

# Special Issue

## Land Surface Modeling

### Message from the Guest Editors

Dear Colleague, Understanding the effects of human activities on the land surface system and its connections with atmosphere and ocean is very important for environment management. Land surface modeling incorporates several recent scientific advances in the understanding and representation of land surface processes, expands model capabilities, and improves surface and atmospheric forcing datasets. However, complex natural and human systems challenge land surface modeling due to the limitations of data and numerical models. The development of innovative methods and basic datasets to improve land surface modeling is urgent. This Special Issue is aimed at collecting all research developments related to land surface modeling combining multidisciplinary approaches coming from the climate, hydrology, ecology, geomorphology, and geology in order to develop innovative methods and to provide a comprehensive update of the state of the art in this field.

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### Guest Editors

Dr. Shuang Liu

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu 610041, China

Dr. Yujin Zeng

Program in Atmospheric and Oceanic Sciences, Princeton University, Princeton, NJ 08540, USA

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### Deadline for manuscript submissions

closed (25 August 2022)



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

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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### Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,  
Fairbanks, AK, USA

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