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Planetary Evolution and Search for Life on Habitable Planets

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Deadline for manuscript submissions:
closed (1 March 2019)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims at bringing together studies from different research fields of astrobiology, that are related to the questions of habitability of planets and moons and the search for life both in our solar system and beyond.

Earth is the only planet that we know of so far, which is inhabited by life. Our neighbour planets Mars and Venus lack proof of extinct or extant life, and are examples of at least partly uninhabitable worlds for life as we know it. With more and more exoplanets being discovered in the right distance to their host stars, such that these planets could have liquid water—and hence Earth-like life—at their surface, it is increasingly important to understand what factors make a planet habitable, and what influences not only origin but also distribution, evolution and survival of life.

We invite both reviews as well as original research papers with the focus on planetary habitability, e.g., conceptual studies on habitability of planets or niches, models of the interactions evolving between planet and life with its signatures, as well as space life science studies.

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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.

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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