# **Table of Contents**

# International Journal of Energy Optimization and Engineering

Volume 10 • Issue 3 • July-September-2021 • ISSN: 2160-9500 • eISSN: 2160-9543

#### **Research Articles**

## 1 The Politics of Climate Change and the Rising Demand for Global Energy in the 21st Century: Implications for Human and Economic Development

Ikedinachi Ayodele Power Wogu, Rhema University, Nigeria
Sharon Nanyongo Njie, Southern University and A&M College, USA
Emmanuel Onyekachi Ezennwa, Rhema University, Nigeria
Charles Natahniel Chukwuedo, Federal College of Education (Technical), Asaba, Nigeria
George U. Ukagba, University of Benin, Nigeria
Sanjay Misra, Covenant University, Ota, Nigeria
Emmanuel Uniamikogbo, Rhema University, Nigeria
Esther Fadeke Olu-Owolabi, Covenant University, Ota, Nigeria

## 24 Global Pandemics on European Electrical Energy Markets: Lessons Learned From the COVID-19 Outbreak

Mariusz Piotr Drabecki, Institute of Control and Computation Engineering, Warsaw University of Technology, Warsaw, Poland

Klaudia Brygida Kułak, Faculty of Medicine, Lazarski University, Warsaw, Poland

# 47 Techno-Economic Evaluation of Hydrogen Fuel Cell Electricity Generation Based on Anloga (Ghana) Wind Regime

Amevi Acakpovi, Accra Technical University, Ghana Patrick Adjei, Regional Maritime University, Ghana Nana Yaw Asabere, Accra Technical University, Ghana Robert Adjetey Sowah, University of Ghana, Ghana David Mensah Sackey, Ho Technical University, Ghana

### 70 Optimizing Layout of Distributed Generation Sources of Power Supply System of Agricultural Object

Yuliia Daus, FSBEI HE Saint Petersburg State Agrarian University, Russia Valeriy Kharchenko, Federal Scientific Agroengineering Center VIM, Russia Igor Yudaev, FSBEI HE Saint Petersburg State Agrarian University, Russia

#### 85 Research of Heat Losses of Solar Collectors and Heat Accumulators

Shavkat Klychev, Independent Researcher, Uzbekistan
Sagdulla A. Bakhramov, Independent Researcher, Uzbekistan
Valeriy Kharchenko, Federal Scientific Agroengineering Center VIM, Russia
Vladimir Panchenko, Russian University of Transport, Russia & Federal Scientific Agroengineering Center VIM, Russia

#### **COPYRIGHT**

The International Journal of Energy Optimization and Engineering (IJEOE) (ISSN 2160-9500; eISSN 2160-9543), Copyright © 2021 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The International Journal of Energy Optimization and Engineering is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; IAOR Online; IndexCopernicus; INSPEC; JournalTOCs; MediaFinder; RePEc; The Standard Periodical Directory; UGC-CARE List (India); Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)