr. P.K. Saikia.
802. Conservation Assessment and Prioritization of Freshwater Ecosystem in China. Xiaowen Li and Chen Liang.
960. Restoration of Freshwater Emergent Wetlands on the Southeast Texas Coastal Plain. Marissa Sipocz, Andrew Sipocz

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612. If You Build it, They Will Come: Created Wetland for Stormwater Treatment Case Study. Jenny W. Oakley, Misty Shepard, Kristen Vale, George Guillen
797. Deriving Vertical Saturated Hydraulic Conductivity of the Soil Using Double Ring Infiltrometer Infiltration Information.
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749. Highly Carcinogenic Polycyclic Aromatic Hydrocarbons in Bayou Sediments in the Houston Area. Hyun-Min Hwang, Bianca Hays, Taofeek Olonode
756. Assessment of Polychlorinated Biphenyls In-Situ Microbial Degradation in Arkansas Sediments. Azivy Che Aziz, Hua Wei, Asha Rani, Karl J. Rockne, An Li, Erik Christensen, Yonghong Zou
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659. The Effect of Ambient Salinity Change on Osmoregulatory Machinery in Nile Tilapia, Oreochromis niloticus. Joseph A. Adeyemi
692. Influence of ENSO on Rainfall, Streamflow and Vegetation in Pranhita Catchment, India. Rajashree Vinod Bothale, Yashwant B. Katpatal
702. Climate Change and Mobility of Population. Aminata NDIAYE, Galiné YANON
752. Mapping Asset Vulnerabilities to Storm Surge for Coastal Regions. John B. Miima, L. V. Potts, B. Datta, F. Karaa
789. Performance Comparison of Methods for Temporal Precipitation Downscaling in Urban Area: the Kunming Case. Hua Bai, Siyu Zeng, Xin Dong, and Jining Chen
837. Climate Change and Degradation of Forests: Example of the Classified Forest of Pata in Senegal. Mamadou Saliou KEITA and Aminata NDIAYE.
856. Performance Comparison of Methods for Temporal Precipitation Downscaling in Urban Area: the Kunming Case. Hua Bai, Siyu Zeng, Xin Dong, and Jining Chen
925. Better To Save A MW Rather To Generate A MW. Mehboob Alam Khan, Asif Hussain Siddiqui, Abdul Fawad
976. Challenges and Opportunities of Climate Change Adaptation in the Nigeria’s Niger Delta Region. Chika. Ogbonna
993. Global Climate Change -The Quantifiable Sustainability Challenge. Princiotta, Frank (moved to Session 00-01, #1002)
1052. Renewable Energy Vulnerability under Climate Change in Southeast Asia (Sea). Foroogh Shadman Lahijip, Saidur Rahman, Foroogh Shadman

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334. Electrochemical Reduction of CO₂ to Organic Acids on a Pd-Cu/Graphene Gas-Diffusion Electrode. Xin Liu, Hui Wang, and Zhao Yong Bian
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307. Mobility of Arsenic through Paddy Field Soil Profiles. **Bishnu Bhattarai**
324. Effect of Soil Properties on Cadmium Mobility Evaluated by Soil TLC. **Saud AL Oud**
371. Coordination Polymers of Silver(I) and Copper (I) Complexes Due to the Reaction with 1,2 bis-(4-pyridyl)ethane. **Samar Kolailat**, Vladimir Nesterov, Manal Rawashdeh Omary

824. Vertical Distribution of Trace Metals in Soil and Accumulation in Plants, **Princewill Chukwudi Ogbonna**, Onyekachi A. Ogbonna and Michael T. Folivi.
903. Vertical distribution and Chemical Behavior of Uranium in the Tailings Material of Schneckenstein (Germany). **Taoufik Naamoun**, Broder Merkel
904. Spatial Distribution of Arsenic, Lead and Cadmium in Water and Sediment Samples in River Subin, an Urban River in Kumasi, Ghana. **Yaw Amo Sarpong**, Kwasi Obiri-Danso
957. Leaching Behaviour of Selected Elements from Fly Ash Samples from Suratgarh Thermal Power Plant. **Sanghamitra Kundu** and Harsh Khandelwal.

