

Special Issue

Progress in Wind Power

Message from the Guest Editors

Wind power continues to be one of the fastest-growing renewable energy sources, playing a vital role in the global transition toward a sustainable and carbon-neutral future. Meanwhile, new challenges are emerging. This Special Issue, “Progress in Wind Power”, aims to compile cutting-edge research and comprehensive reviews that address the latest developments, challenges, and opportunities across the full spectrum of wind energy technology. We welcome contributions that span from component-level innovation to system-wide integration, including theoretical, numerical, and experimental investigations. Topics of interest include, but are not limited to:

- Aerodynamics and aeroelasticity of wind turbines;
- Advanced wind turbine design and materials;
- Structural health monitoring and fault diagnosis;
- Wind turbine and wind farm control and optimization;
- Wind farm layout optimization and wake modeling;
- Offshore wind energy: fixed-bottom and floating systems;
- Wind resource assessment and forecasting;
- Power electronics and generator technologies for wind turbines;
- Grid integration, energy storage, and hybrid renewable systems;
- Artificial intelligence and data-driven approaches in wind energy.

Guest Editors

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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.

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