KADIRI Lamya May 31th, 2018

Ibn Tofail University, Faculty of sciences,

Department of chemistry,

Laboratory of Organic Synthesis and Extraction Processes,

Kenitra, Morocco

E-mail: Kadiri.lamya@gmail.com

Editor of Mediterranean Journal of chemistry

Dear Professor

I am pleased to submit an original research article entitled “**Coriandrum Sativum seeds as a novel green low-cost biosorbent of hazardous Methylene blue dye from aqueous solution: Spectroscopic, Kinetic and Thermodynamic studies**” by KADIRI Lamya and others co-authors signed in the article, for consideration for publication in your journal.

In this manuscript, we show that coriander seeds (CSS) are an excellent adsorbent for the removal of methylene blue (MB) dye from aqueous solutions. In fact, CSS is eco-friendly, abundant and inexpensive material and then can be an excellent biosorbent of dyes existing in industrial effluents.

The spectroscopic analyses were effectuated using FTIR and SEM in order to show the capacity of CSS to adsorb MB dye. The study of the effect of different parameters, such as contact time, CSS mass, solution pH, MB concentration, and temperature, was realized and has proved the rapid and efficient power adopted by CSS as a removal of the studied dye. Also, the regeneration study was effectuated for four cycles with excellent adsorption rates. The isotherm studies have revealed that the adsorption process obey Langmuir model. The maximum adsorption amount was found to be 107.53 mg/g. Finally, the determination of thermodynamic parameters has indicated the endothermic and spontaneous type of the removal process of MB through CSS.

We believe that this manuscript is appropriate for publication by your journal it aims to study and to suggest a solution for a current issue.

This manuscript has not been published and is not under consideration for publication elsewhere. We have no conflicts of interest.

Thank you for your consideration

Sincerely,

KADIRI Lamya, PhD

Student, Department of chemistry

Ibn Tofail University