Special Issue

Global Research and Trends in Offshore Wind, Wave, and Tidal Energy

Message from the Guest Editor

Global energy demands, especially the clean energy demand, are rapidly growing, driven by factors like economic growth, increased numbers of electrical cars and data centers, and others. Ocean energy resources have drawn more and more attention in both academia and industry. Offshore wind energy systems have become commercially viable, driven by technological advancements leading to decreasing costs. Although wave and tidal energy are not commercially viable yet, they hold significant potential with the ample available wave and tidal resources in the oceans. The technologies associated with offshore wind, wave, and tidal energy systems have advanced significantly in the last decade, including energy resource measurement and estimation, site identification and selection, layout optimization, energy harvesting efficiency, etc. This Special Issue aims to present and disseminate the most recent advances related to the theory, design, resource measurement and estimation, application, control and monitoring, and system integration of offshore wind, wave, and tidal energy.

Guest Editor

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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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