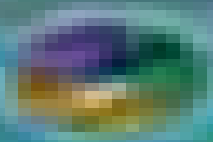


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# Environmental Earth Science Journal

**Silas S. Dada, Samuel B.  
Olobaniyi, Kamaldeen O.L Omosanya**

## **Environmental Earth Science Journal:**

### **Recent Research on Environmental Earth Sciences, Geomorphology, Soil Science, Paleoclimate, and Karst**

Attila Çiner, Md Firoz Khan, Amjad Kallel, Jesús Rodrigo-Comino, Mario Parise, Rahim Barzegar, Zeynal Abiddin Ergüler, Nabil Khelifi, Imran Ali, 2023-12-16 This edited book is based on the accepted papers for presentation at the 1st MedGU Annual Meeting Istanbul 2021 With two parts spanning a large spectrum of environmental geomorphological and geoarcheological topics and a third part on caves and karst which includes research studies gathered on the occasion of the International Year of Caves and Karst 2021 this book presents a series of newest research studies that are nowadays relevant to Middle East Mediterranean region and Africa The book gives a general overview on current research focusing on geoenvironmental issues and challenges in environmental management in the Middle East and Mediterranean region and surrounding areas It offers a broad range of recent studies that discuss the latest advances in geomorphology landslides soil science paleoclimate and geoarcheology It also shares insights on cave and karst studies including speleology cave and karst explorations geomorphology hydrogeology geoethics prehistoric eras in karst geotectonics and the nexus between human activities and karst sustainability

### **Recent Research on Environmental Earth Sciences, Geomorphology, Soil Science and Paleoenvironments**

Attila Çiner, Maurizio Barbieri, Md Firoz Khan, Ilker Ugulu, Veysel Turan, Jasper Knight, Jesús Rodrigo-Comino, Haroun Chenchouni, Ahmed E. Radwan, Amjad Kallel, Dionysia Panagoulia, Carla Candeias, Arkoprovo Biswas, Helder I. Chaminé, Matteo Gentilucci, Mourad Bezzeghoud, Zeynal Abiddin Ergüler, 2024-03-11 This book is based on the accepted papers for presentation at the 2nd MedGU Annual Meeting Marrakesh 2022 The book presents a series of newest research studies that are nowadays relevant to Middle East Mediterranean region Africa and surrounding areas The book gives a general overview on current research focusing on geoenvironmental issues and challenges in environmental management in these regions It offers a broad range of recent studies that discuss the latest advances in geography geomorphology landslides and soil science in addition to geoarchaeology and geoheritage It also shares insights on some glaciology studies The book also enhances the understanding of paleoclimate and paleoenvironmental changes based on research studies from the fields of marine geosciences historical geology and paleoceanography and paleoclimatology

**Environmental Geology** James W. LaMoreaux, 2019-05-08 This volume in the Encyclopedia of Sustainability Science and Technology Second Edition brings together chapters examining water energy minerals and the environment in a holistic approach to land use planning and utilization The work examines some of the problems techniques and solutions for managing resources so that a balance can be maintained between development and the environment As world population increases greater demand is placed on finite resources that earth can provide Geographic areas once judged inadequate or inappropriate for construction water and wastewater management or transportation routes among other activities are being considered for and being used for development Topics covered in this volume include impacts of natural disasters such as

earthquakes and sinkholes water and its use overuse and role in energy generation and carbon sequestration The topics covered here all play a role in development and the potential to sustain a growing world population Interactions among system components mean that no single aspect can be addressed without including another Environmental Geology places these different factors into perspective so that scientists politicians economists planners and stakeholders can work together to develop solutions that provide an acceptable balance between development and the environmental services on which we all depend

