



University of Khartoum Engineering Journal (UofKEJ)

Volume 13 Issue No. 2, 2025

ISSN: 1858-6333

Open Access Journal

All articles are freely available under the Creative Commons Attribution 4.0 International License (CC BY 4.0).

Editor-in-Chief: Prof. Sami M. Sharif

Published by: Faculty of Engineering, University of Khartoum, Khartoum, Sudan

Website: <http://uofkej.uofk.edu>

Email: uofkej@uofk.edu, uofkej1@gmail.com

Geospatial Information: A Success Factor for Sudan's Hydrologic Investigations Babiker Ibrahim Barsi and Kamal Abdellatif. A. Sami	1
Modeling Dust Storm Impacts on PV System Performance in Arid Regions: A Case Study of Sudan Sami M. Sharif	10
Comparison of Reactors for Hydrogen Production via Methane Steam Reforming: A Review Mohammed Fatahalrahman, Mosaab A. Elbager, Almudather Sobagchand, Rodwan F. Griballah, Mohammed. A. Abdalmwla, and Mustafa M. Amin	23
Effect of Load Variation on a Voltage-Source Grid-Connected Inverter for a Solar Photovoltaic System Sharief F. Babiker and Amna Babikir Taha	38
Growing Season Characteristics under Varying Rainfall Probabilities in the Blue Nile Region, Sudan Lottie A. Yousif, Shaker BabikerAhmed, Hassan Elhaj Alsayim, Amir B. Saeed, Osama M. Elhassan, and Mohamed Y. Mohamed	42
Mapping of Center-Pivot Irrigation Systems in Sudan Using Remote Sensing and GIS Techniques: A Case Study of the Al Waha Project A.F. Kheiralla, Eltaib Ganawa, Omar A. Allteyb, Salahalden A. Ahmed, and Mohamed M. Mohamed	50
Assessing Rainwater Adequacy for Crop Cultivation under Varying Rainfall Probabilities in the Blue Nile Region, Sudan Shaker BabikerAhmed, Hassan Elhaj Alsayim, Lotfie A. Yousif, Amir B. Saeed3, Osama M. Elhassan and Mohamed Y. Mohamed6	60

This issue is sponsored by:

