

1. Record Nr.	UNINA9910799240103321
Autore	Kallel Amjad
Titolo	Selected Studies in Environmental Geosciences and Hydrogeosciences : Proceedings of the 3rd Conference of the Arabian Journal of Geosciences (CAJG-3)
Pubbl/distr/stampa	Cham : , : Springer International Publishing AG, , 2024 ©2023
ISBN	3-031-43803-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (272 pages)
Collana	Advances in Science, Technology and Innovation Series
Altri autori (Persone)	BarbieriMaurizio Rodrigo-CominoJesús ChaminéHelder I MerkelBroder ChenchouniHaroun KnightJasper PandaSandeep KhélifiNabil BenimAli Cemal
Disciplina	550
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- About the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-3), Online November 2-5, 2020 -- Conference Tracks -- About the Conference Steering Committee -- General Chair -- Conference Supervisor -- Advisory Co-chair -- Advisory Co-chair -- Scientific Committee Co-chair -- Scientific Committee Co-chair -- Local Organizing Co-chair -- Local Organizing Co-chair -- Publications Co-chair -- Publications Co-chair -- Program Co-chair -- Program Co-chair -- Proceedings Editorial Manager -- Communication Chair -- Public Relations Chair -- Conference Manager -- Preface -- Contents -- About the Editors -- Atmospheric Sciences, Meteorology, Climatology, Oceanography -- 1 Trend and Variability of Sea Surface Temperature Over the Arabian Gulf -- Abstract -- 1 Introduction -- 2

Materials and Methods -- 3 Results and Discussion -- 4 Conclusion -- References -- 2 A Probabilistic Approach to Estimate Design Wave Parameters and Extreme Wave Return Values for 100 Years in the Indian Ocean -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- 3 On the Formation of Storm Surges in the Azov Sea -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- 4 Projecting Spatiotemporal Extent of Hydrological Drought in a North African Watershed: Outlooks on Hydrological Response -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Study Watershed -- 2.2 Models and Programs -- 2.3 Datasets -- 3 Results -- 3.1 SWAT Calibration -- 3.2 Drought Projections and Hydrologic Response -- 3.3 Spatial Response of Hydrology -- 4 Conclusion -- References -- 5 Estimation and Analysis of Global Solar Radiation in Bangkok, Thailand -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion. 5 Conclusion -- References -- 6 Ambient VLF Noise Levels in the Lower Latitude Region -- Abstract -- 1 Introduction -- 2 Data -- 3 Methods -- 4 Results -- 5 Discussion -- 6 Conclusion -- Acknowledgements -- References -- Biogeochemistry, Geobiology, Geoecology, Geoagronomy -- 7 Estimating Vegetation CO<sub>2</sub> Sequestration in Grombalia Region (Northeastern Tunisia) Using Remote Sensing and GIS -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 LULC Classification -- 2.2 Estimation of NPP and CO<sub>2</sub> Sequestration -- 3 Results and Discussion -- 4 Conclusion -- References -- 8 Assessment of Acid Sulfate Soils' Physicochemical Properties for Oil Palm (*Elaeis guineensis* Jacq.) Cultivation in South-South Nigeria -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Experimental Site -- 2.2 Soil Sampling and Analysis -- 2.3 Experimental Design and Procedure -- 2.4 Data Collection and Analysis -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- 9 Forecasting Lower Tigris Basin Landscapes' Vegetation Response to Regional and Global Climate Variability -- Abstract -- 1 Introduction -- 2 Data and Methodology -- 3 Results and Discussion -- 4 Conclusion -- References -- 10 Calibration and Evaluation of AquaCrop Model Under Different Irrigation Methods for Maize (*Zea mays* L.) in Central Region of Iraq -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results and Discussion -- 4 Conclusion -- References -- 11 Pistachio Tree As a Source of Bioactive Molecules With Biological Properties -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Plant Material -- 2.2 Extracts Preparation -- 2.3 Total Phenol Content -- 2.4 Total Flavonoid Content -- 2.5 Total Condensed Tannins Content -- 2.6 DPPH (2, 2'-Diphenyl-1-Picrylhydrazyl) Radical Scavenging Assay -- 2.7 Antimicrobial Efficacy. 2.8 Gas Chromatography-Mass Spectrometry (GC/MS) Analysis -- 3 Results -- 3.1 Extraction Yield, TPC, TFC, and CTC -- 3.2 Biological Activities -- 3.3 GC/MS Analysis -- 4 Discussion -- 5 Conclusion -- References -- 12 In vitro Seed Germination of Some Wild Plants from Algeria: An Effective Means for Plant Biodiversity Preservation -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Seed Collection -- 2.2 Seed Disinfection -- 2.3 Seed Germination Capacity Test -- 2.3.1 Treatment of Seeds with Gibberellic Acid (GA3), Light, and Darkness -- 2.4 Statistical Analysis -- 3 Results -- 3.1 Seed Germination Capacity -- 3.2 Effect of Gibberellic Acid, Light, and Darkness on Germination Success -- 4 Discussion -- 5 Conclusion -- References -- 13 Assessment of Moscow's New Territory for Biodiversity Conservation Using Remote Sensing -- Abstract -- 1 Introduction -- 2 Research Methods -- 3 Results -- 4 Discussion -- 5

