Special Issue

Magma Degassing from Magma at Depth to the Surface

Message from the Guest Editors

This Special Issue of Geosciences aims to gather highquality and original research articles, reviews and technical notes on degassing from magma at depth to the surface. Volcanoes are commonly observed to emit larger amounts of gas than can be dissolved in the volume of erupted magma, especially in subduction zones. Combined with an understanding of the underlying mechanisms, quantification of this so-called excess degassing can provide valuable insights into eruptive processes. The dynamics of eruptive processes are linked to both the gas composition in magmas and the physics of degassing, but no single approach is sufficient for describing the full range of these dynamics. Thus, it is crucial to integrate studies on the behaviour and transfer of volatile components from their starting conditions in the deep magmatic system through ascent in the volcanic conduit and release into the atmosphere. Combining these data with state-of-the-art geophysical methods and numerical modelling, will improve our understanding of the dynamics of magma degassing.

Guest Editors

Dr. Severine Moune

- Volcanological and Seismological Observatory of Guadeloupe (OVSG), Guadeloupe - Institut de physique du globe de paris (IPGP), 75005 Paris, France
- 2. Laboratoire Magmas et Volcans, Université Clermont Auvergne, Clermont-Ferrand, France

Dr. Geoff Kilgour

GNS Science, PO Box 30368, Lower Hutt, New Zealand

Deadline for manuscript submissions

closed (20 December 2022)



Geosciences

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 5.1



mdpi.com/si/39598

Geosciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
geosciences@mdpi.com

mdpi.com/journal/geosciences





Geosciences

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 5.1



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 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.

Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks, Fairbanks, AK, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q1 (General Earth and Planetary Sciences)