**Laser Scanning Applications in Landslide Assessment** Biswajeet Pradhan, 2017-05-04 This book is related to various applications of laser scanning in landslide assessment Landslide detection approaches susceptibility hazard vulnerability assessment and various modeling techniques are presented Optimization of landslide conditioning parameters and use of heuristic statistical data mining approaches their advantages and their relationship with landslide risk assessment are discussed in detail The book contains scanning data in tropical forests its indicators assessment modeling and implementation Additionally debris flow modeling and analysis including source of debris flow identification and rockfall hazard assessment are also presented

**Soil Mechanics and Subsidence in Mining Engineering** Prof. Dr. Bilal Semih Bozdemir, Soil Mechanics and Subsidence in Mining Engineering Introduction to Soil Mechanics Soil Composition and Structure Soil Classification Systems Stress Strain Behavior of Soils Shear Strength of Soils Mohr Coulomb Failure Criterion Effective Stress Principle Soil Compaction and Compressibility Consolidation Theory Primary and Secondary Consolidation Settlement Calculations Bearing Capacity of Soils Shallow and Deep Foundations Lateral Earth Pressures Retaining Wall Design Soil Exploration and Site Investigation Sampling Techniques and Methods In Situ Testing SPT CPT Vane Shear Laboratory Testing of Soil Samples Groundwater and Seepage Analysis Darcy's Law and Permeability Seepage Forces and Uplift Pressures Dewatering Techniques in Mining Slope Stability Analysis Infinite Slope and Circular Failure Planar and Wedge Failure Modes Soil Reinforcement and Stabilization Geosynthetics and Soil Nailing Subsidence in Mining Operations Causes and Mechanisms of Subsidence Prediction and Modeling of Subsidence Mitigation Measures for Subsidence Surface Deformation and Tilt Impacts on Structures and Infrastructure Environmental Concerns and Remediation Case Studies of Subsidence in Mining Lessons Learned and Best Practices Conclusion and Future Outlook

**Metals in Water** Sushil Kumar Shukla, Sunil Kumar, Sughosh Madhav, Pradeep Kumar Mishra, 2022-11-19 Metals in Water Global Sources Significance and Treatment covers metal pollution in water where they come from their effects and remediation processes Sections overview heavy metals pollution including their global health impacts and remediation measures Geogenic and anthropogenic input of heavy metals in water are described along with global case studies step by step methods on remediation techniques different detection sensors and assessment practices of toxicity of heavy metals The book focuses on recent research surrounding heavy metals contamination in water resources and its impact across the globe Chapters incorporate both theoretical and practical aspects and serve as baseline information for water resources studies This book is

useful for postgraduate students teachers and researchers working in areas of water resources and pollution hydrochemistry environmental remediation and toxicology who are looking to understand the affects metals have on water the environment and health and also those looking for methods for remediation Presents global case studies of sites contaminated by metals effects on the environment and successful remediation techniques Includes a whole section on remedial measures with clear step by step how to guides Provides chapters covering detailed biogeochemical processes

*Membrane Technologies for Water Treatment* Alberto Figoli,Jan Hoinkis,Jochen Bundschuh,2016-02-18 Focuses on the application of membrane technologies in removing toxic metals metalloids from water Particular attention is devoted to the removal of arsenic uranium and fluoride These compounds are all existing in the earth s crust at levels between two and five thousands micrograms per kg parts per million on average and these compounds can be considered highly toxic to humans who are exposed to them primarily from air food and water In order to comply with the new maximum contaminant level numerous studies have been undertaken to improve established treatments or to develop novel treatment technologies for removing toxic metals from contaminated surface and groundwater Among the technologies available applicable for water treatment membrane technology has been identified as a promising technology to remove such toxic metals from water The book describes both pressure driven traditional processes such as Nanofiltration Reverse Osmosis Ultrafiltration etc and more advanced membrane processes such as forward osmosis membrane distillation and membrane bio reactors employed in the application of interest Key aspect of this book is to provide information on both the basics of membrane technologies and on the results depending on the type of technology employed

