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Liangtong Zhan · Yunmin Chen  
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# Proceedings of the 8th International Congress on Environmental Geotechnics Volume 1

Towards a Sustainable Geoenvironment

 Springer

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# Preface

Issues associated with environmental geotechnics continue to be a major preoccupation for governments, public and private organizations and the general community around the world. With the support from the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and the Technical Committee of Environmental Geotechnics (TC215), the Environmental Geotechnics Congress Series has been held regularly since 1994 (Canada 1994; Japan 1996; Portugal 1998; Brazil 2002; UK 2006; India 2010; Australia 2014) and established itself as a highly influential forum for exchange and discussion on the subject. Following the success of 7ICEG in Melbourne, 2014, the 8th International Congress on Environmental Geotechnics (8ICEG) held on 28 October–1 November 2018 in Hangzhou, China, continues tackling challenging issues in the broad range of environmental geotechnics.

The congress theme is “Towards a Sustainable Geoenvironment”. “Sustainable Development is to meet the needs of the present without compromising the ability of future generations to meet their own needs”. Geoenvironment is a specific compartment of the environment and comprises portions of geosphere, hydrosphere and biosphere. Under this theme, the congress will cover a broad range of topics and will provide an excellent opportunity for academics, engineers, scientists, government officials, regulators and planners to present, discuss and exchange the latest advancements and developments in the research and application of environmental geotechnics.

Out of 340 abstracts received, 8ICEG chose 255 full manuscripts and 6 extended abstracts submitted from 28 countries and regions in 5 continents for publication in this conference proceedings, which provides a platform for scholars and practitioners to share and exchange their experiences with their peers, especially with those from developing countries with impending geoenvironmental issues. There are several features of the proceedings:

- Eleven comprehensive manuscripts, together with 6 extended abstracts, were contributed from the Plenary Lecturers from 11 countries, which includes 8 academicians, 4 editors of major journals and 6 chairpersons of international

renowned organizations. Their contributions provided in-depth insights into the chosen topics.

- Emerging topics, such as sustainability, bio-geoengineering and geoenvironmental aspects in energy geotechnics have strong appearance, which suggests developments towards a better living geoenvironment is the focus for future developments.
- Manuscripts from “Belt and Road Countries” emerged and showed strong presence in 8ICEG, including 24 manuscripts from 10 countries. Environmental problems in those countries take high priority for the governments.

Financial supports from the National Natural Science Foundation of China (41842018) and the Chinese Program of Introducing Talents of Discipline to University (the 111 Project, B18047) are acknowledged. The time and efforts of the associate editors and the reviewers for the proceedings are greatly appreciated.

We hope you enjoy 8ICEG in the beautiful city of Hangzhou!

Sincerely yours,

Liangtong Zhan  
Yunmin Chen  
Abdelmalek Bouazza  
Editors of the Proceedings of 8ICEG

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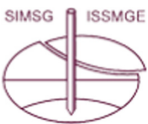


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## List of Plenary Lectures

Speakers	Affiliation	Topic
<b>Distinguished Lecture</b>		
Kerry Rowe	Queens University, Canada	Environmental Geotechnics: Past, Present and Future
<b>Kerry Rowe Lecture</b>		
Mario Manassero	Politecnico di Torino, Italy	On the Fabric and State Parameters of Active Clays for Contaminant Control
<b>Keynote Lectures</b>		
Craig Benson	University of Virginia, USA	Sustainability in Reuse of Solid Wastes
Ningwu Chang	California EPA, USA	Brownfield Redevelopment at Contaminated Landfill Site
Yunmin Chen	Zhejiang University, China	Waste Mechanics and Sustainable Landfilling Technology: Comparison between HFWC and LF WC MSWs
Hywel Thomas	Cardiff University, UK	Deep Ground and Energy: Carbon Sequestration and Coal Gasification
<b>Invited Lectures</b>		
Malek Bouazza	Monash University, Australia	Failures in Containment Systems: Lessons Learned
Michael A. Celia	Hamburg University, Germany	Modeling Geological Storage of Carbon Dioxide with a Focus on Leakage Risk Assessment
Pierre Delage	Ecole des ponts Paris Tech, France	Micro-macro Effects in Bentonite Engineered Barriers for Radioactive Waste Disposal
Nathalie Touze Foltz	Irstea, France	Performance Issues of Barrier Systems for Landfills
Stephan Jeffries	Environmental Geotechnics Limited, UK	Low Permeability Vertical Barriers: The State of the Art and the Research Needs for the Future

