

## Special Issue

# Novel Research on Permeable and Porous Elements in Wind Engineering

### Message from the Guest Editors

This Special Issue primarily aims to discuss the aerodynamic performance, applications, and modelling approaches of permeable/porous structures. Given these structures' wide range of applications, this issue recognizes aerodynamic studies on any building or structure with permeable/porous elements exposed to the wind as valuable contributions. In particular, research on solid fences, as a special case of zero-porosity barriers, will also be considered. Original research articles and reviews are also welcome in this Special Issue. Research areas of interest include (but are not limited to) the following:

- The aerodynamic behaviour of permeable/porous elements, e.g., wind barrier, porous skin façades, etc.
- Novel modelling approaches of permeable/porous elements in numerical simulations and wind tunnel experiments.
- Evaluations of the accuracy of current modelling approaches of permeable/porous elements
- Wind loads on the structures with permeable elements.
- Vortex-induced vibrations of bridge decks when adopting porous or solid barriers.
- Sand mitigation measures with barriers.
- The application of trees as windbreakers.

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### Guest Editors

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Prof. Dr. Yukio Tamura

Dr. Jingxue Wang

Dr. Luca Patruno

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### Deadline for manuscript submissions

31 March 2026



## Wind

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## About the Journal

### Message from the Editor-in-Chief

*Wind* is an open access journal dedicated to disseminating rigorously peer-reviewed publications to advance knowledge and technology in wind research-related areas such as wind engineering, wind energy and wind environment. The journal brings new opportunities for actively disseminating fresh, innovative and multidisciplinary wind-related concepts and applications. It covers aspects related but not limited to meteorology; civil, mechanical, aeronautical and electrical engineering; risk analysis and economic, social and environmental impacts.

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### Editor-in-Chief

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### Author Benefits

#### High Visibility:

indexed within ESCI (Web of Science), Scopus, and other databases.

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 43.5 days after submission; acceptance to publication is undertaken in 12.5 days (median values for papers published in this journal in the first half of 2024).

#### Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.