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Advanced Research and Methods of Noise Control for Wind Turbine

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Message from the Guest Editors

Dear Colleagues,

Wind turbines are widely used due to their environmental friendliness. More than 10% of electricity in Europe is provided by the wind power industry. The growing use of wind turbines causes serious noise problems to the community, especially for modern wind turbines with large diameters of more than 150 m. The two main aerodynamic noise sources of wind turbines are the trailing edge noise generated by the interaction of boundary layer turbulence with the trailing edge of an airfoil, and the leading edge noise generated by the interaction of inflow turbulence with the leading edge of an airfoil. The control of wind turbine noise is a challenging task due to its broadband characteristics. However, to further increase the rotor diameter and improve the wind energy capture efficiency, it is urgent to conduct systemic research and develop advanced noise control methods for wind turbines.

This Special Issue aims to present and disseminate the most recent advances related to this research and the methods of noise control for wind turbines.

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Message from the Editor-in-Chief

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