9th International Conference on Environmental Science and Technology 2018 June 25-29, 2018 • Hilton Hotel • Houston, USA

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

	25-June	26-June	27-June	28-June	29-June
Morning 8:00a.m 11:50a.m.	Registration	Plenary Meeting	Platform Sessions	Platform Sessions	Platform Sessions
Afternoon	1:00p.m-7:00p.m.	Platform Sessions	Platform Sessions	Platform Sessions	Visit NASA*
1:30pm 6:00p.m.					
Evening		Poster Session I	Poster Session II	Award Anouncement,	
7:00p.m 9:00p.m.				Dinner	
7:30a.m 6:00p.m.	Arrival / Registration	Registration	Registration	Registration	Registration**

Conference Schedule

*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 26		Session Number	Session Title
Grand Meeting Room	8:00am-11:50am	Session 00-01	Plenary Meeting
Meeting Rooms	1:30pm-6:05pm 1:30pm-6:05pm	Session 01-14A Session 01-14B	Adsorption/Desorption for Wastewater Treatment Adsorption/Desorption for Wastewater Treatment
	1:30pm-6:05pm	Session 02-01 Session 02-02 Session 02-03 Session 02-04 Session 02-09	Aerosol Air Quality Assessment Transport of Air Pollutants Waste Gas Control Techniques Air Pollution Prevention and Management
	1:30pm-6:05pm 1:30pm-6:05pm	Session 03-01 Session 03-02	Contaminants in the Subsurface Natural Attenuation of Contaminants
	1:30pm-6:05pm	Session 03-03	In-Situ Remediation
	1:30pm-6:05pm	Session 03-04 Session 03-05 Session 03-06 Session 03-07 Session 03-08 Session 03-09 Session 03-10 Session 03-11 Session 03-12 Session 03-13	Solid Waste Management On-site and Off-site Remediation Landfill Pemeable Reactive Barriers Waste Fuel Site Remediation Waste Recycling Radioactive Waste and Land Pollution Phytoremediation of Organic Pollutants Polymer Waste Recycling and Management Plants and eco/Soil Stabilization
Poster Room	7:00pm-9:00pm	Poster Session I	Sessions 01-01~01-11, 3, 4, 5, 6, 7, 8, 9, 10, 11
Wednesday	Wednesday, June 27		

Meeting Rooms	8:00am-6:05pm	Session 01-17	Nanotechnology Applications Ecosystem Assessment
	8:00am-6:05pm 8:00am-6:05pm		
	8:00am-6:05pm	Session 01-01 Session 01-02 Session 01-03 Session 01-04 Session 01-06 Session 01-07 Session 01-08	Rivers, Lakes and Estuary Systems Watershed Management Water Resources and Assessment Groundwater Wastewater Discharge Management In-Situ Measurement and Monitoring Drinking Water
	8:00am-6:05pm	Session 02-05 Session 02-06	Air Pollutant Monitoring Hazardous Gas Biofiltration Ilution
	8:00am-6:05pm	Session 02-07 Session 04-01 Session 04-02 Session 04-03 Session 05-01 Session 05-02 Session 05-03 Session 05-04	Catalysts for Reducing Emission Ecosystem Assessment Nutrients and Functions of Ecosystems03- Restoration of Ecosystem Human Exposure Bio-response and Ecotoxicology Bioavailability and Bio-accumulation Microbiology and Microbisl Degradation
	8:00am-6:05pm	Session 06-01	Wetland Conservation
	8:00am-6:05pm	Session 07-01	Assessment of Sediments
	8:00am-6:05pm	Session 07-02 Session 08-01 Session 08-02	Remediation of Contaminated Sediments Global Warming and its Impacts Carbon Discharge Reduction
	8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm	Session 09-03 Session 09-04 Session 09-05 Session 11-01 Session 11-02 Session 12-01	Speciation, Biovailability and Accumulation Phytoremediation Metal Processing Environmental Simulation Water Quality Modeling GIS for Environmental Assessment
	8:00am-6:05pm	Session 12-02	Data Management and Statistics
	8:00am-6:05pm	Session 12-03	Environmental Remote Sensing Applications
	8:00am-6:05pm	Session 16-01	Water Energy Nexus
	8:00am-6:05pm 8:00am-6:05pm	Session 16-02 Session 16-03 Session 16-04	Wind Energy Solar Energy Bio-fuels
Poster Room	7:00pm-9:00pm	Poster Session II	Sessions 01-12 ~ 01-17, 02, 12, 13, 14, 15, 16
Thursday,	June 28		
Meeting Rooms	8:00am-6:05pm 8:00am-6:05pm	Session 01-09 Session 01-10 Session 01-11	Water Quality Assessment/Management Nitrogen-Phosphorus Wastewater Biotreatment Sludge Treatment
	8:00am-6:05pm	Session 01-12 Session 01-13	Municipal Wastewater Biotreatment Industrial Wastewater Biotreatment
	8:00am-6:05pm 8:00am-6:05pm	Session 10-01 Session 10-02	Characterization of Organic Pollutants Degradation of Persistent Organic Pollutants
	8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm 8:00am-6:05pm	Session 09-01 Session 09-02 Session 13-01 Session 13-02 Session 13-03 Session 13-04 Session 14-01 Session 14-02 Session 14-03	Metal Distribution Metal Removal and Remediation Environmental Analysis Field Measurement Technologies New Method Applications Environmental Monitoring Society and the Environment Environmental Ethics and Laws Environmental Education Environmental Quality and Planning
	8:00am-6:05pm 8:00am-6:05pm	Session 15-02 Session 15-03	Substainable Development Environmental Policy and Management

Conference Center	6:30pm-7:00pm	Award Announcement	Including Student Paper Award, Young Scientist Paper Award, Conference Paper Award, and Poster Award
Friday, June	Friday, June 29		
Meeting Rooms	8:00am-11:50am	Session 01-15	Physico-chemical Wastewater Treatment
	8:00am-11:50am	Session 01-16	Reactions and Degradation of Wastewater Contaminants

Sessions, Reference Numbers, and Presenters

(Including platform (oral) and poster presentations, not the final version) (Poster sessions will be scheduled on June 26th and 27th) (Presenters are listed, while some co-authors are not included)

Plenary Meeting

- 1001. Engineering Applications in Food, Energy, and Water Nexus. **Prof. Bahram Asiabanpour** (Texas State University, Texas, USA)
- 1002. To See or Not To See the Shortcomings of Priority Pollutants The Case of the 16 EPA PAHs. Prof. Dr. Jan T. Andersson (University of Muenster, Muenster, Germany)
- 1003. Production, Evaluation and Application of Commercial Grade Biochar and Activated Carbon for Contaminant Adsorption, Prof. Hafiz Ahmad (Florida State University, Florida, USA)

01. Water Pollution and Water Quality Control

01-01 Rivers, Lakes and Estuary Systems

- 594. Distribution and Evaluating the Fate of Cyclic Volatile Methyl Siloxanes in a High Altitude Lake. *Junyu Guo* and Jianbo Zhang
- 633. Findings of Hyporheic Zone Studies in Coastal California Watersheds Dominated by Monterey-Modelo Formation Substrate. *Marissa DeHoyos* and *Barry Hibbs*
- 642. Phosphorous Removal in Eutrophic Surface Water to Control Algae Bloom Using Novel Sorption-Precipitation Based Natural Materials. *Chunlong Zhang*, Rio Carlo Lirag, Steven Wu, Richard H. Zhang
- 852. Nitrate Source Proportional Contributions in the Feng River Using Its Isotopic Ratios in Combination with a Mass Balance Mode. **ZHI Jian-hui**, SONG Sheng-yu
- 853. Study on Spectral Characteristics of Dissolved Organic Matter in Fen River of Taiyuan, West China. **Jianhui Zhi**, Tingting Liu, Shengyu Song