Conclusion -- References -- 14 Smartest Countries, Happiest Countries: The World's Fight Against COVID-19 During the First Wave -- Abstract -- 1 Introduction -- 2 Settings -- 3 Results -- 3.1 Trajectories of Countries: COVID-19 Tests and Deaths -- 3.2 COVID-19 Testing -- 4 Discussion -- 5 Conclusion -- Annex: Data -- References -- Environmental Earth Sciences and Geohazards -- 15 Assessment of Heavy Metal Contamination in Soil of El Eulma Area (Algeria) -- Abstract -- 1 Introduction -- 2 Study Area -- 3 Materials and Methods -- 4 Results and Discussion -- 4.1 Metals Concentrations -- 4.2 Contamination Evaluation Based on Geoaccumulation Index -- 4.3 Enrichment Factor Analysis -- 4.4 Contamination Factor (CF), Pollution Load Index (PLI), Degree of Contamination (CD) and Mean Degree of Contamination (MCD) -- 5 Discussion -- 6 Conclusions -- References.

16 Naturally Occurring and Artificial Geochemical Barriers in Landfills of Northwestern Russia -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusions -- References -- 17 Water Quality Influencing the Distribution of Benthic Macroinvertebrates at El Harrach River (North-Central Algeria) -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusions -- References -- 18 Environmental Impact Assessment of the Algerian Cement Industry: A Case Study with Life Cycle Assessment Methodology -- Abstract -- 1 Introduction -- 2 Methodology -- 2.1 Life Cycle Assessment -- 2.2 Functional Unit -- 2.3 Life Cycle Inventory and Data Quality -- 3 Results -- 3.1 Global Warming Mid-Point Impact -- 3.2 Cumulative Energy Consumption -- 3.3 Comparison of Results -- 4 Conclusion -- References -- 19 Vulnerability of Beaches Nourished by Dunes: A Fight Between Waves, Winds, and Sediments. A Case Study of Mira Beach, Portugal -- Abstract -- 1 Introduction -- 2 Methods -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- 20 Use of the BCG Henderson Matrix as a Tool for Differentiating Areas by the Cost of Housing, Depending on the Ecological State -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusions -- References -- 21 Mercury Exposure from Artisanal Small-Scale Gold Mining in Bunikasih, West Java, Indonesia -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusions -- References -- 22 Soil Mercury Along an Elevation Gradient in Northern Borneo -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusions -- References -- 23 Evaluation of Reliability, Resilience, and Vulnerability Application for Watershed Health Assessment-A Review -- Abstract.

1 Introduction -- 2 Model Conceptual of Reliability, Resilience, and Vulnerability Framework -- 3 Results -- 4 Discussion -- 5 Conclusions -- Acknowledgements -- References -- 24 Iraq's Contemporary Environmental Problems, Their Causes, and Sustainability -- Abstract -- 1 Introduction -- 1.1 Research Approach -- 2 Results and Discussion -- 2.1 Society and Wars -- 2.2 The Marshes and Wars -- 2.3 Oil and Wars in Iraq -- 2.4 Infrastructure and Wars -- 2.5 Radioactive Toxic and Wars -- 2.6 Corruption -- 2.7 Absolute Freedom -- 2.8 Poverty and Ignorance -- 2.9 Loyalty -- 2.10 Wars Mines and Booby Traps -- 2.11 Deliberate Destruction of Fish Farms -- 2.12 Deliberate Fires in Farms and Greenhouses -- 2.13 COVID-19 Coronavirus -- 2.14 Mitigation Measures -- 3 Conclusions -- References -- 25 Contributing Factors in Respirable Dust Lung Deposition in Underground Coal Mines: Short Review -- Abstract -- 1 Introduction -- 2 RCMD Lung Deposition -- 3 Discussion -- 4 Conclusions -- Acknowledgements -- References -- 26 Impacts of CO

and Air Quality-Related Emissions on the Urban Environment-A Case Study (Bhimavaram, India) -- Abstract -- 1 Introduction -- 2 Literature Review -- 3 Multi-gas Sensor Device -- 4 Results and Discussions -- 4.1 Calculation of CO<sub>2</sub> Emissions Based on the Fuel Consumption -- 4.2 Range Detection of CO and Air Quality -- 5 Conclusions -- References -- 27  
Sociospatial Inequality Conceptual Space and Hexagonal Binning Technique: An Application in Albay Philippines -- Abstract -- 1 Introduction -- 2 Framework -- 3 Methods -- 4 Results -- 5 Discussion -- 6 Conclusions -- References -- 28  
Multi-source Earth Observation Derived Data for Delineating the 2011 High Flood Line in the Okavango Delta (Botswana) for Flood Risk Mitigation and Management -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 3 Results.  
3.1 Spatial and Temporal Vegetation Cover Dynamics in the Okavango Delta from Sentinel-2 Imagery.

---