Takeshi Katsumi	Kyoto University, Japan	Towards Sustainable Soil Management Reuse of Excavated Soils with Natural Contamination
Ed Kavazanjian	Arizona State University, USA	Biogeotechnical Engineering Applications for Environmental Protection and Restoration
Olaf Kolditz	Dresden University of Technology, Germany	Workflows in Environmental Geotechnics: Status-Quo and Perspectives
William Powrie	University of Southampton, UK	Climate and Vegetation Impacts on Infrastructure Cuttings and Embankments
Krishna Reddy	University of Illinois at Chicago, USA	Risk, Sustainability and Resiliency Considerations in Polluted Site Remediation
Devendra Narain Singh	Indian Institute of Technology, India	Centrifuge Modeling of Contaminant Transport in Geomaterials
Rainer Stegmann	Hamburg University, Germany	Development of Waste Management in The Last 30 Years
Antonio Thome	University of Passo Fundo, Brazil	Remediation Technologies Applied in Polluted Soils: New Perspectives in This Field
Fuming Wang	Zhengzhou University, China	Jet Grouting for Leakage Prevention
<b>General Report</b>		
Charles Shackelford	Colorado State University, USA	Pollutant Transport
William Powrie	University of Southampton, UK	Waste Mechanics

# Contents

## Plenary Lectures

<b>Waste Mechanics and Sustainable Landfilling Technology: Comparison Between HFWC and LFWC MSWs</b> . . . . .	3
Yunmin Chen, Liangtong Zhan, and Wu Gao	
<b>Deep Ground and Energy: Carbon Sequestration and Coal Gasification</b> . . . . .	38
H. R. Thomas, L. J. Hosking, R. J. Sandford, R. Zagorščak, M. Chen, and N. An	
<b>Micro-Macro Effects in Bentonite Engineered Barriers for Radioactive Waste Disposal</b> . . . . .	61
Pierre Delage	
<b>Performance Issues of Barrier Systems for Landfills</b> . . . . .	81
Nathalie Touze-Foltz, Haijian Xie, and Guillaume Stoltz	
<b>Towards Sustainable Soil Management — Reuse of Excavated Soils with Natural Contamination</b> . . . . .	99
Takeshi Katsumi, Toru Inui, Tetsuo Yasutaka, and Atsushi Takai	
<b>Workflows in Environmental Geotechnics: Status-Quo and Perspectives</b> . . . . .	119
Olaf Kolditz, Uwe-Jens Gorke, Haibing Shao, Hua Shao, and Thomas Nagel	
<b>Climate and Vegetation Impacts on Infrastructure Cuttings and Embankments</b> . . . . .	128
William Powrie and Joel Smethurst	
<b>Risk, Sustainability and Resiliency Considerations in Polluted Site Remediation</b> . . . . .	145
Krishna R. Reddy, Girish Kumar, and Yan-Jun Du	

**Centrifuge Modeling of Contaminant Transport in Geomaterials** . . . . . 164  
D. N. Singh and D. N. Arnepalli

**Development of Waste Management in the Last 30 Years** . . . . . 172  
Rainer Stegmann

**Remediation Technologies Applied in Polluted Soils: New Perspectives  
in This Field** . . . . . 186  
Antônio Thomé, Cleomar Reginatto, Guilherme Vanzetto,  
and Adeli B. Braun

