

e-ISSN 2548-060X

Volume:8, Issue:2  
June 2021

# International Journal of Energy Applications and Technologies



e-mail: [editor.ijeat@gmail.com](mailto:editor.ijeat@gmail.com)

Editor: Dr. İlker ÖRS



## IJEAT – EDITORIAL BOARD

### **CHIEF EDITOR**

**Assist. Prof. Dr. İlker Örs**

Selçuk University & School of Civil Aviation  
42130 Konya, Turkey

### **MANAGING EDITOR**

**Prof. Dr. Murat Ciniviz**

Selçuk University & Technology Faculty  
42075 Konya, Turkey

### **ASSISTANT EDITORS**

**Assoc. Prof. Dr. Tanzer Eryılmaz**

Bozok University & Faculty of Agriculture  
Yozgat, Turkey

**Assist. Prof. Dr. Gül Nihal Güğül**

Selçuk University & Technology Faculty  
42075 Konya, Turkey

## EDITORIAL BOARD

**Prof. Dr. Belkacem Adouane**

University of Batna & Physics Faculty  
of Science  
05000 Batna, Algeria

**Prof. Dr. Hidayet Oğuz**

Necmettin Erbakan University & Faculty  
of Engineering and Architecture  
42140 Konya, Turkey

**Prof. Dr. Sefa Tarhan**

Gaziosmanpaşa University & Faculty of  
Engineering and Natural Sciences  
60150 Tokat, Turkey

**Prof. Dr. Ali Kahraman**

Necmettin Erbakan University & Faculty  
of Engineering and Architecture  
42140 Konya, Turkey

**Assoc. Prof. Dr. Hüseyin Deveci**

Konya Technical University & Faculty of  
Engineering and Natural Sciences  
42075 Konya, Turkey

**Assoc. Prof. Dr. Mevlüt Arslan**

Bozok University & Engineering and  
Architecture Faculty  
Yozgat, Turkey

**Assist. Prof. Dr. Şükran Efe**

Atatürk University & Faculty of  
Engineering  
25240 Erzurum, Turkey

**Assist. Prof. Dr. Abdulaziz E. Atabani**

Erciyes University & Faculty of  
Engineering  
38039 Kayseri, Turkey

**Assist. Prof. Dr. M. Kemal Balki**

Sinop University & Faculty of Engineering  
and Architecture  
57000 Sinop, Turkey

**Prof. Dr. Ünal Akdağ**

Aksaray University & Faculty of  
Engineering  
68100 Aksaray, Turkey

**Prof. Dr. M. Teresa Parra-Santos**

University of Valladolid & Department of  
Energy and Fluid Mechanics  
Valladolid, Spain

**Prof. Dr. Riyadh S. Al-Turaihi**

University of Babylon & College of  
Engineering  
Hillah, Iraq

**Assoc. Prof. Dr. Christo Ananth**

AMA International University & College of  
Engineering  
8041, Salmabad, Kingdom of Bahrain

**Assoc. Prof. Dr. Rahim Hassanzadeh**

Urmia University of Technology &  
Mechanical Engineering Department  
Band, Iran

**Assoc. Prof. Dr. Bülent Yamktepe**

Osmaniye Korkut Ata University & Faculty of  
Engineering  
80000 Osmaniye, Turkey

**Asst. Prof. Hazir Farouk A. Elhaj**

Sudan University of Science and Technology /  
11111 Khartoum, Sudan  
World Bioenergy Association / Sweden

**Assist. Prof. Dr. Coşkun Fırat**

Istanbul Technical University & Energy  
Institute  
34469 Istanbul, Turkey

**Assist. Prof. Dr. Şaban Bülbül**

Necmettin Erbakan University & Seydişehir  
Ahmet Cengiz Faculty of Engineering  
57000 Sinop, Turkey

**INTERNATIONAL JOURNAL OF ENERGY APPLICATIONS AND TECHNOLOGIES  
(IJEAT)**

International Journal of Energy Applications and Technologies is aimed at presented a chance to students, researchers, research scholars, teachers, authors and other professionals in the field of research in energy technologies subjects, to publish their original and current research worldwide, international community. It publishes original articles, review articles, case studies, book reviews, short communications, and hypotheses on the fundamentals, applications, and management of energy technologies. In the process of blind peer reviewed various international experts, world renowned scientists were engaged in the past.

IJEAT has been published since 2014. The authors have transferred the publishing rights of all articles published in the journal to IJEAT. Publication of these articles in other publications is strictly prohibited.

**Printed in TURKEY-eISSN 2548-060X**

Publishing date: June, 2021

© International Journal of Energy Applications and Technologies  
Published by Editorial Board Members of IJEAT

This journal is distributed by Turk Journal Park System under the CC 4.0 terms and conditions.

**JOURNAL CONTACT**

International Journal of Energy Applications and Technologies  
[editor.ijeat@gmail.com](mailto:editor.ijeat@gmail.com)

**EDITOR**

Assist. Prof. Dr. İlker Örs  
[ilkerors@hotmail.com](mailto:ilkerors@hotmail.com)