



## SP378: Advances in $^{40}\text{Ar}/^{39}\text{Ar}$ Dating: From Archaeology to Planetary Sciences (Geological Society Special Publication)

By F. Jourdan, D.F. Mark, C. Verati

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Decoding the complete history of Earth and our solar system requires the placing of the scattered pages of Earth history in a precise chronological order, and the  $^{40}\text{Ar}/^{39}\text{Ar}$  dating technique is one of the most trusted dating techniques to do that. The  $^{40}\text{Ar}/^{39}\text{Ar}$  method has been in use for more than 40 years, and has constantly evolved since then. The steady improvement of the technique is largely due to a better understanding of the K/Ar system, an appreciation of the subtleties of geological material and a continuous refinement of the analytical tools used for isotope extraction and counting. The  $^{40}\text{Ar}/^{39}\text{Ar}$  method is also one of the most versatile techniques with countless applications in archaeology, tectonics, structural geology, orogenic processes and provenance studies, ore and petroleum genesis, volcanology, weathering processes and climate, and planetary geology. This volume is the first of its kind and covers methodological developments, modelling, data handling, and direct applications of the  $^{40}\text{Ar}/^{39}\text{Ar}$  technique.

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## **Editorial Review**

### Review

All sections of the volume are well written and edited, concisely laid out with clear and appropriate figures, photographs and data-tables features that one has come to expect from the Geological Society Special Publication series.

In summary, the volume is a comprehensive and significant contribution to the field, and the editors are to be congratulated. I expect this will become a valuable complementary volume to the established principal reference work for the technique. (McDougall, I. & Harrison T.M. 1999. Geochronology and thermochronology by the 40Ar/39Ar Method. Oxford University Press. Oxford. 282pp)

--Reviewed by Mark Griffin

...the real strength of this book lies in the overall scientific quality of the chapters and diversity of the subject matter: current debates about standardization, resolution of isotopic variation and gradients at the sub-grain level, modelling argon retention during cooling, mineral growth, alteration, and resetting. These are all research topics that collectively underscore the fundamental utility of the 40Ar/39Ar method.

A significant accomplishment of this book is that it assembles chapters highlighting prevalent, and, in cases, contrasting, views of how 40Ar/39Ar data are acquired, modelled, and/or interpreted. In addition, the chapters that highlight sub-grain sample characterization and analysis provide a glimpse into research directions that should be more accessible with improved technology.

...The sturdy binding and high-quality printing of the book are typical of what readers have come to expect from The Geological Society book series. This book should have no trouble finding a place on the shelf of any scientist interested in 40Ar/39Ar methods.

--Michael Cosca, US Geological Survey

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**Shawn Croll:**

The book untitled SP378: Advances in 40Ar/39Ar Dating: From Archaeology to Planetary Sciences (Geological Society Special Publication) contain a lot of information on this. The writer explains your girlfriend idea with easy way. The language is very clear to see all the people, so do not really worry, you can easy to read this. The book was published by famous author. The author will take you in the new age of literary works. You can easily read this book because you can continue reading your smart phone, or program, so you can read the book within anywhere and anytime. In a situation you wish to purchase the e-book, you can open up their official web-site as well as order it. Have a nice read.

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