09-2 Metal Removal and Remediation

618. Removal of Chromium(VI) by Acid-Washed Zero-valent Aluminum. **Fenglian Fu**, Weijiang Han, Zhang Cheng
647. Effect of Environmental Conditions on Pseudomonas Aeruginosa in Heavy Metals Removal. Rajesh Singh, Anita Kirrolia and Narsi R. Bishnoi


663. Determination and Quantification of Vanadium(V) in Environmental Samples Using Chemically Modified Chitosan Sorbent. Gurijala Ramakrishna Naidu, Yadamari Tharakeswar, Kalyan Yakkala

668. Biosorption of Aluminium by Free and Immobilized Bacillus Safensis KTSMBNL26 Isolated from Explosive Contaminated Soil. Elavarasi Viswanathan, Sridevi Dhanaranai and Kallanam Thamaraiselvi


730. Electrokinetic Migration of Chromium and Copper: A Comparative Behavior Analysis during A Quick Remediation Process. Hafiz Ahmad, Danuta Leszcynska, and Korhan Adalier (moved to Session 07-01)

772. Low Cost Soil Material for Efficient Heavy Metals Removal from Water and Wastewater. Jamal A. Radaideh, Matthias Barjenbruch, Ziad Shatatw

847. Removal of Metal Ions from Aqueous Solutions Using Sulfonated Grafted Poly-Glycidyl-Methacrylate Polyethylene Films. Myzairah Hamdzah, Zaini Ujang, Mohamed Mahmoud Nasef

894. Microbial Solubilization of Metals from Electronic waste (E-waste) For Better Environment. A.M. Deshmukh

1015. Studies on Removal of Metals from Contaminated Soil by Siderphore Producing Bacteria. Tank Shantilal K, Gami Dhara

09-3 Speciation, Bioavailability and Accumulation

922. Mercury Pollution in the Environment of Hg Mining Areas in Guizhou and Health Risk. Xinbin Feng, Bo Meng, Guangle Qiu, Hua Zhang

1090. Differences of Pb Uptake, Transfer and Translocation of Roadside Grown Wheat in Kano State. ANONGO, M’ember Catherine; BAKO, Sunday Paul; IORTSUUN Dora Nguemo; JAPHET, Wisdom

09-4 Phytoremediation

817. Hydrponic Phytoremediation of Lead by Ceratophyllum Demersum L. Nadia Badr, Manal Fawzy; Ahmed El-Khatib and Amany Abo-El-Kassem

10. Chlorinated and Other Persistent Organic Compounds

10-1 Characterization of Organic Pollutants

10-2 Degradation of Persistent Organic Pollutants


640. Optimization of Pseudomonas stutzeri for Pyrene Degradation under Different Nutritional and Environmental Conditions. Valsala H and Thamaraiselvi K

727. Degradation and Interconversion of Endosulfan Isomers in Aerobic Environment. Swtrantra Pratap Singh, Purnendu Bose

738. Yarrowia Lipolytica NCIM 3589, a Tropical Marine Yeast, Degrades Bromoalkanes by an Initial Dehalogenation Step. Aakanksha Vatsal, Smita S. Zinjarde, Ameeta Ravi Kumar,

11. Modeling

11-1 Environmental Simulation

622. Effect of Electrolyte Concentration on Uranium Species Adsorption: A Molecular Dynamics Study. Xiaoyu Liu, Na Zhang, Chunli Liu

656. Daily Air Temperature and Electricity Load in Hochiminh City, VietNam. Thao Thi Thu Tran, Giang Van Lam

810. Modeling of Migration and Infiltration of Cs-137 into Separate Sewer System in Urban Area of Fukushima Prefecture, Japan. Mochamad AdhiragaPratama, Minoru Yoneda, Yosuke Yamashiki

834. Probabilistic Collocation Method for Uncertainty Analysis during Soil infiltration Effecting Flood Modelling Process. Ying Huang, Xiaosheng Qin


