

Search Sources Analytics Alerts My list Settings

Quick Search

Search

[Back to results](#) | [< Previous](#) **9 of 27** [Next >](#)

[Download](#)[Export](#)[Print](#)[E-mail](#)[Create bibliography](#)[Add to My List](#)

Society of Petroleum Engineers - 73rd European Association of Geoscientists and Engineers Conference and Exhibition 2011 - Incorporating SPE EUROPEC 2011

Volume 7, 2011, Pages 5528-5530

73rd European Association of Geoscientists and Engineers Conference and Exhibition 2011 - Incorporating SPE EUROPEC 2011; Vienna; Austria; 23 May 2011 through 26 May 2011; Code 86342

Paleomagnetic study of the miocene volcanism in the southern part of the Gurgui Mountains (Eastern Carpathians)

(Conference Paper)

[Barbu, M.](#)^a, [Faur, L.](#)^a, [Visan, M.](#)^b

^a University of Bucharest, Romania

^b Institute of Geodynamics Sabba S. Stefanescu, Romania

Abstract

[View references \(3\)](#)

The Carpathian-Pannonian region (situated in The Eastern and Central Europe) has a great importance in solving the problem regarding the connection of magmatism with the tectonic processes of the area. The region contains Neogene to Quaternary magmatic rocks of highly diverse composition - large volumes of calc-alkaline magmatic products and sporadic small volumes of alkaline magma. The samples were obtained using a portable drill and oriented using both a magnetic and solar compass. In laboratory we identified both the magnetic mineralogy based on field and temperature variation of the magnetic susceptibility and the structure of the natural remanent magnetization using both alternating field demagnetization and thermal demagnetization. Geographical distribution of magnetic polarity in the sampling area corroborated with the available K-Ar ages has allowed us to show that the main phase of eruption in the southern part of the Gurgui Mountains took place during chron C3An, between 6.7 - 6.0 Ma.

Indexed keywords

Carpathians; Central Europe; Magmatic rock; Magmatisms; Magnetic mineralogy; Miocene; Natural remanent magnetization; Neo genes; Tectonic process; Temperature variation; Thermal demagnetization

Engineering controlled terms: Compasses (magnetic); Crystallography; Demagnetization; Engineers; Geographical distribution; Landforms; Magnetic polarity; Magnetic susceptibility; Mineralogy; Minerals; Petroleum engineering; Tectonics

Engineering main heading: Engineering exhibitions

ISBN: 978-161782966-6 **Source Type:** Conference Proceeding **Original language:** English

Document Type: Conference Paper

Cited by since 1996

This article has been cited **0** times

Inform me when this document is cited

[Set alert](#)

[Set feed](#)

Related documents

Showing the 2 most relevant documents by all shared references:

[Németh, K. , Pécskay, Z.](#)
New advances of understanding processes in the Carpathian global perspective
(2010) *Central European Journal of Geology*

[Lexa, J. , Seghedi, I. , Németh, I.](#)
Neogene-quaternary volcanism in the Pannonian region: A review
(2010) *Central European Journal of Geology*

[View all related documents by this author](#) or [select the shared reference](#)

Find more related documents

[Authors](#)

[Keywords](#)

[View in table layout](#)

References (3)

Page
 Export
 Print
 E-mail
 Create bibliography

- Seghedi, I., Downes, H., Szakács, A., Mason, P.R.D., Thirlwall, M.F., Emilian, R., Pécskay, Z., (...), Panaiotu, C.

1

Neogene-Quaternary magmatism and geodynamics in the Carpathian-Pannonian region: A synthesis

(2004) *Lithos*, 72 (3-4), pp. 117-146. Cited 108 times.

doi: 10.1016/j.lithos.2003.08.006

[View at Publisher](#)

- Seghedi, I., Szakács, A., Snelling, N.J., Pécskay, Z.

2 **Evolution of the neogene Gurghiu Mountains volcanic range (Eastern Carpathians, Romania), based on K-Ar geochronology**

(2004) *Geologica Carpathica*, 55 (4), pp. 325-332. Cited 8 times.

- van Hinsbergen, D.J.J., Dupont-Nivet, G., Nakov, R., Oud, K., Panaiotu, C.

3 **No significant post-Eocene rotation of the Moesian Platform and Rhodope (Bulgaria): Implications for the kinematic evolution of the Carpathian and Aegean arcs**

(2008) *Earth and Planetary Science Letters*, 273 (3-4), pp. 345-358. Cited 24 times.

doi: 10.1016/j.epsl.2008.06.051

[View at Publisher](#)

Barbu, M.; University of Bucharest, Romania

© Copyright 2011 Elsevier B.V., All rights reserved.

[Back to results](#) | [< Previous](#) **9 of 27** [Next >](#)

About Scopus

[What is Scopus](#)
[Content coverage](#)

Language

[日本語に切り替える](#)

Customer Service

[Contact and support](#)
[Live Chat](#)

About

[Elsevier](#)
[Terms and Conditions](#)
[Privacy Policy](#)

Copyright © 2013 Elsevier B.V. All rights reserved. SciVerse® is a registered trademark of Elsevier Properties S.A., used under license. Scopus® is a reg B.V.

Cookies are set by this site. To decline them or learn more, visit our [Cookies](#) page.