

# COMPTES RENDUS GEOSCIENCE

Volume 351 (2019) – No. 8 – December

---



*Cover illustration:* Volcan Cotopaxi, one of the most dangerous volcanoes of the Ecuadorian Andes, having erupted last in 2015. (Photo: Bruno Scaillet.)

---

*Thematic issue*

## **New aspects of magma storage and transfer**

Guest editors:

**Bruno Scaillet, Laurent Arbaret, Fabrice Gaillard**

- Foreword  
**Bruno Scaillet, Laurent Arbaret and Fabrice Gaillard** ..... 523
- The intermediate step in fractionation trends of mildly alkaline volcanic suites: An experimental insight from the Pavin trachyandesite (Massif Central, France)  
**Morgane Rondet, Caroline Martel and Jean-Louis Bourdier** ..... 525
- Effect of anorthite on granite phase relations: Experimental data and models  
**Michel Pichavant, Catherine Weber and Arnaud Villaros** ..... 540
- Titanite: A potential solidus barometer for granitic magma systems  
**Saskia Erdmann, Rucheng Wang, Fangfang Huang, Bruno Scaillet, Kai Zhao, Hongsheng Liu, Yan Chen and Michel Faure** ..... 551
- Secular cooling and crystallization of partially molten Archaean continental crust over 1 Ga  
**Olivier Vanderhaeghe, Célia Guergouz, Cécile Fabre, Stéphanie Duchêne and David Baratoux** ..... 562
- Crystal clustering in magmas: Insights from HP–HT experiments  
**Laurent Arbaret, Misha Bystricky and Patrick Launeau** ..... 574