840. Genetic Programming: Principles, Applications and Opportunities for Hydrological Modelling Oluwaseun Oyebode and Josiah Adeyemo
906. Research on setting setback distance of odor from large-scale pig farms by FLUENT. Cong-bo Song, Xu-feng Liu and Mao Liu.
907. The FLUENT Simulation and Assessment of Odour in the Extraction of Condense Oil. Cong-bo Song, Li-ming Hu and Mao Liu.
940. Simulation of Hydrodynamics of Wax Lake Delta. Qian Zhang and Chunyan Li, Jun Lin

11-2 Water Quality Modeling
694. Simulation of Water Quality in Different Oxidation Ponds in Tropical Area. Azumi Sato, Yutaka Sakakibara

11-3 Pollutant Estimation and Risk Assessment
1064. Development a Pesticide Risk Assessment Tool for Turkey. Mustafa S Yazgan

12. GIS, Database, and Remote Sensing
12-1 GIS for Environmental Assessment
328. Impact of Egyptian Revolution on Land Use, Land Cover in Nile Delta. Belal Abdelaziz, Mohamed E.S., Saleh, A.M.
388. Environmental Assessments Based on a Geospatial Framework, Brian Cantwell, Emily Zvolanek, Katherine Rollins, Ihor Hlohowskyj, and Norman Froomer.
852. Digital Model for Reconstructing Desert Channels in Alkharj Area, Saudi Arabia. Farhan AlJuaid
888. Spatial Analysis of Indoor Radon, Smoking, Home Elevation, and Lung Cancer, Mortality and Hospital Discharges, 2010-2012. George Siaway, Fern Johnson-Clarke
1084. Solid Waste Management GIS Technology & Identification of Landfills Sites as an Example in India. Amandeep Singh

12-2 Data Management and Statistics
12-3 Environmental Remote Sensing Applications
804. A Novel Algorithm to Accurately Estimate Algal Bloom Coverage in Lake Taihu. Y.C. Zhang, R.H. Ma, H.T. Duan

13. Environmental Analysis and Measurements
13-1 Environmental Analysis
315. Assessment of Heavy Metal Enrichment and Degree of Contamination around the Copper-Nickel Mine in Botswana. Alfred S. Likuku, Gilbert K. Gaboutioeloe and Khumoetsile B. Mmolawa
Using Light Detection and Ranging (LiDAR) and Multispectral Studies (MSS) to Examine Coastal Environments Influenced by Mining. W. Charles Kerfoot, Martin M. Hobmeier, Foad Yousef, Sarah A. Green, Robert Regis, Colin N. Brooks, Robert Shuchman Jamey Anderson, Molly Reif


Chemical Contaminations Derived from Debris Polystyrene in North Pacific Ocean. Katsuhiko Saida, Hideo Sato, Chih-Ming Ou, Qing-Ming Che, Osamu Abe, Yoichi Koidera and Kazuhiro Kogure.


Environmental and Power System Impacts of Plug-In Electric Vehicles: The Case of California. Asbjorn Moseidjord


13-2 Field Measurement Technologies
13-3 New Method Applications

Development of a Novel Lateral Flow Immunoassay for the Rapid Detection of Enteric Bacteria. Sumayya IK Mieta and TG Barnard

Inter-laboratory Comparison of Different PCR Assays for the Detection of Vibrio Cholerae in Wastewater Samples. Thapelo L.A. Mosiane, Vusi M. Ntema, Tobias G. Barnard and Nico Van Blerk

Strain-Level Characterization of Environmental Isolates of Legionella via MALDI-TOF MS. David Otto Schwake, Morteza Abbaszadegan, Todd Sandrin

Microfluidic System for Rapid Pathogen Capture and Analysis in Bioaerosol. Guodong SUI, Wenwen JING, Wang ZHAO and Sixiu LIU

Design and Experiments on Solar Powered WSN and UAS for Gas Sensing Monitoring. A. Malaver, F. Gonzalez, N. Motta, S. Schaber

