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Invitation to review for Applied Radiation and Isotopes

1 message

Applied Radiation and Isotopes <em@editorialmanager.com> Fri, Feb 24, 2023 at 5:02 PM
Reply-To: Applied Radiation and Isotopes <support@elsevier.com>
To: Tarik Siddik <tarik.reshid@su.edu.krd>

ELSEVIER

Manuscript Number: ARI-D-23-00104

A Study on the Excitation Function Calculations of Deuteron-Induced Reactions for 10,11B and 12C nuclei

Dear Dr Siddik,

I would like to invite you to review the above referenced manuscript submitted by Prof.Dr. t , as I believe it falls within your expertise and interest. The abstract for this manuscript is included below.

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Kind regards,

Ferenc Szelecsenyi

Receiving Editor

Applied Radiation and Isotopes

Abstract:

Abstract
The goal of this article is to calculate cross sections of deuteron-induced reactions 10B(d,n)11C, 11B(d,n)12C, 11B(d,2n)11C, 11B(d,p)12B, 12C(d,n)13N, 12C(d,t)11C and 12C(d,)10B on 10,11B and 12C nuclei from threshold up to 30 MeV energy. These data have been evaluated and predicted by using EMPIRE 3.2.3, TALYS 1.95 and ALICE/ASH codes. Nuclear model calculations are carried out using different input parameters for the equilibrium and pre-equilibrium reaction processes. Various nuclear models are used to analyze the contribution of the PCROSS mean free path value, initial exciton number and level density models on excitation functions. The present data are compared to the experimental EXFOR data.

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