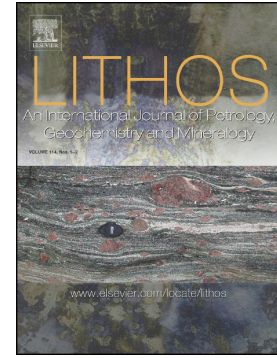


## Accepted Manuscript

Mineralogical, geochemical and isotopic characteristics of alkaline mafic igneous rocks from Punta delle Pietre Nere (Gargano, Southern Italy)



F.C. Mazzeo, I. Arienzo, M. Aulinas, M. Casalini, V. Di Renzo, M. D'Antonio

PII: S0024-4937(18)30110-5  
DOI: doi:[10.1016/j.lithos.2018.03.015](https://doi.org/10.1016/j.lithos.2018.03.015)  
Reference: LITHOS 4605

To appear in:

Received date: 4 October 2017  
Accepted date: 17 March 2018

Please cite this article as: F.C. Mazzeo, I. Arienzo, M. Aulinas, M. Casalini, V. Di Renzo, M. D'Antonio, Mineralogical, geochemical and isotopic characteristics of alkaline mafic igneous rocks from Punta delle Pietre Nere (Gargano, Southern Italy). The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Lithos*(2018), doi:[10.1016/j.lithos.2018.03.015](https://doi.org/10.1016/j.lithos.2018.03.015)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Mineralogical, geochemical and isotopic characteristics of alkaline mafic igneous rocks from Punta delle Pietre Nere (Gargano, Southern Italy)

F.C. Mazzeo<sup>1\*</sup>, I. Arienzo<sup>2</sup>, M. Aulinas<sup>3</sup>, M. Casalini<sup>4</sup>, V. Di Renzo<sup>5</sup>, M. D'Antonio<sup>1,2</sup>,

1. Dipartimento di Scienze della Terra, dell'Ambiente e delle Risorse, Università degli Studi di Napoli Federico II, Complesso Universitario di Monte Sant'Angelo, Via Vicinale Cupa Cintia 26, Napoli, Italy

2. Istituto Nazionale di Geofisica e Vulcanologia, sezione di Napoli Osservatorio Vesuviano, Via Diocleziano 328, Napoli, Italy

3. Departament de Geoquímica, Petrologia i Prospecció Geològica, Facultat de Geologia, Universitat de Barcelona (UB), Carrer Martí i Franquès s.n., Barcelona, Spain

4. Dipartimento di Scienze della Terra, Università degli Studi di Firenze, Via G. La Pira 4, Firenze, Italy

5. Agenzia Regionale Protezione Ambientale Campania, Dipartimento Provinciale di Napoli, Via Don Bosco 4/F, Napoli, Italy

\* Corresponding Author: [fabiocarmine.mazzeo@unina.it](mailto:fabiocarmine.mazzeo@unina.it)

## Abstract

The Punta delle Pietre Nere (Gargano, Southern Italy) igneous body is constituted by gabbroic and syenitic rocks with lamprophyric affinity of different age (58 and 62Ma, respectively). The chemical composition of the minerals clearly indicates that there is no genetic relationship between the two lithotypes, in agreement with their significant age difference. The chemical (trace elements) and Sr-Nd-Pb-isotopic composition of these rocks highlights an “anorogenic” geochemical affinity derived from mixed DMM-HIMU-EM mantle reservoirs, similarly to other Paleogene-Oligocene

Download English Version:

<https://daneshyari.com/en/article/8911654>

Download Persian Version:

<https://daneshyari.com/article/8911654>

[Daneshyari.com](https://daneshyari.com)