13-4 Environmental Monitoring

Assessment of Accumulation and Transformation of Some Heavy Metals in Selected Paddy Soil of Iran. Ghasem Rahimi, Amin Charkhabi

Distribution of Perfluorochemicals (PFCS) and Artificial Sweeteners (AS) in an Urban Reservoir. Viet Tung Nguyen, Huiting Chen, Martin Reinhard, Karina Gin Yew-Hoong


Hydrograph and Chloride Pollutograph Analysis of a Stony Brook Reservoir Subbasin of the Cambridge Water Department in Eastern Massachusetts. David W. Ostendorf.

The Development of Novel Microbial Indicators Used for Environmental Tracking of Biosolid Contaminants. Patsy M. Polston, Elyse Rodgers-Vieira, Michael D. Aitken, Jill R. Stewart

DNA Used in Environmental Monitoring. Qiang Wang

14. Society and the Environment

14-1. Society and the Environment

Emotions Are the Life Line of HR Capital at Areas in Special Reference to CIL-A Case Study. Gopal Singh, R. N. Tripathi, Poulomi Musib, Pramod Pathak (moved to 04-01)

A Systems-Thinking Analysis of Environmental and Economic Forces on Sustainable Community Development. Terry L. Polen

Exogenous Factors Associated with Prevalence of Resistant Virginal Candidiasis amongst Female students in Cameroon. Irene N. Ane Anyangwe, Shu Patience Silum, Henry Dilonga Meriki

Using Multivariate Geovisualization to Model the Relationships between Place Vulnerability and West Nile Virus Risk. Abhishek Kala, Sam Atkinson, Chetan Tiwari, Joseph Oppong and Armin Mikler.

Measuring Social Vulnerability to Flooding Among Urban Poor Households in Metro Manila Riverine Communities. Justin Charles G. See, Emma E. Porio, and John Paolo C. Dalupang.

Sustainable Environmental Management and Livelihoods Improvement for Forest Adjacent Communities in Mt. Elgon, Kenya Faith Milkah Muniale, Julius Muchemi and Thomas Esipila

Aspects of Community Farms in Japan: Approach to Utilization of Unused Land and Management. Dongyun KWAK

891. Inseparable Links and Impossible Trade-Offs: Demographic Change, Economic Prosperity and Environmental Protection. Michael Herrmann


986. Evaluation and Analysis of Seaborne Transport of Nigeria’s Hydrocarbon Trade. Femi Babalola

989. Program Integration across the Forest and Agricultural Sectors in Ghana: The Role of Ideas, Interests and Institutions. Yaw Amo Sarpong, Daniel K.B. Inkoom


14-2 Environmental Ethics and Laws

14-3 Environmental Education


830. Environmental Education on Combating Desertification in Turkey. S. Serdar Yegül, Salih Serdar Yegül

836. The Study of the Effectiveness of Teaching Staff of State Hospitals in City of Tehran Associated with Hospital Waste Management. Batoul Nazari, Seyedeh Maryam Pouyan, Seyed Mohammad Shobeiri, Alireza Bassiri

15. Environmental Planning and Management

15-1 Environmental Quality and Planning


766. Prospect of Iran Natural Gas Export Projects. Hedayat Omidvar

844. Pedestrian Response to Road Traffic Noise for Medium Size City in India. Pritikana Das, M. Parida and V. K. Katiyar

15-2 Energy-related Environmental Problems

629. Impact of Provisioning E-Flows on Energy Generation at Some Major Hydro Electric Projects in Alaknanda-Bhagirathi Basins. Ankit Modi, Suresh Gurjar and Vinod Tare


15-3 Environmental Policy and Management

924. Ecological Compensation of Inundated Habitat from Hydropower Development Based On Habitat Equivalency Analysis. Bing Yu and Linyu Xu.


