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1 pesan

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24 November 2021 pukul 12.18

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SnO₂-Fe₃O₄ Nanocomposites for Photodegradation of the Congo Red Dye

Dear Dr Said,

We have received the above referenced manuscript you submitted to the Chemistry section of Heliyon. It has been assigned the manuscript number HELIYON-D-21-10447. To track the status of your manuscript, please log in as an author at <https://www.editorialmanager.com/heliyon/>, and navigate to the "Submissions Being Processed" folder.

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Kind regards,
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Muhammad Said Usman <msaidusman@unsri.ac.id>

Decision on submission HELIYON-D-21-10447 to Heliyon

2 pesan

Heliyon <em@editorialmanager.com>
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Kepada: Muhammad Said <msaidusman@unsri.ac.id>

29 Desember 2021 pukul 18.34

Manuscript. Number.: HELIYON-D-21-10447
Title: SnO₂-Fe₃O₄ Nanocomposites for Photodegradation of the Congo Red Dye
Journal: Heliyon

Dear Dr Said,

Thank you for submitting your manuscript to Heliyon.

We have completed the review of your manuscript and a summary is appended below. The reviewers recommend major revisions are required before publication can be considered.

If you are able to address all reviewer comments in full, I invite you to resubmit your manuscript. We ask that you respond to each reviewer comment by either outlining how the criticism was addressed in the revised manuscript or by providing a rebuttal to the criticism. This should be carried out in a point-by-point fashion as illustrated here: <https://www.cell.com/heliyon/guide-for-authors#Revisions>

To allow the editors and reviewers to easily assess your revised manuscript, we also ask that you upload a version of your manuscript highlighting any revisions made. You may wish to use Microsoft Word's Track Changes tool or, for LaTeX files, the latexdiff Perl script (<https://ctan.org/pkg/latexdiff>).

To submit your revised manuscript, please log in as an author at <https://www.editorialmanager.com/heliyon/>, and navigate to the "Submissions Needing Revision" folder. Your revision due date is Feb 07, 2022.

We understand that the COVID-19 pandemic may well be causing disruption for you and your colleagues. If that is the case for you and it has an impact on your ability to make revisions to address the concerns that came up in the review process, please reach out to us.

I look forward to receiving your revised manuscript.

Kind regards,
Yingchao Dong
Associate Editor - Materials Science
Heliyon

Editor and Reviewer comments:

Reviewer 1: Thank you very much for choosing me as a potential reviewer for the manuscript entitled "SnO₂-Fe₃O₄ Nanocomposites for Photodegradation of the Congo Red Dye"

In this work class of Nano compounds such as SnO₂ -Fe₃O₄ nanocomposites was synthesized. The authors have been determined some physicochemical characterization parameters such as XRD analysis. The authors study the effectiveness of photodegradation Congo red by SnO₂-Fe₃O₄ nanocomposites, determine the kinetics of photodegradation, and test the antibacterial properties of SnO₂-Fe₃O₄ nanocomposites. The subject is interesting to the journal readers. I recommend this paper for publication in journal of Heliyon after the modification. Despite the valuable results presented in the manuscript, some points should be addressed prior to a possible publication.

1. In section Antimicrobial activity the authors must put their results in proper perspective
2. I suggest adding some sentences in Introduction about previous reports led authors think about biol activity . Molecules 2021, 26, 2269. <https://doi.org/10.3390/molecules26082269>

Materials Research Bulletin 133 (2021) 111048 <https://doi.org/10.1016/j.materresbull.2020.111048>

Reviewer 2: Methods:

Results:

Interpretation:

Other comments:

In this study, SnO₂-Fe₃O₄ nanocomposite was used as a photocatalyst to remove Congo Red dye from aqueous solution. SEM, TEM, FTIR, etc. have been used to evaluate the properties of photocatalysts and the effect of various parameters on dye removal efficiency has been investigated. The present study has good results for researchers active in the field of environment. The following proposed amendments need to be made before final acceptance:

- In the introduction section, it is necessary to provide information about paints, their classification, the importance of removing them from aqueous solutions and the environment, and various methods of removing them. Refer to the following articles.

- Uptake of anionic and cationic dyes from water using natural clay and clay/starch/MnFe₂O₄ magnetic nanocomposite." *Surfaces and Interfaces* 21 (2020): 100754., Performance of montmorillonite/graphene oxide/CoFe₂O₄ as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater." *Advanced Powder Technology* 31.9 (2020): 3993-4004., Crystal violet dye sorption over acrylamide/graphene oxide bonded sodium alginate nanocomposite hydrogel." *Chemosphere* 270 (2021): 129419., Evaluation of two cationic dyes removal from aqueous environments using CNT/MgO/CuFe₂O₄ magnetic composite powder: A comparative study." *Journal of Environmental Chemical Engineering* 9.2 (2021): 104752.

- In section 2.1% of the purity of the mentioned materials should be presented.

- What is the role of ethanol in the synthesis of SnO₂?

- An appropriate reference should be provided for the synthesis of the desired nanocomposite.

- In Figure 1, it is necessary to mention the crystalline phases on the spectrum provided.

- For the interpretation of the XRD spectrum presented for Fe₃O₄, it is suggested to provide an appropriate reference. Refer to the following articles.

- Adsorption mercury, cobalt, and nickel with a reclaimable and magnetic composite of hydroxyapatite/Fe₃O₄/polydopamine." *Journal of Environmental Chemical Engineering* 9.4 (2021): 105709., Decoration of Citrus limon wood carbon with Fe₃O₄ to enhanced Cd²⁺ removal: A reclaimable and magnetic nanocomposite." *Chemosphere* (2021): 131088.

- In interpreting TEM analysis, it is necessary to provide the necessary images for Fe₃O₄ and SnO₂.

- It is recommended to use EDX-Map analysis along with SEM analysis.

- It is mentioned in Table 2 that in the structure of SnO₂-Fe₃O₄ nanocomposite; There are elements C, Si and Co. What are these elements caused by?

- In interpreting the presented FTIR analysis, it is necessary to provide an appropriate reference and show the mentioned factor groups on the presented spectrum. Refer to the following articles.

- Impact of ZnO and Fe₃O₄ magnetic nanoscale on the methyl violet 2B removal efficiency of the activated carbon oak wood." *Chemosphere* 286 (2022): 131632., Zn²⁺ removal from the aqueous environment using a polydopamine/hydroxyapatite/Fe₃O₄ magnetic composite under ultrasonic waves." *RSC Advances* 11.44 (2021): 27309-27321.

- It is necessary to present Figures 6 and 7 together so that a proper comparison can be made between them.

- Change the scale of the vertical axis in Figure 9, because spectrum (a) shows an efficiency of more than 50 while its axis shows up to 50%.

- It is necessary to provide the mathematical formula of the desired kinetic equations.

- It is necessary to provide the reaction conditions such as reaction time, amount of catalyst, pH, etc. under the desired figures.

- It is necessary to provide the characteristics of the UV light source.

-It is suggested that the effect of other effective parameters such as the initial concentration of Congo Red dye, the amount of SnO₂-Fe₃O₄ nanocomposite, pH on the efficiency of the removal process be investigated.

- It is necessary to provide a suitable mechanism for degradation and removal of Congo Red dye using SnO₂-Fe₃O₄ nanocomposite.

Data in Brief (optional):

We invite you to convert your supplementary data (or a part of it) into an additional journal publication in Data in Brief, a multi-disciplinary open access journal. Data in Brief articles are a fantastic way to describe supplementary data and associated metadata, or full raw datasets deposited in an external repository, which are otherwise unnoticed. A Data in Brief article (which will be reviewed, formatted, indexed, and given a DOI) will make your data easier to find, reproduce, and cite.

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29 Desember 2021 pukul 22.31

[Kutipan teks disembunyikan]



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Decision on submission to Heliyon

2 pesan

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25 Maret 2022 pukul 18.51

Manuscript Number: HELIYON-D-21-10447R3
Title: SnO₂-Fe₃O₄ Nanocomposites for the Photodegradation of the Congo Red Dye
Journal: Heliyon

Dear Dr Said,

Thank you for submitting your manuscript to Heliyon.

I am pleased to inform you that your manuscript has been accepted for publication.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

We appreciate and value your contribution to Heliyon. We regularly invite authors of recently published manuscript to participate in the peer review process. If you were not already part of the journal's reviewer pool, you have now been added to it. We look forward to your continued participation in our journal, and we hope you will consider us again for future submissions.

Kind regards,
Kevin Yu
Editorial Assistant
Heliyon

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26 Maret 2022 pukul 21.31

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