**Modeling and Simulation of Environmental Systems** Satya Prakash Maurya,Akhilesh Kumar Yadav,Ramesh Singh,2022-08-24 This book presents an overview of modeling and simulation of environmental systems via diverse research problems and pertinent case studies It is divided into four parts covering sustainable water resources modeling air pollution modeling Internet of Things IoT based applications in environmental systems and future algorithms and conceptual frameworks in environmental systems Each of the chapters demonstrate how the models indicators and ecological processes could be applied directly in the environmental sub disciplines It includes range of concepts and case studies focusing on a holistic management approach at the global level for environmental practitioners Features Covers computational approaches as applied to problems of air and water pollution domain Delivers generic methods of modeling with spatio temporal analyses using soft computation and programming paradigms Includes theoretical aspects of environmental processes with their complexity and programmable mathematical approaches Adopts a realistic approach involving formulas algorithms and techniques to establish mathematical models computations Provides a pathway for real time implementation of complex modeling problem formulations including case studies This book is aimed at researchers professionals and graduate students in Environmental Engineering Computational Engineering Computer Science Modeling Simulation Environmental Management Environmental Modeling and Operations

Research      *Geospatial Analytics for Environmental Pollution Modeling* Fayma Mushtaq,Majid Farooq,Alok Bhushan Mukherjee,Mili Ghosh Nee Lala,2023-12-01 This book aims to provide a comprehensive study on various aspects of environmental pollution dynamics using geospatial technology and modeling techniques The utility of geospatial technology will be demonstrated for the effective study of environmental pollution as space and location are very important for effective environmental health surveillance The timeliness of the work is due to the increasing relevance of geospatial technology applications in environmental health investigations Moreover different types of pollution are covered in detail including air and soil all of which are analyzed using latest Remote Sensing and GIS technology The basics of environmental pollution and its impacts are covered in the book s first part while the second part focuses on the use of geospatial technology in investigating and modeling various instances of environmental pollution The third part discusses policy measures for mitigating environmental pollution hazards usinggeospatial analyses and data to craft informed policy decisions The primary audience for the book is researchers working in the field of environmental pollution with incorporation of geospatial technology including upper level undergraduate and graduate students taking courses in remote sensing and its environmental applications The secondary audience is academicians planners environmentalists and policymakers working in the field of environment protection and management      **Geology and Natural Resources of Nigeria** Silas S. Dada,Samuel B. Olobaniyi,Kamaldeen O.L Omosanya,2024-07-16 Geology and Natural Resources of Nigeria is an up to date and comprehensive overview of the geological framework of the continental crust of Nigeria its evolution and the natural resources it holds It covers a wide set of topics and provides a detailed description of the rock units of the Nigerian continental crust their geological settings and structural characteristics and the potential of their mineral energy and water resources The book discusses the impact of geo resources on the Nigerian economy includes recommendations on how to fully exploit geo resources and explains how to prevent geological processes that could lead to natural hazards FEATURES Provides different aspects of the Nigerian continental crust from a multidisciplinary approach Draws on the latest findings in geoscience research to present new insights and perspectives into the development and resource potential of the Nigerian continental crust Includes multiple case studies to illustrate the exploration and evaluation of the geological resources of Nigeria Explores the potential of geological resources for economic and industrial development Presents scientific achievements of authors and researchers from various disciplines and provides recommendations for mitigating natural hazards This handbook is intended for industry professionals academics researchers and students studying earth sciences with a special interest in Africa and learning how its geology impacts the natural resources and overall economy of the continent      *Agri-Tech Approaches for Nutrients and Irrigation Water Management* Shivam Gupta,Sushil Kumar Himanshu,Pankaj Kumar Gupta,2024-06-03 This book includes concepts methodologies and techniques used in soil nutrients and irrigation water management with regional and global prospects This book accommodates up to date approaches to

agricultural technologies along with future directions and compiles a wide range of articles ranging from soil moisture flow nutrient dynamics crop water estimation techniques approaches to improve crop water productivity and soil health crop simulation modeling and remote sensing GIS applications The book also includes chapters on climate resilient agriculture advances in big data and machine learning techniques IoT plasma technology seed priming and precision farming techniques and their environmental economic impacts Features Discusses applications sustainable technologies for soil nutrients and irrigation water management at multi scale Covers application of remote sensing GIS big data and machine learning IoT plasma technology seed priming and precision farming techniques for nutrients and water management Reviews concepts methodologies and techniques being used in soil nutrients and irrigation water management Provides up to date information as well as future directions in the field of nutrients and agricultural water management This book is aimed at researchers and graduate students in agriculture water resources environment and irrigation engineering

