



Early Earth Environments and Biospheric Evolution

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Deadline for manuscript
submissions:

closed (30 September 2018)

Message from the Guest Editor

In the last few decades, the field of Geobiology, which aims at deciphering the interactions between the physical Earth and biosphere, largely developed and many exciting breakthroughs have been made in our understanding of the co-evolution of life and Earth-driving mechanisms.

This Special Issue of *Geosciences* invites contributions on latest insights from the Precambrian rock records and modern analogues to decipher interactions between early life and Earth systems.

Studies based on biogeochemical proxies, such as, but not limited to, C, N, S and Fe isotopes, specific compound biomarkers, as well as fossil morphology (microfossils, biomats), batch culture experiments and fossilization experiments, which can improve our understanding of biosignatures of Precambrian metabolisms and their temporal evolution in interactions with Earth surficial reservoirs (i.e., atmosphere, oceans and continental land masses) are encouraged. We also welcome contributions using micro- to nano-scale analyses looking for biogenicity of earliest life traces and discussing the nature of their host environments.





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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 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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