01-02 Watershed Management

687. Analysis of Trends in Agricultural Tributary Phosphorus Loading to Lake Erie using Climate and Economic Variables. *Theodore Saltos,* Brent Sohngen

01-03 Water Resources and Assessment

- 577. Survey of physical-chemical quality of superficial waters at the surrounding area of the sebkha Basin (Moknine, Tunisia), *Taoufik Naamoun*
- 646. Factors in Developing Salt Balance Load Estimates in Aquifers. Barry Hibbs and Godina Ying
- 661. Assessment of the Water Supply Alternative for a Mining Prospect in the Western Region of Saudi Arabia: A Case Study. **Bassam Tawabini**, Abdulaziz Shaibani
- 727. Water-Level Change as a Precursor of Groundwater Drought. Jae M. Lee, Sunjoo Cho and Nam C. Woo
- 768. *Fate and Transport of Pharmaceutical Residues in Three Mile Creek Mobile, AL. Darius Hixon,* Alison Robertson, Kevin White, Timothy Sherman and Shannon Mitchell

01-04 Groundwater

- 534. Quality Assessment of Groundwater by Graphical Models in Rural Provinces of Korea. *Jong Yeon Hwang*, Sunhwa Park, Moon-Su Kim, Hun-Je Jo, Ji-In Kim, Gyeong–Mi Lee, InKyu Shin, Sang Ho Jeon, Da Hee Song, Deok-Hyun Kim, Hyen Mi Chung, Hyun-Koo Kim
- 553. Gibberellic Acid Surface Complexation and Desorption Retention on the Ferrihydrite/Water Interface. *Li Zhang,* Liang Chen, and Fei Liu.
- 635. Arsenic and Selenium Redox Transformations in Groundwater Beneath a Drained Terrestrial Marsh. *Barry Hibbs, Rachel Ridgway, and James Walker*
- 662. Protection of the Columbia River from Contamination of the Hanford Site Nuclear Facility, Washington State. *Dibakar (Dib) Goswami*
- 675. Use of Electrical Resistivity Tomography for Prediction of Degree of Groundwater Contamination. *Debaprakash Parida*^{*}, Arindam Saha, and Ashim Kanti Dey
- 736. Assessment of Groundwater Quality of Mulakalacheruvu Area, Chittoor District, Andhra Pradesh, South India Using Multivariate Statistical Techniques. **Thejaswi Arveti**
- 738. Multivariate Statistical Analysis of Groundwater in the Fluoride Affected Area of Jaggayyapalem, South India. Nagaraju Arveti
- 787. 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

01-05 Non-point Sources /01-06 Wastewater Discharge Management

- 623. Challenges of Municipal Waste Management and Disposal Criteria. *Eyilachew Yitayew Abate*
- 697. Risk Reduction / Cost Savings by Effective Oil Spill Response and Spill Countermeasure Plans. *Steven Pedigo*, Diane Wagenbrenner, Cody Kaduce, Paul W. Sammarco
- 714. Analysis of Waste Water Treatment in Kaduna Refining and Petrochemicals Corporation (KRPC) (NNPC Kaduna) Nigeria. **Bertha Abdu Danja**

01-07 In-Situ Measurement and Monitoring /01-08 Drinking Water

- 568. A Portable Microfluidic Sensor for Quantification of Environmental Sulfides with Polydimethylsiloxane Membrane Pervaporated Sampling and Optical Detection. *Ming Li*, and Hong-Hua Quan.
- 709. Improvement of Vacuum Membrane Distillation Desalination Performance by Micro-Nano Bubbles Aeration. *Yubing Ye*, Shuili Yu, Li'an Hou, Baosen Liu and Qing Xia
- 732. 732. Modeling of Chlorine Decay Based on Initial Chlorine Dose, Reactant Concentrations and their Distributions. **Ababu Teklemariam Tiruneh,** Amos O. Fadiran, Stanley J. Nkambule, Lwazi M. Zwane
- 746. 746. Performance Evaluation of Algal Alginate as a Potential Coagulant and Water Softener. **P. Saranya**, S. T. Ramesh, S. Mohan
- 801. 801. Willingness to Pay for Safe Drinking Water in the Coastal Area of Bangladesh: A Pilot Study in Tala Union, **Satkhira**
- 808. 808. Household Awareness and Willingness for Clean Drinking Water Supply: A Case Study of Islamabad, Pakistan. Nazia Mehwish, Naila Saleh, Muhammad Khursheed
- 825. Formation of Disinfection Byproducts in Desalinated Drinking Water: An Assessment and Control Strategy. *Shakhawat Chowdhury*
- 831. Smart Sensing and Control of Thermoelectric Coolers for Atmospheric Water Generation. *Natalie Ownby*, Melina Mijares, Mark Summers, and Bahram Asiabanpour
- 832. Reduction of Power Consumption in Atmospheric Water Generation. *Reduction of Power Consumption in Atmospheric Water Generation*. *Natalie Ownby*, Melina Mijares, Mark Summers, Bahram Asiabanpour

01-09 Water Quality Assessment/Management

- 567. *Quantifying Inland Surface Water Quality via Remote Sensing of Water Surface Reflectance.* **Rose S. Sobel**, Amin Kiaghadi, and Hanadi S. Rifai
- 583. *Chemical Leaching from Two Low Impact Development Techniques.* Musa Akther, Anton Skorobogatov, *Jianxun He*, Angus Chu, and Bert van Duin
- 584. *Riverine Water Quality Response to Hydro-Meteorological Conditions.* Sajjad Rostami, *Jianxun He*, and Quazi K. Hassan
- 590. Levels of Polychlorinated Biphenyls in Water and Sediments of Ogun River, Nigeria. **Akan Williams**, Adedunsola Adigun and Oladotun Bolade
- 591. Levels of Polycyclic Aromatic Hydrocarbons in Water, Sediments and Fishes of Owo River, Nigeria. Akan Williams, Sule Aminu and Oladotun Bolade
- 612. Performance Characteristics for Particles of Sand in A Newly Designed Ribbed Hydrocyclone. Gayatree Patra, Sudipto Chakraborty and B. C. Meikap
- 613. Surface Water and Sediment Quality Assessment in the Gbaran-Ubie Integrated Oil & Gas Project, Niger Delta, Nigeria. **Seiyaboh, E.I.,** Gijo, A.H and Sikoki, F.D
- 619. Framework for Developing Groundwater Protection Management Model for Saudi Arabia. M. S. Al-Suwaiyan
- 641. Tracking Nitrate Sources of Deep Groundwater in the Jeju Volcanic Island, Korea
- 806. 806. Restoring Water Quality for Municipal Water Supply through a Collaborative Liaison for Land Management. Joachim Ibeziako Ezeji
- 826. Assessment of Water Quality Degradation in the Drinking Water Sources Based on 18 Years Data from 441 Water Supply Systems. Shakhawat Chowdhury

