

Special Issue

Advancements in Leading Edge Erosion Science of Wind Turbine Blades

Message from the Guest Editors

This Special Issue “Advancements in Leading Edge Erosion Science of Wind Turbine Blades” aims to discuss the scientific progress made in the academic and industrial community to solve this problem. We invite authors from universities and industries to submit articles related to the theme of the Special Issue. This can include reviews, case studies, analyses, and evaluations from different disciplines that are relevant to the existing challenges related to the leading edge erosion of wind turbine blades. The Special Issue is open to discussing interesting results and challenges related to experiments and numerical as well as theoretical developments applied to leading edge erosion. These include advanced coating developments and accelerated erosion testing, numerical simulations using coupled fluid structure interaction methods such as smooth particle hydrodynamics (SPH), computational fluid dynamics (CFD), finite element methods (FEM), analytical leading edge erosion models, aerodynamic analysis, probabilistic analysis, and case studies on the development of novel wind turbine control algorithms, among others.

Guest Editors

Dr. Leon Mishnaevsky Jr.

Dr. Amrit S. Verma

Dr. Julie J. E. Teuwen

Dr. Weifei Hu

Deadline for manuscript submissions

closed (20 December 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/61473

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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)