**Environmental Geotechnics: Past, Present and Future?** . . . . . 204  
R. Kerry Rowe

**On the Fabric and State Parameters of Active Clays  
for Contaminant Control** . . . . . 206  
Mario Manassero

**Brownfield Redevelopment at Contaminated Landfill Site** . . . . . 208  
Ning-Wu Chang

**Modeling Geological Storage of Carbon Dioxide with a Focus  
on Leakage Risk Assessment** . . . . . 210  
Michael A. Celia

**Low Permeability Vertical Barriers: The State of the Art and the  
Research Needs for the Future** . . . . . 212  
Stephan Jefferis

**Biogeotechnical Engineering Applications for Environmental  
Protection and Restoration** . . . . . 215  
Edward Kavazanjian Jr.

**Geotechnical Recycling and Reuse of Waste Materials**

**Application of Soil Improvement Material Using Recycled Gypsum  
Considering the Environmental Safety** . . . . . 219  
Kenichi Sato, Takuro Fujikawa, and Chikashi Koga

**Effects of Lime Stabilization on Hydraulic Behavior of Finnish Soft  
Sensitive Clays** . . . . . 226  
M. Di Sante, F. Giorgetti, B. Di Buò, T. Länsivaara, and E. Pasqualini

**Geotechnical Parameters of Mixtures of a Tropical Soil with Water  
Treatment Sludge** . . . . . 235  
Edy L. T. Montalvan and Maria E. G. Boscov

**Physicochemical Treatment of Dredged Clay Slurry Waste for Land Reclamation Purpose** . . . . . 243  
 Rong-jun Zhang, Chao-qiang Dong, and Jun-jie Zheng

**The Effects of Temperature on Hydraulic Conductivity of Remolded Sewage Sludge** . . . . . 250  
 Wei-an Lin, Pei Zhang, Liang-Tong Zhan, Kai-Xi An, and Xin-jie Zhan

**Study on Three-Dimensional Micro-porosity of Solidified Sludge Under Biodegradation Based on ArcGIS Technology** . . . . . 258  
 Lei Li and Jinxiang Yi

**A Rheological Approach for the Evaluation of Geotechnical Use of Water Treatment Sludge** . . . . . 264  
 Juliana K. Tsugawa, Roberto C. de O. Romano, Rafael G. Pileggi, and Maria Eugenia G. Boscov

**Adsorption of Cadmium from Aqueous Solutions onto Activated Carbon and Recycle Materials** . . . . . 273  
 Xiaofeng Liu, Xin Xu, Xiaoqiang Dong, and Junbom Park

**Combination of Porous Ecological Concrete and Geocell in Riverbank Protection** . . . . . 280  
 Y. Zhuang and H. L. Xiao

**Consolidation of Dredged Sediments in a Confined Disposal Facility: Hydraulic Conductivity Constitutive Relations** . . . . . 288  
 Mirko Felici, Jonathan Domizi, and Evelina Fratolocchi

**Effect of Crumb Rubber on Mechanical Properties of Crushed Recycled Pavement Materials** . . . . . 295  
 Mohammad Saberian and Jie Li

**Engineering Performance and Its Mechanism of Expansive Soils Modified by Adjusted and Activated Steel-Slag** . . . . . 304  
 Jun Wu, Qianwen Liu, Yongfeng Deng, and Qi Feng

**Evaluation and Optimization of the Granulated Blast Furnace Slag-Natural Sand Mixture Hardening Properties** . . . . . 311  
 Tomomi Sakata, Noriyuki Yasufuku, and Ryohei Ishikura

**Evaluation of Environmental Safety on Municipal Solid Waste Incineration Bottom Ash Using Aging Method** . . . . . 320  
 Takuro Fujikawa, Kenichi Sato, Chikashi Koga, and Hirohumi Sakanakura

**Experimental Research on Recycled Concrete Road Base of Geopolymer Technology** . . . . . 328  
 Y. Zhuang and H. L. Xiao



