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## Experimental Testing and Constitutive Modelling of Pavement Materials—2nd Volume

Guest Editors:

**Dr. Xueyan Liu**

**Prof. Dr. Zhanping You**

**Prof. Dr. Yuqing Zhang**

**Dr. Changhong Zhou**

**Prof. Dr. Linbing Wang**

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submissions:

**closed (20 May 2024)**

### Message from the Guest Editors

Dear Colleagues,

Pavement materials such as asphalt mixtures, granular aggregates, and soils exhibit complex material properties and engineering performance under external loading and environmental conditions. For instance, the asphalt mixture shows highly nonlinear viscoelastic and viscoplastic properties at high temperatures, and it presents fatigue cracking damage and fracture properties at intermediate or low temperatures. Constitutive models based on mechanics theories have been the kernel of performance prediction of pavement infrastructures and materials. They lay down a solid foundation for material selection, design and pavement structural evaluation, and maintenance decisions. Advances in mechanics modeling and the associated experimental testing for pavement infrastructures and construction materials are emerging constantly, such as nonlinear viscoelasticity, viscoplasticity, fracture, and damage mechanics models. Meanwhile, various numerical modeling technologies are being developed and implemented to solve the multiscale and multiphysical equations and models for pavement structures and materials.





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## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

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Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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