

UNIVERSITE NAZI BONI

Unité de Formation et de Recherche
en Sciences Exactes et Appliquées
(UFR/SEA)

Département de Chimie

Laboratoire de Chimie et Energies
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BURKINA FASO
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Friday, 1st November 2024

Object: Submission of an original research paper

Dear Editor, I am pleased to submit an original research article entitled “**Physical and mechanical properties of a tile produced with Burkina Faso clay**” to the Mediterranean Journal of Chemistry. The article is the result of work carried out in the “Laboratoire de Chimie et Energies Renouvelables (LaCER)” at Nazi Boni University (Burkina Faso). For some years now, players in the building materials sector have been interested in methods for improving the geotechnical parameters of clay materials, with the aim of producing quality floor and wall tiles at lower cost. These methods are based on criteria such as making the most of local materials, eco-construction and reducing environmental pollution. Several research projects have been carried out on this technology for improving properties. These include improving the physical and mechanical properties of tiles. However, very little work has been done using local clays from our country (Burkina Faso) with the addition of natural feldspar to produce tiles with a relatively low firing temperature. This article explains how the addition of feldspar makes it possible to lower the firing temperature of tiles while improving the parameters that are important in the field of ceramics. These highly original results will be of interest to researchers who read the Mediterranean Journal of Chemistry.

I confirm that all co-authors have approved the submission of this manuscript and that there are no conflicts of interest related to this work.

To facilitate the review process, I propose the following three reviewers, whose expertise is related to the topic of our paper:

- Kouame Alfred Niamien, Laboratory of Constitution and Reaction of Matter, Félix Houphouët-Boigny University, 22 BP 582 Abidjan 22, Abidjan, Côte d'Ivoire, kouame.alfred2@ufhb.edu.ci
- Sawadogo Moustapha, Laboratoire de Chimie Moléculaire et des Matériaux (LC2M), University Joseph Ki-Zerbo, Ouagadougou, Burkina Faso. sawtapha22@yahoo.fr
- Bodian Sékou, Institut Supérieur de Technologie (IST) de Mamou, Guinée, seckou.bodian@ucad.edu.sn

We hope that this study will contribute to advances in the field of ceramics and arouse the interest of the readers of the Mediterranean Journal of Chemistry. Please do not hesitate to contact me should you require any further information.

Please let me know if you require any further information.

Yours sincerely

On Behalf of all Contributing Authors:

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