16. Renewable Energy Development
16-1 Water Energy Nexus

343. Carbon Capture by Acclimated Activated Sludge-Biosorption Kinetics and Capacity. **Choon-Ping Lim**, Jia Ling Neo, Emily Mar’atusalihat, Yan Zhou, and Wun Jern Ng

606. A Highly Efficient OER IrO$_2$ Electrode Doped with Mn in Neutral Solution. **Wei Sun**, Limei Cao, Chenglei Yang, Ji Yang


16-2 Wind Energy / 16-3 Solar Energy / 16-4 Bio-fuels


313. Screening of Some Indian Jatropha Accessions for Plantation and Production of Biodiesel. **Prathibha Devi Cherku**, Prathibha Devi, B. Naresh

339. Anaerobic Biohydrogen Production Using Different Industrial Waste Isolates. **A. Arun**, S. Karthik Sundaram

376. Life-cycle Environmental Impacts and Tradeoffs from Different Microalgal Biodiesel Co-products. **Kullapa Soratana**, Amy E. Landis, William J. Barr


610. Coupling Microalgae Biomass Production to Wastewater Treatment and Biofuel Feedstock Production. **Fadeyi Omowunmi**, Kudjo Dzantor, Ekundayo Adeleke


688. Impact of Viral Infectivity on Phototrophic Microbes for Biofuel Applications. **Kyle Kraft**, Absar Alum, and Morteza Abbaszadegan

710. Biohydrogen Production from Food Waste. **Chengcheng Hu**, Jing-Yuan Wang, Apostolos Giannis, and Chia-Lung Chen


732. Cloning of Genes Encoding for Cellulolytic Enzymes from Metagenome in Goat’s Rumen. **Santosh Thapa**, Hui Li, Sarabjit Bhatti, Suping Zhou


745. Goat Rumen Metagenome Extraction, Annotation and Screening for Cellulase and Hemi-cellulase Genes. **Hui Li**, Santosh Thapa, Suping Zhou

762. Green Commercial Jetliner: A Revolution in Aviation. **Avinash Kumar**, Rohith Kumar, Issame Djahnine, Samrat Pant, Samridha Man Shrestha

845. Strategy of Lipid Induction from Microalgae for Biodiesel Production. **Hanaa H. Abd El Baky** and Gamal S. El-Baroty

848. Castor Oil for Biodiesel. **Tsegay Hiwot**


910. Study on the Hollow Fiber Gas Separation Membrane System for Effective Utilization of Biogas. **Yong-Woo JEON**, Oh-Hoon KWON and Dong-Hoon LEE

928. Assessment of Alternative Energy through Production of Biogas from Biodegradable Domestic Wastes. **Wachukwu, Confidence Kinikanwo**; Eleanya, Evangeline; Ollor, Ollor Amber; Abichou Tarek

985. Anaerobic Co-digestion of Sewage Sludge and Bagasse for Biogas Recovery. **Raouf HASSAN**
16-5 Special Energy Development

311. Unique Green Technology – Research and Development. George J. Molteni
605. Hydrogen Production from Regenerating Desulfurization Residuals in an Electro-membrane Reactor. Chenglei Yang, Chenglei Yang, Limei Cao, Wei Sun, Ji Yang
634. Matribhumi Improved Cooking Stove - A Boon to Rural Areas of Nepal. Maneesha Rajbhandari, VivekDhar Sharma
700. Wave Energy Conversion and Offshore Breakwaters: Solving Coastal Erosion and Electricity Problems. Derrick Martin Adjei Sowa, Fumin Xu and Mark Amo-Boateng
746. The Role of Calcium in the Process for Harvesting Microalgae from Water. Jinyong Choi, Kerry A Kinney, Lynn E Katz
781. Simultaneous Carbon Capture and Hydrogen Yield Enhancement in Hydrothermal Gasification of Dewatered Sewage Sludge, Chao He, Chia-Lung Chen, Apostolos Giannis, Yanhui Yang, and Jing-Yuan Wang
791. Suitability Evaluation for Groundwater Source Heat Pumps In Nanjing-Based On AHP and Entropy Weight Method. Lumei Yang, Mingjun Zhu, Jian E, Mingzhu Chen