

## Special Issue

# Volcanic Plumes: Impacts on the Atmosphere and Insights into Volcanic Processes

### Message from the Guest Editors

Volcanoes release plumes of gas and ash to the atmosphere, during episodes of passive and explosive behaviour. These ejecta have important implications for the composition of the troposphere and stratosphere, with the capacity to alter Earth's radiation budget and climate over a range of spatiotemporal scales. The chemical composition and emission rate of volcanic plumes are also monitored, via a range of direct sampling and remote sensing instrumentation, in order to gain insights into subterranean processes, in respect of the magmatic bodies these volatiles exsolve from. This Special Issue is aimed at presenting state of the art, multi-disciplinary science concerning all aspects of volcanic plumes, of relevance to the volcanology, climatology and atmospheric science communities. We invite you to submit your manuscripts. Both research articles and reviews will be considered for publication.

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### Guest Editors

Dr. Pasquale Sellitto

Dr. Giuseppe Salerno

Dr. Andrew McGonigle

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### Deadline for manuscript submissions

closed (15 November 2017)



## Geosciences

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## About the Journal

### 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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### 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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