<b>Experimental Study on Recycling of Waste Concrete Based on Geopolymer Technology</b> . . . . .	336
Zhi Duo Zhu, Su En Gu, Zhen Tang, and Lei Song	
<b>Feasibility of Reuse of Bottom Ash from MSW Waste-to-Energy Plants in India</b> . . . . .	344
Garima Gupta (El), Manoj Datta, G. V. Ramana, B. J. Alappat, and Shashank Bishnoi	
<b>Influence of Biochar Obtained from Invasive Weed on Infiltration Rate and Cracking of Soils: An Integrated Experimental and Artificial Intelligence Approach.</b> . . . . .	351
Phani Gopal, Raval Ratnam, Muhammad Farooq, Ankit Garg, and Nirmali Gogoi	
<b>Influence of Tire Derived Aggregates as Alternative Fine Aggregates on Engineering Properties of Low Strength Concrete</b> . . . . .	359
Zhaohui Li, Jianxun Shi, Mingqiang Wei, and Junjie Xuan	
<b>Lead Adsorption by Biomass and Weathered Coal Fly Ashes</b> . . . . .	367
Xenia Wirth, N. N. Nortey Yeboah, and Susan Burns	
<b>Management of the Soils Discharged from Shield Tunnel Excavation</b> . . . . .	374
Muneyuki Yamana, Yasuo Tomizawa, Teruyuki Fujiwara, Kazuma Mizuta, Katsumi Mizuno, Toru Inui, Takeshi Katsumi, and Masashi Kamon	
<b>Performance of Lateritic Soils Stabilized with Both Crushed Rock Aggregates and Carbon Black as a Pavement Base Layer</b> . . . . .	382
Brian Tugume, Isaac Owani, Samuel Jjuuko, and Denis Kalumba	
<b>Pore Size Distribution and Hydraulic Conductivity Characteristics of Solidified Sewage Sludge</b> . . . . .	389
Xihui Fan, Wei Zhu, Haoqing Xu, Shengwei Wang, and Shi Shu	
<b>Recycling Application of the Construction Waste in Silt Subbase: A Case Study</b> . . . . .	397
Xin Jin, Haoran Zhu, Yongfeng Deng, and Qi Feng	
<b>Stabilization/Solidification of Ladle Slag in Cement-stabilized Clay</b> . . . . .	403
Bo Xu, Kimberly Sze Ern Yeap, and Yaolin Yi	
<b>Study on Dynamic Characteristics of Over-Wet Loess Modified by Red Mud Under Cyclic Loading</b> . . . . .	410
Dong Xiaoqiang, Chen Ruifeng, and Tian Gaoyuan	
<b>Synthesis and Characterization of Geopolymers from Coal Gangue, Fly Ash and Red Mud</b> . . . . .	420
Kunga Dondrob, Nevin Koshy, Qingbo Wen, and Liming Hu	

**Effect of Adsorbent Dosage to Adsorbate Concentration Ratio on the Adsorption of Cd(II) on Coal Gangue** . . . . . 428  
 Zili Tang, Hui Wu, Qingbo Wen, and Liming Hu

**Status and Opportunities for Materials Recovery from Municipal Solid Waste in Kathmandu Valley, Nepal** . . . . . 436  
 Dhundi Raj Pathak and Bandita Mainali

**Numerical Investigation on Utilization of Natural Contaminated Soil in the Embankments** . . . . . 444  
 Feyzullah Gulsen, Toru Inui, Tomohiro Kato, Atsushi Takai, and Takeshi Katsumi

**Transport, Persistence and Fate of Pollutants**

**Experimental Study of the Factors Influencing Heptane Volatilization from Sands** . . . . . 455  
 Wei Qibing, Liu Zhibin, Liu Songyu, Wang Yi, Mao Boyang, and Liu Feng

**Ammonium and BPA Sorption for GCL** . . . . . 462  
 Stella Melgao de Oliveira Pinto, Daniele Maia Bila, and Elisabeth Ritter

