

## Special Issue

# Recent Advancements in Unsaturated Soil Mechanics

### Message from the Guest Editor

Unsaturated soils account for a large portion of the Earth's land surface. Many routine civil engineering projects deal with unsaturated soils. Examples include soil compaction in roads, dams, and embankments, soil characterization, slope stability assessment, and many others. Although research on unsaturated soils began in the 1950s, and considerable advances have been achieved in the numerical and constitutive modeling, experimental investigation, and field monitoring of unsaturated soils, the application of unsaturated soil mechanics in the practice of geotechnical engineering is still limited. This is partly due to the inherent complexities associated with the behavior of unsaturated soils. The uptake of unsaturated soil mechanics in the geotechnical engineering practice has also been hampered by the confusing nature of some of the models proposed for the behavior of unsaturated soils. [...]

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/water/special\\_issues/Z09754G5NB](https://www.mdpi.com/journal/water/special_issues/Z09754G5NB)

---

### Guest Editor

Dr. Arman Khoshghalb

School of Civil and Environmental Engineering, UNSW Sydney, Sydney, Australia

---

### Deadline for manuscript submissions

closed (10 February 2024)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/135665](https://www.mdpi.com/si/135665)

*Water*

Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

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





# Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



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



## About the Journal

### Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

---

### Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

---

### 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, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)