01-10 Nitrogen-Phosphorus Wastewater Treatment

- 631. Nutrient Recovery from Cow Urine by Struvite Precipitation. Nityanand Singh Maurya, Amit Verma
- 685. Strategies for Maintaining Nitritation in Membrane Bioreactors Operated under Long Solids Retention Time. **Yishuai Jiang**, Leong Soon Poh, and Wun Jern Ng.
- 704. Application of MgO Modified Diatomite for Simultaneous Recovery of Chlorella Vulgaris, Nitrogen and Phosphate: Interaction Mechanism. **Jing Li** and Xuejiang Wang.
- 762. Removal of Nitrate from Domestic Wastewaters Using Algae. Selim L. Sanin, Mohammad izhar, Aydın Akbulut
- 814. Nitrogen Removal by New-Type Rotating Biological Contactors with Anoxic Filter for Domestic Sewage Treatment in Rural Area. Xiao Zha; Jun Ma; Xiwu Lu.
- 817. Nitrification in the Gut of Tendipes. Liuyan Yang and Xu Sun
- 835. The Deammonification for Nitrogen Removal from the THP (Thermal Hydrolysis Process)'S Sidestream with Immobilization Technology. **Vifeng Yang**, Yuan Li, Siqing Xia and Slawomir Hermanowicz

01-11 Sludge Treatment

- 579. The Correlation between Moisture Distribution and Macromolecular Substances in Anaerobic Digestion. **Wei Zhang**, Bin Dong, and Xiaohu Dai
- 620. Research on Interchange Ratio (IR) Parameter Optimization and Mechanism of A²/O-MOSA Process with Source Sludge Reduction Characteristics. **Yuji Lin**, Zhixiong Fan, Weibin Guo, Chenyi Shi, Tingjin Ye, Wuzhen Guo, Lianpeng Sun
- 656. The Efficiency of the Multi-Plate Screw Press in the Sludge Dewatering Process, Is It the Best Solution? Anne Wambui Mumbi, Li Fengting
- 672. A Novel Sludge Anaerobic Digestion Configuration with Post-Thermal Hydrolysis and Recirculation of Liquid Hydrolysate. **Donghai Yang**, Bin Dong and Xiaohu Dai.
- 684. Impact of Reported Flocculative and Deflocculative Conditions on Laboratory Cultivated Sludge Flocs. **Akshaykumar Suresh.** Wun Jern Ng, Ewa Grygolowicz-Pawlak, Leong Soon Poh
- 689. Bioleached Sludge Composting: A Case Study. Lixiang Zhou, Weitong Hu, Lixiang Zhou

01-12 Municipal Wastewater Biotreatment

- 503. Demonstration Projects of Rural and Happy Farmhouse Sewage Treatment in Anji County in China, **Wang Yunlong**, Shen Alin, Yu Man and Luo Ancheng
- 504. Isolation and Optimization of Native Microorganisms for the Aerobic Treatment of Oil and Grease Wastewaters. **Zhiwei Liang**, Guofang Liu and Ancheng Luo.
- 767. Biological Degradation of Laundry Wastewater under Aerobic and Anaerobic Condition: A Kinetic Evaluation. Keerthi K. and Debraj Bhattacharyya
- 820. Dissolved Methane Recovery from Novel Anaerobic Attached Growth Reactor Treating Synthetic Domestic Wastewater. **Brian Crone,** George Sorial, Jay Garland.

01-13 Industrial Wastewater Biotreatment

- **513.** Comparative Analysis of Persistent Organics Removal Based on the Aeration Source Supplied to Biological Treatment of Textile Industry Wastewater. **Ninad Oke** and S. Mohan.
- 544. Potential Study of Colocasia Esculenta Root for Waste Water Treatment. Shilpi Biswas, Abhijit Mondal, Soma Nag
- 581. A Novel Double-Cathode Microbial Fuel Cell for Treatment of Hexavalent Chromium Wastewater. Zhuyuan Liang, Hang Yu, and **Qingliang Zhao**
- 598. Synthesis & Characterization of PDMS (Polydimethylsiloxane) Membrane and Enhance its Dye Degradability Property by Incorporating the Silica Nanoparticle. **P.Kumar,** Naresh K. Sethy, Zeenat Arif, P.K. Mishra
- 622. Inhibition of Nitrification and Degradation of the Heavy Metal Precipitation Agent Dimethyldithiocarbamate by Activated Sludge. **Stephan Wasielewski**, Ralf Minke, Peter Maurer, Bertram Kuch, Harald Schönberger
- 673. Assessing the Effects of Operational Parameters on Membrane Fouling in Ultrafiltration of ASP Flooding Wastewater by Membrane Fouling Structure Model. Liumo Ren and Shuili Yu
- 707. Experimental Study on Treating and Recycling of Steel Rolling Wastewater by Constructed Wetland Enhanced with Sulfur Autotrophic Denitrification. **Xiaohu Lin,** Jingcheng Xu, and Jie Ren
- 764. Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. **Mohamed Soliman Elshikh**
- 839. Decolorization Azo Dyes by Fungus Isolated from Industrial Sewage Contaminated Soil. Patel Bhavinee, Mehra Bhavna K, **Tank Shantilal K**
- 840. Biodegradation of Phenol by Bacterial Strain Isolated from Industrial Sewage.Desai Jigna ,Mehra Bhavna K, **Tank** Shantilal K
- 842. Efficient Biodegradation of Azo Dye Acid Blue 113 by Bacterial and Yeast Consortium and Molecular Analysis of Bacterial Biodegradative Pathway. Chaeyoung Rhee, Aalfin Emmanuel, Hong-gi Kim, and **Sung-Cheol Koh**
- 843. Metagenomic Analysis of Relationships between Carbon and Denitrification Metabolisms in Tannery Wastewater Treatment Plant Bioaugmented with Novel Microbial Consortium BMS-1. Aalfin Emmanuel, Chaeyoung Rhee, Sung-Cheol Koh, Woo-Jun Sul and Hoon-Je Seong
- **850.** Chemical Fixation of Automative Industry Coating Sludge Containing Nickel and Zinc Using Silica Fume as Alternative Binder to Portland Cement. **Gizem EKER**, Vedat PINARLI

