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2nd INTERNATIONAL KARATEKIN SCIENCE AND TECHNOLOGY CONFERENCE

21 - 22 DECEMBER 2023

ÇANKIRI, TÜRKİYE



ÇANKIRI KARATEKİN ÜNİVERSİTESİ
2007

Abstract

Proceeding Book



Science from Çankırı to the World

www.karatekin.edu.tr



IKSTC2nd

2nd International Karatekin Science and Technology Conference

ABSTRACT PROCEEDING BOOK

December 21-22, 2023 – Çankırı, Türkiye

Typesetting

Dr. Muhammed Bora AKIN

Dr. Zehra Gülten YALÇIN

Cover Design

İsmail IŞIK

Editors

Dr. Muhammed Bora AKIN

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ISBN: 978-605-82910-9-6



**PETROGRAPHIC CHARACTERISTICS OF THE MAFIC ENCLAVES OF
NEOGENE LAVA DOME AROUND SAĞLIK AND YATAĞAN AREA,
KONYA/TÜRKİYE**

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ABSTRACT

To the west of Konya, a widespread lava dome has evolved as a component of Neogene Erenlerdagi volcanism associated with subduction. Its formation involved assimilation-fractional crystallization (AFC) and/or magma mixing processes. The lava is characterized by occurrence well-developed Mafic Microcrystalline Enclaves (MME), which has variable sizes (from a few cm to a few meters) and shapes (ellipse/rounded-angular).

The enclave comprises phenocrysts of plagioclase (10-50%), green amphibole (10-15%), quartz (ocelli) (0-10%), biotite (0-5%), epidote (0-5%), and opaque minerals (5-50%). The matrix consists of plagioclase, chlorite, light green epidote, green amphibole, biotite, and opaque iron ore.

Keywords: Neogene, volcanism, enclave, lava, Konya