**Column Percolation Tests for Evaluating the Leaching Behavior of Marine Sediment Containing Non-anthropogenic Arsenic** . . . . . 469  
 Toru Inui, Mutsumi Hori, Atsushi Takai, and Takeshi Katsumi

**Numerical Parametric Study of Multiple Pollutants Transport Through Compacted Clay Liner** . . . . . 478  
 Shi Shu, Wei Zhu, Haoqing Xu, Xihui Fan, and Shengwei Wang

**Semi-analytical Model for Methane Transport and Oxidation Through Landfill Compacted Clay Liner (CCL) Cover** . . . . . 491  
 Qiao Wang, Jiawei Wu, and Haijian Xie

**The Acceleration of Methane Production by Leachate Recirculation in Pilot Scale in a Landfill** . . . . . 498  
 Lei Liu, Jun Ma, Xin min nan Hui, Yi Dong, and Sai Ge

**Concentrations of the Naturally-Derived Toxic Elements and Its Geochemical Characteristics of the Alluvial Marine Clay Layer of Osaka Plain, Japan** . . . . . 504  
 Hiroko Ito, Harue Masuda, and Akihiko Oshima

**Adsorption Models of Groundwater Remediation by Nanoscale Zero Valent Iron** . . . . . 512  
 Dantong Lin, Zifu Zhang, and Liming Hu

**A Non-equilibrium Adsorption Model Based on Irreversible Thermodynamics** . . . . . 521  
 Zhihong Zhang, Wenlong Qin, Jiapei Zhang, Zhaogang Xu, and Fei Guo

**Benchmarking of FEHM Control Volume Finite Element Solver** . . . . . 528  
 M. D. Fredlund, Shawn Meng, George A. Zyvolosk, Philip H. Stauffer, and Shlomo Orr

**Development of a High-Density Electrical Resistivity Tomography (HERT) System for Monitoring Model-Scale Seepage and Solute Transport** . . . . . 536  
 Tingfa Liu, Yanxia Nie, Liming Hu, Qiyong Zhou, and Qingbo Wen

**How to Perform Hydraulic Conductivity Upscaling in the Daily Practice of Geotechnical Modeler?** . . . . . 544  
 Vanessa A. Godoy, Lazaro Valentin Zuquette, and J. Jaime Gómez-Hernández

**Identification of Processes and Migration Parameters for Conservative and Reactive Contaminants in the Soil-Water Environment** . . . . . 551  
 Anna Sieczka, Eugeniusz Koda, Anna Miszkowska, and Piotr Osiński

**Numerical Modelling of Vapour-Ice Desublimation Process in Unsaturated Freezing Soils** . . . . . 560  
 Jidong Teng, Feng Shan, Sheng Zhang, and Daichao Sheng

**Salt Diffusion Through Sodium Bentonite and Bentonite Polymer Composite** . . . . . 569  
 Shan Tong, Kristin M. Sample-Lord, Gretchen L. Bohnhoff, and Andrew B. Balken

**Sorption of Ammonium in Banana Peel and Orange Bagasse Biochars** . . . . . 577  
 Amanda Alves Feitosa, Elisabeth Ritter, Wenceslau Gerales Teixeira, Fabiana Abreu de Rezende, and Jürgen Kern

**Analysis of the Cause of Formation of Free Phase LNAPL Under Hydrodynamic Interference** . . . . . 585  
 Zhou Honglei, Chen Suyun, Wang Feng, and Du Chuan

**Correction of the Seepage Velocity of Soluble Contaminants in Sand with Different Particle Size Distribution** . . . . . 594  
 Liang Chen, Chongwu Lei, Chunmu Luo, and Yueqi Li

**Extrapolating Kd or Rd from Breakthrough Curves of Cesium Cations Transporting Through a Soil Column** . . . . . 602  
 Xiao Chen, Guan-Nian Chen, Bate Bate, and Yu-Chao Li

**Contaminated Land and Remediation Technology**

**Accumulation of Ammonia via Electrodeionization Barrier for the Groundwater Denitrification** . . . . . 615  
 Xiao Feng, Xu Yang, Wen Liao, Qiong Ren, Haoyue Zheng, and Zucheng Wu

