

Energy and Power Engineering





https://www.scirp.org/journal/epe

Journal Editorial Board

ISSN: 1949-243X (Print) ISSN: 1947-3818 (Online) https://www.scirp.org/journal/epe

Editor-in-Chief

Prof. Fernando A. Almeida Prado Jr

University of Sao Paulo, USA

Associate Editors-in-Chief

Prof. Anjun Jin Prof. Giulio Lorenzini Ningbo University, China University of Parma, Italy

Editorial Advisory Board

Prof. Ching-Chuen Chan Prof. Ryuichi Yokoyama Prof. Xiaoxin Zhou

Editorial Board

Prof. Adel Ali Mohamed Abou El-Ela Prof. Salem Al-Agtash Dr. Raslan Alenezi Dr. Touseef Amna Dr. Ighball Baniasad Askari Dr. Roberto Baca-Arroyo

Dr. Fabio Bisegna Dr. Jesús M. Blanco **Prof. Ho Chang** Prof. Jiangping Chen Prof. Young Nam Chun Prof. Guoliang Ding Dr. Mostafa Eidiani **Prof. Zhen Fang** Dr. Herbert H. C. Iu Dr. M. Mohamed Iqbal Dr. Mirosław Kwiatkowski Prof. Ruomei Li Prof. Zhengqi Li Prof. Miodrag Mesarović Prof. Adnan Midilli Dr. Jingchun Min Dr. Meng Ni **Prof. Pucheng Pei** Dr. Ahmed Riyaz Prof. Marc A. Rosen Dr. Federico Scarpa Dr. Pierluigi Siano Prof. Fuqiang Wang Prof. Masafumi Yamaguchi Prof. Changhui Ye Prof. Bo Yu

The University of Hong Kong, China Tokyo Metropolitan University, Japan Chinese Society of Electrical Engineering, China

Menoufia University, Egypt Santa Clara University, USA Public Authority for Applied Education and Training, Kuwait Albaha University, Saudi Arabia Mechanical Engineering Department University of Zabol, Iran Department of Electronics, School of Mechanical and Electrical Engineering (ESIME) National Polytechnic Institute, Mexico Sapienza University of Rome, Italy University of the Basque Country, Spain National Taipei University of Technology, Chinese Taipei Shanghai Jiao Tong University, China Chosun University, South Korea Shanghai Jiao Tong University, China Khorasan Institute of Higher Education, Iran Chinese Academy of Sciences, China The University of Western Australia, Australia PSG Institute of Technology and Applied Research, India AGH University of Science and Technology, Poland Chinese Society of Electrical Engineering (CSEE), China Harbin Institute of Technology, China Belgrade, Zagreb and Sarajevo Universities, Serbia Recep Tayyip Erdogan University, Türkiye Tsinghua University, China The Hong Kong Polytechnic University, China Tsinghua University, China BGSB University, India University of Ontario Institute of Technology, Canada University of Genoa, Italy University of Salerno, Italy Harbin Institute of Technology, China Toyota Technological Institute, Japan Chinese Academy of Sciences, China China University of Petroleum, China



Table of Contents

Volume 15 Number 3

March 2023

Battery-Free Power Supply for Wireless Sensor Combining Photovoltaic Cells and Supercapacitors
V. Boitier, B. Estibals, F. Huet, L. Seguier151
Prediction of Sedimentary Microfacies Distribution by Coupling Stochastic Modeling Method in Oil and Gas Energy Resource Exploitation
H. Wang, Y. W. Di, Y. F. Feng

Energy and Power Engineering (EPE) Journal Information

SUBSCRIPTIONS

The *Energy and Power Engineering* (Online at Scientific Research Publishing, <u>https://www.scirp.org/</u>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$89 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

SERVICES

Advertisements Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: <u>sub@scirp.org</u>

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2023 by Scientific Research Publishing Inc. This work is licensed under the Creative Commons Attribution International License (CC BY). http://creativecommons.org/licenses/by/4.0/

Copyright for individual papers of the journal:

Copyright © 2023 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

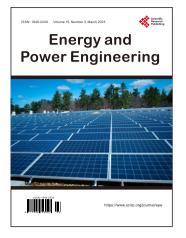
Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact: E-mail: epe@scirp.org

Call for Papers



Editor-in-Chief

Prof. Fernando A. Almeida Prado Jr

Associate Editors-in-Chief

Prof. Anjun Jin Prof. Giulio Lorenzini

Editorial Advisory Board

Prof. Ching-Chuen Chan Prof. Ryuichi Yokoyama Prof. Xiaoxin Zhou

Subject Coverage

Energy and Power Engineering

ISSN 1949-243X (Print) ISSN 1947-3818 (Online) https://www.scirp.org/journal/epe

Energy and Power Engineering (EPE), a monthly journal, publishes research and review articles in all important aspects of electric power engineering and other professionals involved in the electric power industry. Both experimental and theoretical papers are acceptable provided they report important findings, novel insights, or useful techniques in these areas.

University of Sao Paulo, USA

Ningbo University, China

University of Parma, Italy

The University of Hong Kong, China Tokyo Metropolitan University, Japan Chinese Society of Electrical Engineering, China

EPE aims to strengthen relations between the energy sector, research laboratories, and universities. Additionally, accepted ones will immediately appear online followed by printed in hard copy. The topics to be covered by Energy and Power Engineering include, but are not limited to:

- ◆ Analysis of Hybrid Generation Systems
- Artificial Intelligence in Complex Power and Energy Systems
- ◆Bio-Energy
- Building Energy Use and Energy Conservation
- \mathbf{O}_2 and Emission Issues
- \mathbf{O}_2^{-} Capture and Storage
- ◆Conventional Energy Power Generation
- Design and Dimensioning of Power Systems
- Distributed Generation
- Energy and Exergy Analyses
- Energy Policies and Strategies
- Energy Resources
- Energy Resources Assessment
- Energy Storage
- Energy Sustainability
- ◆Gasification Processes and Technologies
- ◆Heat Exchanger
- ◆Hydrogen Energy and Fuel Cells
- ◆Impact of Climate Changes on Energy Systems
- ◆Integrating Renewable Energy to the Power Grid

- ◆International Experiences with Energy Infrastructures
- Investment Planning for Energy Infrastructures
- Organic and Inorganic Photovoltaics
- Petroleum Engineering
- Planning and Operations of Power Systems
- Power Demand Forecasting and Management,
- Power Market
- ◆Power Electronic Engineering
- Power Forecasting from Wind, Solar and Other Renewal Sources of Energy
- Power System Protection
- Power Transmission and Distribution
- ♦ Reliability Evaluation and Risk Analysis of Power Systems
- ◆Renewable Energy Power Generation
- ♦ Smart Grid
- ◆Socio-Economic and Power System Management
- Solar Energy Engineering
- ◆ Transmission and Capacity Planning
- ◆Waste Energy Management
- Wind Energy Engineering

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the EPE.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

https://www.scirp.org/journal/epe

E-mail: epe@scirp.org