## Special Issue

## Recent Advances in Biofuels Production and Usage: Challenges and Solutions—2nd Edition

### Message from the Guest Editor

Biofuels, such as bioethanol and biodiesel, are renewable transport fuels that can lower greenhouse gas emissions and improve energy security. Ethanol is the most widely produced, while biodiesel-mainly from oil crops and waste oils—has broad use, especially in Europe. Algae- and cyanobacteria-based "thirdgeneration" biodiesel shows promise but remains economically challenging. This Special Issue welcomes research on emerging technologies for biofuel production, including thermochemical, biochemical, and (photo)electrochemical conversion. Interdisciplinary approaches combining modeling and experiments are encouraged, with emphasis on holistic evaluations covering technical, economic, and environmental aspects. Studies on resource efficiency, process integration, and intensification strategies are also within scope. Sustainability-focused works, such as technoeconomic analysis and life cycle assessment, are invited. In addition, case studies at different scales and policy recommendations are welcome.

#### **Guest Editor**

Dr. Radu Mirea

National Research and Development Institute for Gas Turbines COMOTI, 220D Iuliu Maniu, 061126 Bucharest, Romania

### Deadline for manuscript submissions

10 March 2026



# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/233889

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies





# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



### **About the Journal**

### Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

### **Author Benefits**

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

### Journal Rank:

CiteScore - Q1 (Control and Optimization)