01-14 Adsorption/Desorption for Wastewater Treatment

- 514. Application of Carbon Nanotubes to Remove Polycyclic Aromatic Hydrocarbons from Contaminated Water: Current Technologies, Challenges and Prospects. Adeola A. Akinpelu, Md. Eaqub Ali, R. Saidu, Shemsi A. Mushir, Muhammad Qurban
- 529. Evaluation of Absorption Process for Heavy Metals Removal found in Pharmaceutical Wastewater. Jamal A. Radaideh
- 542. Landfill leachate Treatability by Powder Activated Carbon (PAC) Addition on Membrane Bioreactor (MBR). **Raheleh Fallahfard,** Rouhallah Mahmoudkhani
- 565. The Effect of Conditioning on Improving Ammonium Removal Capacity of Clinoptilolites. **Bilsen BELER-BAYKAL**, Ahu YURTOGLU
- 570. Irreversible Adsorption of Sulfonamides Antibiotics on Luffa cylindrica fiber and Its Bioavailability. Lan Zhang, **Yun** Liu and Yuan-hua Dong.
- 582. Synthesis and Properties of Magnetic Graphene Oxide/Fe₃O₄ Nano-adsorbent for Dye Wastewater Purification. **Shengyan PU***, Shengyang XUE, Yaqi HOU, Zeng YANG and Rongxin ZHU.
- 586. A Comparative Study of COD Removal from wastewater using Biochar and Activated Carbon from Hardwood and Pine Tree. **Hafiz Ahmad**, Korhan Adalier, Brandon Madden, Douglas Brown and Andres Rodrigues.
- 599. Kinetics, Isotherm Studies, and Uptake Mechanisms of Anionic and Cationic Heavy Metal Adsorption onto Polymerbased Graphene Oxide Nanocomposite Beads. Jem Valerie D. Perez and Maria Lourdes P. Dalida, Debora F. Rodrigues
- 644. Kinetics and Equilibrium Study of Resorcinol Adsorption onto Surface Modified Ordered Mesoporous Carbon. **Zaki Uddin Ahmad**, Mark E. Zappi, Daniel Dianchen Gang
- 663. Adsorption of Lead(II) onto Phosphate Modified Ordered Mesoporous Carbon: Kinetics, Equilibrium and Thermodynamic Study. Qiyu Lian, **Zaki Uddin Ahmad**, Mark E. Zappi, Daniel Dianchen Gang
- 664. Statistical Optimization of Adsorption Parameters for Removal of Glyphosate Using Response Surface Methodology. Gayana Anjali Dissanayake Herath, Richard D. Webster, Wun Jern Ng
- 679. External Phosphorus Adsorption and Immobility with the Addition of Amend Calcium Peroxide Material. **Jing Zhou**, Dapeng Li, Shutong Chen
- 698. Reduced Graphene Oxide as an Efficient Adsorbent in Waste Water Treatment. Meena Ejjada, Ravi K. Biroju, P. K. Giri, Chandan Mahanta
- 770. Valorisation of Grape Pomace to Effective Biosorbent for Waste Water Remediation Arunima Nayak, Brij Bhushan
- 780. Feasibility Studies on the Removal of Iron and Fluoride from Aqueous Solution Using Shells of Limonia Acidissma as Adsorbent. **G. Anusha**
- 794. Multiwalled Carbon Nanotubes as a Novel Solid-Phase Extraction Adsorbent for TPH Determination in Contaminated Water. **Akinpelu A Adeola**^a, Ilyas Muhammad ^a, Ahsan M Shemsi ^a

- 807. Application of ANN for Modeling the Adsorptive Removal of Fluoride by Alumina Cement Granules. **Ashok K. Gupta**, S. Ayoob, Partha S. Ghosal, Manoj K. Yadav
- 838. Removal of Long and Short Chain Perfluoroalkyl Substances via Granular Activated Carbon Adsorption. Eric Forrester and Ralph Franco
- 856. Bromate Reduction and Reaction-Enhanced Perchlorate Adsorption by FeCl₃-impregnated Powder Activated Carbon. Jianhong Xu, Naiyun Gao and Dongye Zhao

01-15 Physico-chemical Wastewater Treatment

- 546. Efficient Degradation of Organic Pollutants by a Dual-Reaction-Center Fenton-Like Process over 4-Phenoxyphenol-Functionalized Reduced Graphene Oxide Nanosheets. Lai Lyu, Yumeng Wang, Wenrui Cao and Chun Hu
- 596. Reinvestigating the Role of Reactive Species in the Oxidation of Organic Co-Contaminants during Cr(VI) Reactions with Sulfite. **Hongyu Dong**, Xiaohong Guan, and Timothy J. Strathmann
- 616. Treatment of Leachate from Open Dumping of Municipal Solid Waste through Advanced Oxidation Process. **Gokul. D** and S. Mohan
- 667. *Removal of COD from Pigment Industrial Wastewater by Fenton Oxidation Process.* **Vishnu Tejani**, Nibedita Pani, Dr. Anantha Singh TS
- 671. Evaluation of Membrane Fouling Characteristics and Maintenance Chemical Cleaning Protocol in Seawater Reverse Osmosis Process Using Hot Wastewater from Power Plant. **Kitae Park**, Pooreum Kim, Minjin Kim, Jewan Yoo, Hyungsoo Kim
- 691. Membrane Technologies for Brackish Water Desalination. Naglaa.Eid
- 692. The Effect of Sodium Hypochlorite(NaOCI) on RO Membrane Surface During Backwashing in Seawater Desalination Process. **Minjin Kim**, Jayeong Seong, Nayoung Park, Hyungsoo Kim
- 728. Effect of Persulfate (S₂O₈²⁻), Hydrogen Peroxide (H₂O₂) and Microwave Irradiation Pretreatments on the Biochemical Methane Production Potential of the Wastewater Sludges. **E. Özön**, A. Erdinçler
- 758. Comparison of Fenton and Photo-Fenton Removal Efficiencies during Ampicillin Degradation. Afsoun Nikravan, Selim L. Sanin
- 760. 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
- 783. Effect of Calcium Ions on Haloacetic Acid (HAA) Rejection by Nanofiltration (NF) Membranes. Linyan Yang, Victor W.-C., Chuyang Y. Tang
- 789. 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
- 811. Oxidative Transformation of Refractory Benzothiazoles with PMS/CuFe₂O₄ Process. **Tao Zhang** and TorOve Leiknes. Tao Zhang
- **815.** Oxidant Dependent Photocatalytic Activity of Polypyrrole towards the Degradation of Rose Bengal Dye. **Mukulika** Jana Chatterjee, Sk. Taheruddin Ahmed, Anup Mondal and Dipali Banerjee.

01-16 Reactions and Degradation of Wastewater Contaminants

- 523. *Remediation of Polluted Wetlands through Phytoremediation. S Mohan and Abhishek Tippa.* **S. Mohan**, Abhishek Tippa
- 538. Enhanced Catalytic Ozonation Oxidation Using Magnetic Carbon Nanotubes Composites for Removal of Bisphenol A With Coexistence of Humic Acid in Aqueous Solution. **Yajing Huang**, Qing Zhang, Chun He^{*}, Wenjun Xu, Lingling Hu.
- 560. Accelerated Photocatalytic Degradation of Organic Pollutant over Metal-organic Framework MIL-53(Fe) under Visible LED Light Mediated by Persulfate. **Yaowen Gao**, Chun Hu, and Hui Zhang
- 571. Efficient Catalytic Ozonation of Bisphenol-A with Three-Dimensional MnO₂ Porous Hollow Microspheres and an Insight into Probable Catalytic Mechanism. **Lingling Hu**, Qing Zhang, Wenjun Xu, Yajing Huang, Chun He
- 659. Elimination of Micro-Organisms and Micro-Pollutants by Advanced Wastewater Treatment Technologies. Claudia Gallert
- 668. Influence of Polyelectrolyte Modification on Nanoscale Zero-Valent Iron (nZVI): Aggregation, Sedimentation, and Reactivity with Ni(II) in Water. Liu Jing, Liu Airong, Zhang Wei-xian
- 693. Micropollutant Removal Efficiency in an Activated Sludge System Operated at Low Sludge Retention Time. Maggie Green, **Emel Topuz**, Gülten Yüksek, Emine Ubay Cokgor, and Didem Okutman Tas
- 749. Utilization of Torula Yeast/<u>Zymomonas Mobilis</u> as Main/Reciprocal for Degradation of Municipal Organic Waste as Feed for Goats. **Kanu Chikezie N.**, Anigbogu N. M, and Ezike J. C

01-17 Nanotechnology Applications

510. Fabrication of Cu-Ni/graphene Catalysts for Eletrochemical Degradation of Chloramphenicol. **Xiaozhe Song**, Hui Wang, and Zhaoyong Bian.

