

From: **Optical Materials** <em@editorialmanager.com>

Date: Mon, Feb 1, 2021 at 8:06 PM

Subject: Your Submission

To: Dahlang Tahir <dtahir@fmipa.unhas.ac.id>

Ms. Ref. No.: OM-D-20-02936

Title: Effect of Fe₃O₄ in Enhancement Optical Properties and Absorption Gamma Radiation Properties of Geopolymer Apron Cassava Starch/Black Carbon/Glycerin
Optical Materials

Dear Professor Tahir,

I am pleased to inform you that your paper "Effect of Fe₃O₄ in Enhancement Optical Properties and Absorption Gamma Radiation Properties of Geopolymer Apron Cassava Starch/Black Carbon/Glycerin" has been accepted for publication in Optical Materials. Depending on the journal that you have chosen during the submission process, we will ensure that we process your paper in the correct journal.

Below are comments from the editor and reviewers.

Thank you for submitting your work to Optical Materials.

With kind regards,

Alok M Srivastava
Editor
Optical Materials

Comments from the editors and reviewers:

Reviewer #2:

Review Report

Ms. No.: OM-D-20-02936

Title: Effect of Fe₃O₄ in Enhancement Optical Properties and Absorption Gamma Radiation Properties of Geopolymer Apron Cassava Starch/Black Carbon/Glycerin

In this work the authors have synthesized Geopolymer apron cassava starch/BC/Fe₃O₄/ glycerin with different amounts of Fe₃O₄. Later, they have investigated various spectroscopic studies viz., FTIR, dielectric function, energy loss

function, attenuation constant, and propagation constant. Finally, they have estimated the effectiveness of radiation shielding parameters viz., linear attenuation coefficient (μ), mass attenuation coefficient (μ_s), half value layer (HVL), and mean free path (MFP) using gamma radiation source IBT 103 Cs 137. From the analysis of these results, the authors have achieved best performance of the composite for apron applications containing 1.5% Fe₃O₄.

Overall, it is a good piece of work. The results are presented in an impressive manner. I, therefore, recommend it for the publication in the current form.

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