*Issues in Environmental Research and Application: 2011 Edition*, 2012-01-09 Issues in Environmental Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Environmental Research and Application The editors have built Issues in Environmental Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Environmental Research and Application in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Environmental Research and Application 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**Handbook of Drought and Water Scarcity** Saeid Eslamian, Faezeh A. Eslamian, 2017-09-01 This volume includes over 30 chapters written by experts from around the world It examines numerous management strategies for dealing with drought and scarcity These strategies include management approaches for different regions such as coastal urban rural and agricultural areas It offers multiple strategies for monitoring assessing and forecasting drought through the use of remote sensing and GIS tools It also presents drought mitigation management strategies such as groundwater management rainwater harvesting conservations practices and more

**The Aral Sea Basin** Stefanos Xenarios, Dietrich Schmidt-Vogt, Manzoor Qadir, Barbara Janusz-Pawletta, Iskandar Abdullaev, 2019-09-17 This book offers the first multidisciplinary overview of water resources issues and management in the Aral Sea Basin covering both the Amu Darya and Syr Darya River Basins The two main rivers of Amu Darya and Syr Darya and their tributaries comprise the Aral Sea Basin area and are the lifeline for about 70 million inhabitants in Central Asia Written by regional and international experts this book critically examines the current state trends and future of water resources management and development in this

major part of the Central Asia region It brings together insights on the history of water management in the region surface and groundwater assessment issues of transboundary water management and environmental degradation and restoration and an overview of the importance of water for the key economic sectors and overall socio economic development of Central Asian countries as well as of hydro politics in the region The book also focusses on the future of water sector development in the Basin including a review of local and international actors as well as an analysis of the current status and progress towards the Sustainable Development Goals by Basin countries The book will be essential reading for those interested in sea basin management environmental policy in Central Asia and water resource management more widely It will also act as a reference source for decision makers in state agencies as well as a background source of information for NGOs Chapter 8 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

**Geophysical Monitoring for Geologic Carbon Storage** Lianjie Huang, 2022-04-05 Methods and techniques for monitoring subsurface carbon dioxide storage Storing carbon dioxide in underground geological formations is emerging as a promising technology to reduce carbon dioxide emissions in the atmosphere A range of geophysical techniques can be deployed to remotely track carbon dioxide plumes and monitor changes in the subsurface which is critical for ensuring for safe long term storage Geophysical Monitoring for Geologic Carbon Storage provides a comprehensive review of different geophysical techniques currently in use and being developed assessing their advantages and limitations Volume highlights include Geodetic and surface monitoring techniques Subsurface monitoring using seismic techniques Subsurface monitoring using non seismic techniques Case studies of geophysical monitoring at different geologic carbon storage sites The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

*Hydrogeochemistry of Aquatic Ecosystems* Sughosh Madhav, Virendra Bahadur Singh, Manoj Kumar, Sandeep Singh, 2022-11-30 Hydrogeochemistry of Aquatic Ecosystems Discover the geological foundation of global water supply focusing on resource conservation and restoration Hydrogeochemistry explores the connections between the geology of a region and the chemical characteristics and quality of its water sources including such factors as erosion evaporation and increasingly man made activities With the emergence of climate change as a major factor reshaping water quality and availability the need to understand interactions between hydrochemistry and geology has never been greater Hydrogeochemistry of Aquatic Ecosystems meets this need by offering foundational knowledge about the hydrochemistry of different types of aquatic systems the nature of their interactions with various pollutants and geological processes and the possibilities and dangers of human intervention With a particular focus on aqueous resource conservation and restoration this is a vital timely guide to a potentially life saving subject Hydrogeochemistry of Aquatic Ecosystems readers will also find Detailed treatment of water sediment interactions arsenic and fluoride enrichment sand mining and



many other subjects Coverage throughout of solute acquisition processes the carbon cycle and nutrient geochemistry Case studies from Asia and Africa demonstrating both natural and anthropogenic hydrogeochemical interactions