- 511. Effects of Fabrication and Modification Method of Magnetic Nanomaterials on Green Algae Capture Performance. **Pei-rui Liu**, Yu Hong
- 521. Kinetics, Mechanisms and Pathways of Sulfadiazine Photodegradation by $ZnO/ZnFe_2O_4/g-C_3N_4$ Composite. Guanglan Di, and Zhiliang Zhu
- 528. Effect of HCO₃ on Physicochemical Properties of Silver Nanoparticles and Toxicity to E.Coli. **Bojie Yuan** and Minghao Sui
- 548. Epitaxial Branched WO₃/TiO₂ Nanostructures for Highly-Stable and Efficient Photoelectrocatalytic Wastewater Treatment. **Qingyi Zeng**, Chun Hu, and Baoxue Zhou.
- 681. Continuous Treatment of Emulsion Effluents of Steel-Rolling Mills Using Magnetite (Fe₃O₄) Nanoparticles. **Parsanta, and Ashok N. Bhaskarwar**
- 694. Green, Environmentally Benign and Biogenic Fabrication of SnO₂-CNT Nanohybrids and Their Multifunctional Vivacity as an Efficient, Recollectable and Reusable Material for Complete Water Decontamination. **Dipyaman Mohanta,** Md. Ahmaruzzaman, Abhijit Nath, Partha Pradip Adhikari
- 700. Plasmonic Photocatalysts for Environmental Applications in Detection and Treatment of Organic Pollutants. Jai Prakash
- 703. Effect of Environmental Factors on Interaction between Tetracycline and Copper Oxide Nanoparticle. **Jun Ma** and G. Daniel Sheng
- 708. Physico-chemical Approach of Harvesting Chlorella Sorokiniana and Scenedesmus Obliquus with Magnetic Ferrite Nanoparticles Containing Mn. Louie Lapenas, Mark Daniel De Luna, and Debora Rodrigues
- 779. *Photocatalytic Degradation of Congo Red Dye by Nano Zinc Oxide.* **Amjed Mirza Oda**, Alaa Rasheed Omran, Ahmed Saleh Al-khafaji, Abbas Jassim Attya, Rahma Hashim, Luma Ahmed Alnakash
- 802. Estimation of TPHs in Oil Contaminated Wastewater by Adsorption on MWCNTs Using Solid-Phase Extraction Coupled With GC-FID. **Ilyas Muhammad**, Akeem Akinpelu, Ahsan M Shemsi

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- 507. Assessment of PM_{2.5} and Noise Level at Transport Corridors of Delhi during Odd-Even Episode. Amrit Kumar, Anmol Vishwakarma
- 550. Episodic Air Pollution Events in Delhi during Crop Residue Burning: A Comprehensive Study of Multiple Pollutants. **Pavan Kumar Nagar,** Mukesh Sharma
- 564. Evaluation of PM2.5 Emissions and PAHs Concentration in PM2.5 from the Exhausts of Diesel Vehicles. **Kassian T.T. Amesho**, Ya-Ching Li, Feng-Chih Chou, Syu-Ruei Jhang, Yu-Chieh Lin, and Yuan-Chung Lin
- 625. Analysis of Land Use on Air Quality in Pennsylvania Using Geospatial Technologies. Alex Criswell and Rachel Hodgins
- 733. Analysis of Meteorological Conditions on a Persistent Haze Process in Yangtze River Delta. **Rui Han,** Shuxiao Wang, Wenhai Shen, Mingnong Feng
- 744. Characterization of Odor Emissions at Organic Chemistry Production Process. **Ilker AKMIRZA,** Kadir ALP, Ugur GULER and Merve YILMAZ
- 755. Decreasing Emission Factor of Pollutants in Abadan Refinery by Renovating the Furnace Design, **Abbas Zabihi** and Mohammad Raazi Tabari.
- 771. Measurement of PAHs in the Ambient Air. Elham Eslami

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- 592. *Reducing Emissions from Gasoline Engines Using Hydrogen.* **Yu-Chieh Lin**, Syu-Ruei Jhang, Kang-Shin Chen, Sheng-Lun Lin and Yuan-Chung Lin
- 743. Commuter's Exposure to PM_{2.5}: A Case Study of BRTS Corridor in Delhi. Rajeev Kumar Mishra and Amrit Kumar
- 798. Numerical Modeling of Air pollution particles Transport and Deposition in Human Lung. V.K. Katiyar
- 818. Fine particulate matter (PM_{2.5}) at a Rural Site in North Central India: Its Characterization and Source Apportionment. Aparna Satsangi, Anita Lakhani and K. Maharaj Kumari
- 819. Occurrence and Health Risk Assessment of Phthalate Esters in Road Dust in Parks of Tianjin City during Spring and Winter. **Yaqin Ji**, Lei Zhang, Shibao Wang

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- 585. Adsorptive Removal of Formaldehyde from Indoor Air using Mixed-Metal Oxides. Fateme Rezaei, Anirudh Krishnamurthy
- 652. *Pb and SO*₂ *Poisoning Effect on CeO*₂-*WO*₃/*TiO*₂-*SiO*₂ *Catalyst for SCR.* **Yue Peng**^{*}, Dong Wang, Jun-hua Li, John Crittenden and Ji-ming Hao
- 653. The Dechlorination Effect of Chlorobenzene on Vanadium-based Catalysts for Low-temperature NH₃-SCR. **Dong Wang**, Yue Peng^{*}, Jun-hua Li and Ji-ming Hao
- **753.** Hopcalite Group (CuMnO_x) Catalysts for Carbon Monoxide Oxidation at Low-Temperature Conditions. Subhashish Dey¹, Ganesh Chand Dhal, Ram Prasad, **Devendra Mohan**
- 797. The Typical Technologies for Ultra Low Emission from Coal -fired Power Plant in China. Jianyi LU, Bingyi XU, Lili FU, Yihai LU

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- 628. Characterization of Volatile Organic Compound Emissions from A Wastewater Treatment Plant. **Hakan Pekey**, Kadir Ulutaş, Selami Demir, Faruk Dinçer.
- 630. GHG Emissions from Various Sanitation Options: a case of Patna Municipal Corporation Area, India. **Dineshwar Prasad Singh**, Nityanand Singh Maurya
- 634. Insight into the Sources of PM2.5 at Roadside Micro-Environment in Tianjin, China. Shi-Bao Wang, **Ya-Qin Ji**, Lei Zhang
- 639. Characterizing Spatial Distribution of Coarse Particle Concentrations Using Passive Aerosol Sampler in Kocaeli, Turkey. **Beyhan Pekey**, Robert D. Willis
- 800. Seasonal Control on Shape Modification of Suspended Particulate Matter from Northern Indo-Gangetic Alluvial Plain. *Munmun Chakarvorty** and Jayanta Kumar Pati.
- 803. Anthropogenic Spherules as a Major Pollution Indicator in Urban Area. Ambalika Niyogi
- 828. Characteristics of PAN Pollution during 2015 Winter Haze Episode in Beijing. Boya Zhang and Jianbo Zhang

