Shraban Kumar Sahoo <shraban.sahoo@cutm.ac.in>

Manuscript RINT-D-20-00865 for review

2 messages

Research on Chemical Intermediates (RINT) <em@editorialmanager.com> Sat, Sep 19, 2020 at 9:12 AM
Reply-To: "Research on Chemical Intermediates (RINT)" <rinisharon.jeyaraj@springernature.com>
To: Shraban Kumar Sahoo <shraban.sahoo@cutm.ac.in>

Dear Prof. Sahoo,

In view of your expertise I would be very grateful if you could review the following manuscript which has been submitted to Research on Chemical Intermediates.

Manuscript Number: RINT-D-20-00865

Title: Facile preparation of MgO/graphene oxide nanocomposite for efficient removal of aqueous Congo red: adsorption performance and interaction mechanism

Abstract: Aqueous dyes are important source of water pollution. In this work, a nanocomposite MgO/graphene oxide (MgO/GO) was prepared with a simple solvothermal method. The as-prepared MgO/GO was characterized and employed as a potential adsorbent to remove aqueous Congo red (CR). The interaction mechanism between MgO/GO and CR was clarified. The adsorption of CR (initial concentration 700 mg·L -1) onto MgO/GO (dosage 1000 mg·L -1) equilibrated in 10 min, adsorption percent and adsorption quantity were 97.84% and 684.85 mg·g -1 , respectively. Compared with other adsorbents, MgO/GO was superior in adsorption efficiency due to the fast adsorption kinetics. Moreover, MgO/GO exhibited good adaptability to the fluctuations of environmental factors including CR initial concentration and coexisting electrolyte. The adsorption fit well with the Freundlich model and PSO model, chemical adsorption was the rate controlling step. Both GO and MgO in MgO/GO contributed to CR
adsorption. GO adsorbed CR via electrostatic attraction and face-to-face π-π interaction, MgO adsorbed CR via weak van der Waals force. Owing to the advantages as facile preparation, high adsorption efficiency and good environmental adaptability, MgO/GO may be a promising adsorbent for aqueous dyes.

In case you accept to review this submission please click on this link:

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If you do not have time to do this, or do not feel qualified, please click on this link:

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We hope you are willing to review the manuscript. If so, would you be so kind as to return your review to us within 18 days of agreeing to review? Thank you.

You are requested to submit your review online by accessing the Journal's website.

Your username is: Shraban Kumar Sahoo

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IN ORDER TO KEEP DELAYS TO A MINIMUM, PLEASE ACCEPT OR DECLINE THIS ASSIGNMENT ONLINE AS SOON AS POSSIBLE!

If you have any questions, please do not hesitate to contact us. We appreciate your assistance.

Thank you very much.

With kind regards,
Jinlong Zhang
Associate Editor
Research on Chemical Intermediates

Our flexible approach during the COVID-19 pandemic

If you need more time at any stage of the peer-review process, please do let us know. While our systems will continue to remind you of the original timelines, we aim to be as flexible as possible during the current pandemic.

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Shraban Kumar Sahoo <shraban.sahoo@cutm.ac.in> Sat, Sep 19, 2020 at 10:33 AM
To: "Research on Chemical Intermediates (RINT)" <rinisharon.jeyaraj@springernature.com>

Dear Editor
Good morning
I am glad to receive your email regarding reviewing the current manuscript. I read the abstract and found that the theme falls under my expertise.
I must review this manuscript.

Thank you,
Dr S K Sahoo
Department of Chemistry
School of Applied Sciences
Centurion university of Technology and Management, Odisha, India

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