**Phytoremediation of Field Soil with Mixed Contamination** . . . . . 624  
 Krishna R. Reddy and Reshma A. Chirakkara

**Lead Adsorption on Rice Husk as a Function of pH Control**. . . . . 630  
 Paulo Scarano Hemsí and Diego Díez García

**Effect of Na<sup>+</sup> on Removal Behaviors of Heavy Metals from Contaminated Silty Soils Flushed by EDTA** . . . . . 637  
 Yan Wang, Jiadong Wen, Keke Li, and Yiting Jin

**Estimation of Oil-Contaminated Soils’ Mechanical Characteristics Using Electrical Resistivity** . . . . . 645  
 Hanliang Bian, Songyu Liu, Ya Chu, and Guojun Cai

**Effect of KMP Stabilization on Chemical Properties of a Heavy-Metal Contaminated Site Soil** . . . . . 653  
 Wei-Yi Xia, Yan-Jun Du, Martin D. Liu, Ya-Song Feng, and Yu-Ling Yang

**Performance Evaluation of Stabilised/Solidified Contaminated Model Soil Using PC-Based and MgO-Based Binders** . . . . . 661  
 Fei Wang, Zhengtao Shen, and Haibo Yu

**Diffusion Characteristics of Lead, Zinc, Cadmium in a Novel Phosphate-Based Binder Stabilized Soil** . . . . . 669  
 Ya-Song Feng, Yan-Jun Du, Wei-Yi Xia, and Wei-Wei Ren

**Relationship Between Arsenic Phases and Leaching in Excavated Mudstone After Removal of Leachable Fraction** . . . . . 676  
 Shoji Suzuki and Masahiko Katoh

**Solidification/Stabilization (S/S) of High Concentration Zinc-Contaminated Soils Using Soda Residue** . . . . . 683  
 Fusheng Zha, Jingjing Liu, Yongfeng Deng, Long Xu, Xiangyang Wang, and Xiuhong Yang

**Solidification/Stabilization Remediation of Acid Organic Waste for Impoundment Units Closure** . . . . . 691  
 V. Schifano and F. Lilley

<b>Application of Resistivity CPTU in Evaluating Contaminated Site in Shanghai</b> .....	700
Cong Yan, Guojun Cai, Xuepeng Li, Min Chen, Songyu Liu, Xinrong Mao, Jun Lin, and Hanliang Bian	
<b>Syntheses and Characterization of Titanium Encapsulated Alumino-Silicate Microspheres (TiAS300/500): Promising Materials for the Removal of Azo Dyes from Groundwater</b> .....	707
Venkataraman Sivasankar and Kiyoshi Omine	
<b>A Method for Evaluating Corrosion of Contaminated Soil—Electrochemical Impedance Spectroscopy (EIS) Method</b> .....	716
Bin He, Yong Wang, Ruizhen Xie, Pengju Han, and Xiaohong Bai	
<b>Breakthrough Curve Modelling of ZSM-5 Zeolite Packed Fixed-Bed Columns for the Removal of MTBE</b> .....	724
Yunhui Zhang, Fei Jin, Zhengtao Shen, Rod Lynch, and Abir Al-Tabbaa	
<b>Broadband Complex Dielectric Characterization of Soils by Time Domain Reflectometry</b> .....	731
Yin Jeh Ngui and Chih-Ping Lin	
<b>Environmental Site Assessment at TPH Contaminated Site: A Malaysian Case Study</b> .....	739
Wan Zuhairi Yaacob, Abdul Rahim Samsudin, Mohd Raihan Taha, Ahmad Nazri Saidin, and Shahril Husin	
<b>Experimental Study on Two-Dimensional Hydrodynamic Dispersion of Soluble Pollutants in Soils</b> .....	748
Liang Chen, Jianjian He, and Haixing Hu	
<b>Geotechnical Characterisation of Submarine Sediments from a Polluted Site</b> .....	756
Sollecito Francesca, Cotecchia Federica, and Vitone Claudia	
<b>Hazardous Waste Dumped on the Spoils of an Old Coal Mine (Portugal) – Environmental Rehabilitation of the Site for Reuse</b> .....	764
Antonio Jose Roque and Vitor Monteiro	
<b>Identification of Potentially Contaminated Sites in a Medium-Sized Brazilian City</b> .....	772
G. B. Rampanelli, D. B. Balestrin, and A. Thomé	
<b>Phosphorus Speciation of Sediments of a Mesoeutrophic Lake in Quebec, Canada</b> .....	780
Dileep Palakkeel Veetil, Catherine N. Mulligan, and Sam Bhat	