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- 748. Removal of Vapour Phase Methanol in the Presence of Thiosulphate Using Anaerobic Biotrickling Filter. Mekonnen Maschal Tarekegn, Eldon Raj Rene Jack van de Vossenberg and Piet N. L. Lens
- 849. Degradation of Ternary Mixture of Trihalomethanes in a Biotrickling Filter Seeded with Biosurfactant and Fungi. **Sanaiya Islam**, George Sorial, and Bineyam Mezgebe

02-07 Catalysts for Reducing Emission

- 509. A Novel $Cu_w Mg_{2-w} Mn_y AI_{1-y}O_x$ Catalyst from LDHs for NH_3 -SCR Catalyst and Resistance to Its SO₂ and H₂O. **Qinghua Yan** and Qiang Wang
- **517.** Effect of Si/Al Ratio on Catalytic Performance of Hydrothermally Aged Cu-SSZ-13 for the NH3-SCR of NO in Simulated Diesel Exhaust. **Jin Cheng**, Shuai Han, **QingYe**, Shuiyuan Cheng, Tianfang Kang
- 526. The Effect of Copper Exchange Level on the Hydrothermal Stability of CuSSZ-13 Catalysts for NH3-SCR. **Shuai Han**, Jin Cheng, **Qing Ye***, Shuiyuan Cheng, Tianfang Kang
- 688. Effects of Nanoparticle Based Fuel Additives on Diesel Engine Performance and Emissions. Asanga Wijesinghe, Fanxu Meng, Carolyn LaFleur and Richard Haut

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- 601. The Role of Building Materials and Architectural Spaces on Urban Health Quality in Nigerian Cities: A Case Study of Aba Urban Informal Settlements. **Ikechukwu Onyegiri,** Iwuagwu, Ben Ugochukwu; Nwankwo, Stephen Ikpendu
- 605. Performance of Venturi Scrubber for the Removal of Dust Particle. Manisha Bal *, and B. C. Meikap
- 649. The Effects of Construction Materials and Construction and Demolition Waste on Urban Health Quality in Nigeria: The Way Forward. **Ben Ugochukwu Iwuagwu**, Ikechukwu Onyegiri, Marcellinus Okafor

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- 547. Modeling of fate and transport of Contaminant in Groundwater due to the leachate from a Municipal Solid Waste Dumpsite and Reclamation: A Case Study. **Charles P Joseph** and S. Mohan
- 719. Polycyclic Aromatic Hydrocarbons in Soils from the Central-Himalaya Region: Distribution, Sources, and Risk Assessment. **Wei Luo**, Xiang Bi, and Jiajia Gao.
- 729. 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

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- 595. Interacting Effects of Salinity, Sewage Sludge, and Earthworms on the Fractionation of Heavy Metals in Soil around A Lead-Zinc Mine. **Ghasem Rahimi**, Fatereh Karimi
- 827. An Investigation into the Microbial Attenuation of Hydrocarbon Contaminated Soil. Grace Zvinowanda and **Memory Tekere**

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- 558. Enhanced Fenton Degradation of Polychlorinated Biphenyls in Capacitor-Oil-Contaminated Soil by Chelating Agents. Ling Zhao, Xiao-Hong Ma, and Yuan-Hua Dong
- 559. Leachate Pollution Control using Combined Bioreactor Composite Aggregate Approach. Mohan S and Vijay V. Nair
- 773. Modified Fenton's Oxidation for Pallikaranai Wetland Remediation. Ambika Selvaraj
- 824. Modification of Soil Properties Using Human Hair Fiber. Sunita Kumari, Gautam Kumar and Shankar Suman

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- 524. Exploring the Opportunity for Organic Household Waste (OHW) Management Options: An Empirical investigation for Muharraq City. Sumaya Yusuf Abbas
- 640. *Life Cycle Assessment of Bioplastics and Food Waste Disposal Methods.* **Shakira R. Hobbs**^{*}, Tyler Harris¹, William J. Barr² and Amy E. Landis³
- 657. Utilization of Phosphogypsum to Reduce Greenhouse Gases Emissions and to Improve the Conditions of Calcareous Soil on the Kingdom of Saudi Arabia. **Saud S. AL-Oud,** Fahad N Al-Barakaha and Adel RA Usman
- 680. The Effect of Removal Grit from Dewatered Sludge through Enhanced Hydrolysis Centrifuge on Anaerobic Digestion. Xiaohu Dai, **Guopeng Wang**, Dong Zhang
- 711. Review of Solid Waste Management in Indian Towns From Conservation Perspective of River Ganges. Nadeem Khalil, Mohammad Bilal
- 713. A New Concept for Utilization of Industrial Solid Wastes in Building Structures. Arunima Shukla and Ashok N. Bhaskarwar
- 723. Biodrying Technology for Municipal Solid Waste Treatment. Asha P Tom, Ajit Haridas, Renu Pawels
- 739. Characterization and Leaching Assessment of Toxic Metals in Municipal Solid Wastes in Southwest, Nigeria. Adebola Abosede Adeyi, Adewale Muyiwa Adeyemi
- 740. Leaching Assessment of Toxic Metals in Solid Wastes Generated in Tertiary Institutions in Ibadan, Nigeria. **Adeyi**, **A. A**^{*} and Ojeabulu, V
- 788. Municipal Waste Generation and Their Possible Management System in Dhaka City Corporation: Commercial Approaches. **Md. Iftakharul Muhib** and M. Khabir Uddin.
- 793. Synergy of Sludge, Food Waste Disposal and MSW Incineration in a Commercial Plant. Wu Xiao
- 809. Assessment of Stability and Maturity of Compost Made of Municipal Solid Waste and Different Types of Bulking Agents by Chemical and FTIR Method. **Nabam Rich**, Ajay Bharti
- 829. Analysis of Municipal Solid Waste Producing Law and Internet Technology-Based Enterprises in China. Jinyan Li, Haizhen Yang
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- 786. Benzo(a)pyrene Biodegradation by Bacterial Candidate Paenibacillus sp HD1PAH and Arthrobacter Nicotianae HD2PAH. **Hemen Deka**

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- 796. Enhancing Soil Productivity through Biochar Application to Heavy Metal Polluted Soil. O. O. Awotoye, Olofinjana Olubukola
- 731. Anaerobic Landfill Leachate Characteristics in Dry Climate. Rouhallah Mahmoudkhani, Lobat Taghavi, Zahra Saadat Yeganeh, Reza Naghavi

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- **706.** Waste Management, Treatment and Disposal at Kuwait Oil Company (KOC). Zainab Hussain, **Kholood Yousef**, Soud AL-Mutairy, Haitham Fouzy
- 718. Bio-Ethanol from Pretreated Food Waste Hydrolysate Using Immobilized Saccharomyces Cerevisiae under Photo and Dark Fermentation. **Marttin Gundupalli Paulraj** and Debraj Bhattacharyya
- 722. Technological and Life Cycle Assessment of Organics Processing Odour Control Technologies, **Navin Bindra**, Brajesh K Dubey and Animesh Dutta
- 734. Direct Shear Testing of Sand Reinforced with Pellets Recycled from Polyethylene (Plastic) Bag Waste Material. Faridah Chebet and Denis Kalumba
- 761. Environmental and Economic Assessment for Waste Rare Earth Phosphor Recycling By Dual Hydrochloric Acid Dissolution. **Shengen Zhang**, Yifan Liu, Bo Liu, Hu Liu, Alex A. Volinsky
- 615. Indigenization to Improve Access to Affordable Refuse Disposal Services in Non-Urban South African Households. *Fannie Machete*
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- 682. Decontamination of Liquid Effluents from Uranium Mine by Using Natural Zeolite. Ahmet Erdal Osmanlioglu
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- 654. Potentialities of Six Plant Species on Phytoremediation Attempts of Fuel Oil-Contaminated Soils. **Matsodoum N. P.** , Djumyom Wafo G. V., Djocgoue P. F., Kengne Noumsi I. M., Wanko N. A.
- 795. Enhanced Phytoremediation Using Endophytic Microbes. ANYASI, RO., ATAGANA, HI.

