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Tectonics and Morphodynamics

Guest Editor:

Prof. Dr. O. Adrian Pfiffner
Institute of Geological Sciences, University of Bern, Baltzerstr. 1+3, CH-3012 Bern, Switzerland

Deadline for manuscript submissions:
closed (31 August 2018)

Message from the Guest Editor

The growth of mountain ranges in the framework of plate tectonics has been of great interest in the past years and included their structural evolution and exhumation history. Similarly, surface processes have been treated from a morphodynamic perspective, and numerical and analog models were aimed at mountain building and erosion. Endogenic and surface processes in mountain building have been addressed in many papers individually. It thus seems time to assemble the current ideas on the interplay and interaction between tectonics and morphodynamics.

Topics to be addressed in this Special Issue could include:

- initiation and evolution of river networks and relief in a growing and evolving mountain range
- impact of pulses of uplift on river networks and relief
- impact of bedrock geology on river networks and relief
- morphodynamics in the framework of exhumation of metamorphic rocks in a mountain range
- mass balance between foreland sedimentation and erosion in a growing mountain range

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Editor-in-Chief

Prof. Dr. Jesus Martinez-Frias
Instituto de Geociencias, IGEO (CSIC-UCM), C/ Del Doctor Severo Ochoa 7, Edificio Entrepabellones 7 y 8, 28040 Madrid, Spain

Message from the Editor-in-Chief

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

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Geosciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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