Special Issue

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

Message from the Guest Editors

Dear Colleagues,

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.

Dr. Pasquale Sellitto  
Dr. Giuseppe Salerno  
Dr. Andrew McGonigle  
Guest Editors

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