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- 697. Risk Reduction / Cost Savings by Effective Oil Spill Response and Spill Countermeasure Plans. **Steven Pedigo**, Diane Wagenbrenner, Cody Kaduce, Paul W. Sammarco
- 712. Seasonal Influence of Glyphosate Herbicide Application on Soil Bacteria in Benue State, North Central Nigeria. Iheukwumere, C.C, **Ella, A.B***, Oluma, H.O.A and ELLA, F.A
- 720. Contamination and Risk of Emerging Pollutants in Rapidly Urbanization Coastal Areas along the Bohai and Yellow Seas, China. **Tieyu Wang**, Jing Meng, Pei Wang, Yonglong Lu.

- 782. *Ecosystem Level Carbon Source-Sink Analysis Using EC Data and LUE Model.* **S.P.S. Kushwaha**, T. Watham, N.R. Patel, and S. Nandy
- 805. Sustainable Housing and Building Performance Assessment Systems. Deepa G. Nair and Santhosh John
- 812. Bounties of a Bleak Landscape! Joystu Dutta and Arun Kumar Roy Mahato

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- 790. Residues of Hexachlorocyclohexane Isomers and Metabolites in the Agricultural / Industrial Soil and Water Samples of Orissa and Evaluation of the Toxicity of These Compounds in Human Breast Cancer Cell Line. Lopamudra Ray, Purushottam Mohapatra, **Ananta Narayan Panda***, Samir Mishra, , Chanakyanath Kundu, Mrutyunjay Suar and Vishakha Raina
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- 537. Multigeneration Effects of Pentachlorophenol and 2,2',4,4'-tetrabromodiphenyl ether on Folsomia Candida. Min Qiao and Qian-qian Zhang
- 555. Genotoxicity and Cytotoxicity of Nine Benzothiazoles: Development and Application of A High Content Screening in Vitro Micronucleus Test for Genotoxicity and Cytotoxicty Assessment. **Mei Ma**, ChaoHuang, Ye Yan, Na Li, Kaifeng Rao, Yiping Xu
- 607. Acute and Chronic Effects and Multi-biomarker Assessment of Metal Nanoparticles on Carassius auratus. Jun Xia, Guanghua Lu, **Jun Hou**
- 676. Toxicity of silver Nanoparticles on E. crypticus in Soils Applied with Biosolid: Effect of Transformation Ratio to Silver Sulfide Nanoparticles and Biosolid Application Rates. **Emel TOPUZ** and Ismail KOYUNCU
- 701. In Vitro Study on the Joint Hepatoxicity upon Combined Exposure of Cadmium and BDE-209. Lixin Wang, Tong Wu, Lulu Zhang, Jiansheng Cui.
- 741. Role of Purslane oleracea against Manganese Toxicity in Hepato-Renal Tissues. A. C. Verma
- 791. *Toxicological Assessment of Pharmaceutical Effluent to Clarias Gariepinus (Burchell, 1822). O. A. Eleyele*,* and O. T. Aladesanmi
- 804. Enzymes as Biomarkers of Environmental Stress in African Catfish (Clarias Gariepinus) Burchell, In Osun State, Nigeria. **O. T. Aladesanmi**^{*}, F. K. Agboola and R. E. Okonji
- 836. Trans-Generational Immune Toxicity Effect of Benzo[A]Pyrene on <u>oryzias melastigma.</u> Xiaohan Yin and **Kejian** Wang
- 837. Persistent Physiological Concentration ROS Generated by BaP Exposure Blocking NF-κB Pathway in Medaka (<u>Oryzias melatigma</u>). **Qian Cui**, and Kejian Wang
- 851. Nanoparticles as Emerging Contaminants of Concern: Ecotoxicity Effects on the Growth and Survival of Bacteria. **Sidney Stokes**, Lucas Ringo and Lynal Albert

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- 557. Organotin Contamination in Commercial and Wild Marine Bivalves from China: Increasing Occurrence of Triphenyltin after the TBT Ban. **Chunzhao Chen**, Qinghui Huang, and Wen Zhang
- 715. Bioconcentration of Diclofenac in Crucian carp and Its Influence Factors. Guanghua Lu*, Jiannan Ding, and Zhenghua Zhang

766. Interactive Effects of UV Filters, nTiO2 and BP3, on Crucian Carp (Carassius carassius). Zhenhua Yan and Guanghua Lu

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- 516. Comparison of Inactivation of Disinfectant- and Antibiotic- Resistant Bacteria by Free Chlorine and UV. **Jingyu Wang** and Minghao Sui
- 545. Effects of Soil Moisture on Biodegradation of Atrazine by DN36. Yang Chen and G. Daniel Sheng.
- 648. Community Structure of Microorganisms in Crude Oil Polluted Mangrove Swamp in Niger Delta, Nigeria. **Nwankwo, Chika Christiana**, Obidiugwu, Victor and Okpokwasili Gideon Chijioke
- 695. Existed to Acquire or Evolved to Destroy? The Story of Bacterial Phosphotriesterases. Dayananda Siddavattam
- 747. Microbial Community Analysis of Anaerobic Digesters during Biotransformation of Nonylphenol Diethoxylate. Fadime Kara Murdoch and F. Dilek Sanin
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- 519. Wetland Conservation and Protection. Kwang, Daniel Kwasi
- 745. Impact of Urban Sprawling on East Kolkata Wetland and on the Ecosystem Functioning of Sundarbans Mangrove Ecosystem, India. Susanta Kumar Chakraborty, Poulami Sanyal, Nandan Bhattacharyya, Ratnadip Roy and Sumana Bandhopadhayay

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- 561. Assessment of Quality of Sediments and Nutrients with Land Use Land Cover Changes in Cahaba River Basin Using SWAT. **Pooja P. Preetha**, Mohammad Z. Al-Hamdan and Michael D. Anderson
- 593. Assessment of the Impact of Land Cover and Land Use Changes on the Water Quality of Sediments and Nutrients in Cahaba River Basin Using SWAT. **Pooja P. Preetha**, Ashraf Z. Al-Hamdan, and Michael D. Anderson

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- 638. Hexabromocyclododecane (HBCDD) Biodegradation in Anaerobic Sediment Mesocosms. Irem Karahan, Hale Demirtepe and Ipek Imamoğlu
- 844. Enhanced Nitrogen Removal by the Integrated Constructed Wetlands with Artificial Aeration. Jizheng Pan

