

# Journal of Zhejiang University-SCIENCE A (Applied Physics & Engineering)

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## Call for papers

### Special Issue on Physical Model Testing in Geotechnical Engineering (SI-2022PMTGE)

Constituted by different minerals (such as quartz, kaolinite, montmorillonite, etc.) and an exceptionally wide range of particle size from  $\mu\text{m}$  scale (clay particle size smaller than  $2\ \mu\text{m}$ ) to 100-mm scale (such as some gravels and pebbles), the soil behaviour is always complicated for geotechnical construction and maintenance in the field. To fully consider the in-situ condition and reproduce the mechanical or thermal-hydro-mechanical-chemical (THMC) coupled behaviours of the geotechnical structures, physical model testing is an efficient and reasonable approach, widely used by academics and engineers around the world. Compared to the field testing, the physical model testing embraces the characteristics of high reproduction for the in-situ condition, remarkably less cost and noticeably higher operability. Furthermore, as a connecting bridge between the basic soil behaviour investigation in the laboratory and the practical geotechnical engineering application in the field, the effects of various controllable influencing factors on the performance of the engineering cases can be identified through the physical model testing. By data processing and further analysis, theoretical models and even design basis can be provided for the engineering practice. Hence, the physical model testing serves as an eternal method for academics and engineers to solve complicated geotechnical problems. However, no dedicated or comprehensive special issue or workshop has been proposed in this specialized area. This special issue will contain the original and not previously published works in the area of the small-scale, large-scale, and full-scale physical model test for geotechnical engineering.

### Focal points include but not limited to following aspects:

- Review of physical model test in geotechnical engineering for a specific area
- Physical model development for critical engineering problems, with innovative testing methods (including innovative sensors)
- Clarification of multi-physics behaviour of geotechnical engineering cases using physical model test
- Development of theoretical models and design basis for practical application in geotechnical engineering through physical model testing

**Submission Deadline: Apr. 5, 2022**      **Publication Date: Sept. 5, 2022**

*Papers will be published online upon acceptance, regardless of the Special Issue publication date.*

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