<b>Phytoremediation of Light Non-Aqueous Phase Liquids</b> . . . . .	788
Sunday Oniosun, Michael Harbottle, Snehasis Tripathy, and Peter Cleall	
<b>Remediation of TCE Contaminated Site by Ozone Micro-Nano-Bubbles</b> . . . . .	796
Zhiran Xia, Liming Hu, Shusaku Kusaba, and Dejun Song	
<b>Seashore MSW Landfill Using Drainage Layer and Thick Soil Cover —Leachate Containment and Post-closure Land Use</b> . . . . .	804
N. Maeda, J. Tsukahara, K. Endo, M. Kamon, and T. Katsumi	
<b>Self-powered Redox Fuel Cell as Feasible Permeable Reactive Barrier for the Removal of Phenol</b> . . . . .	812
Binbin Yu, Wei Xu, Xu Yang, Huimin Zhang, Zheng Fan, and Zucheng Wu	
<b>Stabilization of Smelter Contaminated Soil Using a Sustainable Steel-Slag-Based Binder</b> . . . . .	819
Ya-Song Feng, Yan-Jun Du, Shi-Ji Zhou, and Wei-Yi Xia	
<b>Stabilization of Tropical Peat Using Liquid Polymer</b> . . . . .	826
Nima Latifi, Sumi Siddiqua, and A. Marto	
<b>Study on Influence of Geological Heterogeneity on Migration of LNAPL in Contaminated Site Through Numerical Analysis</b> . . . . .	834
Jinpeng Zhang, Zhibin Liu, Songyu Liu, Qibing Wei, Yi Wang, and Liangliang Lu	
<b>Study on the Characteristics of Heavy Metals Concentrated in Native Plants of Jinchuan Mining Area</b> . . . . .	842
Guo-hua Chang, Tian-peng Gao, Qing Zhang, Ying-quan Chen, Xi-sheng Tai, and Ming-kai Chen	
<b>Temporal Ground Penetrating Radar (GPR) Imaging of an Oil Release Within a Porous Medium: A Description of Anomalous GPR Characteristics During the Degradation Process and a Contaminated Area Determination Method</b> . . . . .	850
Shuai Shao, Xiujun Guo, and Hao Ding	
<b>Study on the Cleaning of Organic Pollutants by Micronano Bubbles in Sandy Soil Foundation</b> . . . . .	859
Ying Liu, Han Ke, Te Ba, and Xiao Wen Wu	
<b>In-Situ Generation of Active Oxidants in Permeable Reactive Barriers</b> . . . . .	868
Xu Yang, Jingbo Yang, Qin Hai Hu, Min Xia, and Zucheng Wu	
<b>Experimental Study on Influencing Factors of Soil Vapor Extraction in Toluene-Contaminated Sandy Soils</b> . . . . .	874
Bai-Yang Mao, Zhi-bin Liu, Song-Yu Liu, and Qi-Bing Wei	

**Toxicity Evaluation of Nano-Zero Valent Iron to Soil  
Indigenous Microorganisms** ..... 882  
Iziquiel Cecchin, Eloisa Fernanda Tessaro, Cleomar Reginatto,  
Antonio Thome, and Krishna R. Reddy

**Author Index**..... 889