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- 580. Integrated Resilience Study on Energy Security Under Drought. Foroogh Shadman, Mahmoud Moghavvemi
- 609. Quantifying the Vulnerability of the Bayelsa State Environment in Nigeria to Climate Change Driven-Biodiversity Loss: The Role of Early Mitigation Sustainable Development Strategy (EMSDS). **A.O. Nwaoburu**, K. K. Omonibeke, E.N. Ekaka-a
- 627. A Socio-Epidemiological Study on Global Climate Change and Malaria Risk in Lombok, Indonesia: 2005-2014. *Hisayoshi MITSUDA*
- 710. Effects of Global Warming on Reproductive Functions, Heat Shock Protein Expression and Cellular Apoptosis of Eastern Oyster Gonad. Sarah Nash, and M.D Saydur Rahman.
- 716. Impacts of Climate Changes on the Natural Disasters of Bangladesh. M. A. Sattar

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- 573. The Impact of Saw-Dust Biochar on Soil pH and Crop Yields for Climate Change Mitigation. George Elambo Nkeng, Martha Eneke Munongo, and Jetro Nkengafac Njukeng
- 589. *CO*₂ Absorption Studies Using Amine Solvents with Fourier Transform Infrared Analysis. **Funmilola Avoseh**, Khalid Osman, Paramespri Naidoo and Deresh Ramjugernath.
- 725. Sequestration and Storage Capacity of Carbon in the Mangrove Vegetation of Sundarban Forest, Bangladesh. **Towhida Rashid**, Sirajul Hoque, Anupa Datta

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09-1 Metal Distribution

- 515. *Heavy Metals Accumulation Potential of Some Selected Tropical Plant Species.* **Awotoye, O.O.**; Ogunbanjo, O.R.; Okanlawon, F.B.; Ajayi,O.E.; Okeleke S.O and Alao, J.O
- 556. Accumulation and Sources of Trace Metals in Roadside Soils in Shanghai, China: A Case Study of Two. rban/Rural Roads. **Geng Yan**, Ling Chen, and Lingchen Mao.
- 576. Vertical Distribution and Chemical Behavior of Uranium in the Tailings Material of Schneckenstein (Germany). **Taoufik Naamoun**, Broder Merkel

09-2 Metal Removal and Remediation

- 501. *Relative Efficiency of Some Selected in the Uptake of Heavy Metals from Industrial Effluents.* **Ojekunle, Z.O.,** Erinle O. and Bada B.S.
- 666. The Pomelo Peel and the Powdered Pomelo Peel as New Sorbents for Removal of Chromium from Aqueous Solution. Wang Qiong
- 721. Ameliorative Effects of <u>Rosmarinus officinalis</u> Leaf Extract and Vitamin C on Cadmium-Induced Oxidative Stress in Nile Tilapia Oreochromis niloticus. **Promy Virk**, Mai Elobeid
- 750. Silver Recovery: Silver Ion Toxicity. S. Syed
- 754. Fast Microwave-Assisted Preparation of EDTA Dianhydride Modified Jute Fiber for Heavy Metals Removal. Zhaolin DU, Tong ZHENG, Peng WANG
- 848. Accumulation of Metals and Hydrocarbons in Mangrove sediments of Arabian Gulf at the Eastern Province of Saudi Arabia. Md Iqram Uddin Al Amran, Omer Al Alhaiqi, Abideen Ojo Salawudeen and Mohamed Ali Qurban

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737. Levels of Heavy Metals in Organs of <u>Oreochromis Niloticus</u> from Great Kwa River, South-East Nigeria Juliet M. Yakubu

09-4 Phytoremediation

- 539. *Phytoremediation Potentials of Cedrela Odorata Seedlings in Dumpsite Contaminated Soil.* **Akintola O.O.,** Bodede A.I., Aderounmu A. F., Kolawole E.A., and Ibode T.R.
- 540. Potentials of Cedrela Odorata Seedlings in Removing Heavy Metals from Sewage Sludge Amended Soil. **Akintola O.O.**, Aderounmu A. F., Bodede A.I., Kolawole E.A., and Ibode T.R.

09-05 Metal Processing

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- 726. Bioaccumulation and Trophic Transfer of Tetrabromobisphenol-A Flame Retardant in an Aquatic Food Web. Jiang-Ping Wu and Bi-Xian Mai
- 751. Analysis of Nonylphenol Compounds in Aquatic Environment Using Gas Chromatography-Mass Spectrometry. Seçil Ömeroğlu, Fadime Kara Murdoch and Faika Dilek Sanin

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- 525. Evolutionary Design and Calibration of District Metered Area of Water Supply Network Systems Using Numerical Methods and Hydraulic Software. **Rameshwar Rao**, Aadhi Naresh and M. Gopal Naik
- 551. Investigation of a Chlorinated Hydrocarbon Plume Close to a Surface Water Body A Case Study. **Sonja Schröter**, Wilfried Schneider
- 658. Three Dimensional Full-Loop Simulation of a Circulating Fluidized Bed Gasifier. Vikrant Sharma, V.K. Agarwal
- 670. Numerical Simulation of Dissolved Oxygen, Algal Biomass, Nitrate, Organic Nitrogen, Ammonia, and Dissolved Phosphorus in Waste Stabilization Ponds. **Sina Nejati** and Seyed Ahmad Mirbagheri
- 683. Numerical Analysis for a Series of Recent Catastrophic Floods (2011-2017): New Verification of the Groundwater and Tectonic Processes Possible Impact. **T. Trifonova**, S. Arakelian, D. Trifonov, S. Abrakhin, V. Koneshov, A. Nikolaev
- 696. An Analytical Solution to the Problem of Ponded Ditch Drainage in a Stratified Soil. **Gautam Barua** and Subhadeep Chakrabarti
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- 775. Shadow Detection and Removal with Analysis Techniques for Object Tracking. Sameer Ali
- 813. Improving Human Health in China through Alternative Energy. Melissa Scott, Robert Sander, Greg Nemet, Jonathan Patz

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- 552. Assessment of Soil Quality Using Decision Tree by Integration of Spatial Distribution of Soil Physio-Chemical Properties Using GIS. **Mohamed A.E. AbdelRahman**^{*}, Salah A. Tahoun
- 597. Geospatial Assessment of Selected Wheat Producing Areas of Punjab, Pakistan. Sheikh Saeed Ahmad
- 629. Groundwater Exploration and Geochemical Analysis of Its Sediments: A GIS Approach to Combat Climate Change for Sustainable Water Resource Management. **Satyanarayan Shashtri**, Salanieta Tuisuva, and Chander kumar Singh
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- 705. Influence of Physical Properties and Constitutions of Soil on the Laser Induced Fluorescence Spectra of PAHs in Soil. **Deshuo Meng,** Nanjing Zhao^{*}, Yao Huang, Zhaolu Zuo, Mingjun Ma, Xiang Wang, Wenqing Liu and Jianguo Liu

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- 563. *Hydrogen Production from Spirulina Algae by Atmospheric Pressure Microwave Plasma.* Sumarlin SHANGDIAR, Ken-Lin Chang, Yu-Chieh Lin, Feng-Chih Chou, Yi-Hsing Hsiao, *Yuan-Chung Lin*
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