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Advances in Offshore Wind Energy Development

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Message from the Guest Editors

With more and more onshore fuel-based energy being extracted and the demand for clean energy increasing rapidly worldwide, offshore wind energy has attracted a great deal of interest from the research community and industry partners during the past several decades due to the high quality of offshore wind resources, reduced environmental impact, and more space in which to construct.

The development of offshore wind energy faces two important issues. First, although the cost of offshore wind energy has decreased substantially, reaching USD 78/MWh in 2019, it is still higher than that of onshore wind power. In addition to the high construction cost, the cost of wind turbine foundations occupies a large portion of the total cost. Second, the pile–soil–structure interaction is complex under wind, wave and current loadings.

This Special Issue will collect high-quality original research articles and review papers reflecting the advances in the research on offshore wind energy. Manuscripts could be based on analytical, numerical studies as well as laboratory experiments and field technologies. Case studies from practice are also welcome.



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Special Issue



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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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