

# Special Issue

## Sports Fluid Mechanics

### Message from the Guest Editor

Recently, research studies on fluid mechanics of sports have been limited to sporting equipment, such as balls, and sporting events, such as swimming and ski jumping. However, given the recent trend in which a difference as small as 1/100 of a second can have a significant impact on the results of a competition, topics such as aerodynamics and hydrodynamics in sports have become main research interests in the fields of sport sciences, sport engineering, and sport technology. In addition, basic research in fluid mechanics and fluid engineering is often useful in improving sport performance and in providing a scientific approach to sport coaching. We are inviting the submission of manuscripts to this Special Issue on “Sports Fluid Mechanics”. This Special Issue aims to cover sports fluid mechanics studies, including sports aerodynamics, sports hydrodynamics, and relevant sports sciences and technology. These important issues include but are not limited to the topics described in the keywords.

---

### Guest Editor

Prof. Dr. Takeshi Asai

1. International Pacific University, 721 Kanonji, Seto-cho, Higashi-ku, Okayama-shi, Okayama 709-0863, Japan
2. University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8577, Japan

---

### Deadline for manuscript submissions

closed (15 June 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/47079](https://mdpi.com/si/47079)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls-ci@mdpi.com](mailto:appls-ci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls-ci](https://appls-ci.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )