



wind



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## Wind Loads on Buildings and Structures

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### Message from the Guest Editor

In recent years, wind-related disasters have occurred frequently all over the world, causing significant casualties, property damage, and economic loss. It is said that such extreme weather events will occur more frequently in the future due to global warming. In order to mitigate such wind disasters, especially their influence on buildings and structures, it is necessary to develop more reasonable wind-resistant designs and construction methods. For this purpose, it is important to establish reasonable methods for evaluating the wind loads and wind-resistant performances of buildings and structures. With remarkable developments in computational technology, various methods have been developed in recent years, e.g., large-scale testing facilities, computational fluid dynamics (CFD), database-assisted design, neural networks, and machine learning. This Special Issue publishes current, high-quality papers investigating the wind loads, the wind-induced responses, and the wind-resistant performances of buildings and structures.



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Special Issue



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## Message from the Editor-in-Chief

*Wind*, as an open access journal, is dedicated to disseminating rigorously peer-reviewed publications to advance knowledge and technology in wind-energy related areas. The journal brings many opportunities for actively spreading novel concepts and advancements in multi-disciplinary wind technology and related issues by covering the wind-related scientific and engineering aspects, including but not limited to meteorology, materials, and civil, mechanical, and electrical engineering, as well as the related subjects, such as wind-energy related economics, and social and environmental topics.

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