Hydrogeochemistry of Aquatic Ecosystems is indispensable for professionals and researchers in environmental science and environmental engineering as well as scholars and advanced graduate students working on aquatic ecosystems or effects of climate change *Geostatistics and Geospatial Technologies for Groundwater Resources in India* Partha Pratim

Adhikary,Pravat Kumar Shit,Priyabrata Santra,Gouri Sankar Bhunia,Ashwani Kumar Tiwari,B. S. Chaudhary,2021-02-26 This book offers essential information on geospatial technologies for water resource management and highlights the latest GIS and geostatistics techniques as they relate to groundwater Groundwater is inarguably India's single most important natural resource It is the foundation of millions of Indian farmers livelihood security and the primary source of drinking water for a vast majority of Indians in rural and urban areas The prospects of continued high rates of growth in the Indian economy will to a great extent depend on how judiciously we can manage groundwater in the years to come Over the past three decades India has emerged as by far the single largest consumer of groundwater in the world Though groundwater has made the country self sufficient in terms of food we face a crisis of dwindling water tables and declining water quality Deep drilling by tube wells which was once part of the solution to water shortages is now in danger of becoming part of the problem

Consequently we urgently need to focus our efforts on the sustainable and equitable management of groundwater Addressing that need this book presents novel advances in and applications of RS GIS and geostatistical techniques to the research community in a precise and straightforward manner Confronting Global Climate Change Mark Harris,2019-06-07 This

book offers a solutions based approach to climate change problems which potentially impinge on human beings within the tropics It largely comprises research articles with supplementary applications and illustrations The effects of atmospheric phenomena energy acquisition wind power CO<sub>2</sub> sequestration are linked with soils aquatic life reducing deforestation rainwater harvesting and clay pot farming climate plant disease and food security to show that no area of life is untouched by the phenomenon of climate change It discusses specific problem areas and provides an overview of geotechnical and sustainable solutions to lessen the impact of climate *Ground Water Contamination in India* S.P. Sinha Ray,Achiransu

Acharyya,2024-04-29 This book examines contamination in groundwater Groundwater is a lifeline for most countries of the world 90% of the Indian population rely on groundwater based drinking water as safe mode of water supply The terminology contamination in groundwater along with adverse effect on habitats suggests the impact of such contamination in not only for drinking water but also for agricultural irrigation In addition polluted groundwater causes adverse health hazards including social aspects that affect wider communities Impacts on plant life also are equally threatening This book provides readers with an insight into groundwater contamination in India The economic loss associated with this devastating phenomenon is also studied in detail which has a direct bearing to the country's GDP *GeoVadis* Ashish Juneja,Anil Joseph,Dasaka S.

Murty,2025-09-16 This book contains a prolific compilation of research on geotechnical engineering presented at the First Geotech Asia International Conference GAIC 2025 The papers reflect dynamic engagement of researchers engineers and professionals from all over Asia to offer insights into ongoing developments and applied problem solving This publication brings together contributions across 19 technical themes including cold region geotechnics deep excavations earthquake engineering foundation systems and underground construction It also delves into artificial intelligence and machine learning applications environmental and transportation geotechnics site characterisation slope stability embankments and dams and ground improvement techniques It is intended for academics practising engineers consultants contractors industry professionals government authorities and students involved in geotechnical research education and design and implementation The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

## **Environmental Earth Science Journal** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Environmental Earth Science Journal**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect on readers.

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