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Ms. Ref. No.: MATCHEMPHYS-D-20-00031
Title: MnFe₂O₄ Nanoparticles/Cellulose Acetate Composite Nanofiber for Controllable Release of Naproxen
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Dear zakki,

Your submission entitled "MnFe₂O₄ Nanoparticles/Cellulose Acetate Composite Nanofiber for Controllable Release of Naproxen" has been assigned the following manuscript number: MATCHEMPHYS-D-20-00031.

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Your Submission

1 message

Lia Stanciu <eesserver@eesmail.elsevier.com>
Reply-To: Lia Stanciu <lstanciu@purdue.edu>
To: m.zakki.fahmi@fst.unair.ac.id

Tue, Mar 31, 2020 at 12:53 AM

Ms. Ref. No.: MATCHEMPHYS-D-20-00031
Title: MnFe₂O₄ Nanoparticles/Cellulose Acetate Composite Nanofiber for Controllable Release of Naproxen
Materials Chemistry and Physics

Dear Dr. Fahmi,

Reviewers have now commented on your paper. You will see that they are advising that you revise your manuscript. If you are prepared to undertake the work required, I would be pleased to reconsider my decision.

For your guidance, reviewers' comments are appended below.

If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript. Your revised manuscript should be submitted within 30 days.

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Yours sincerely,

Lia Stanciu
Editor
Materials Chemistry and Physics

Reviewers' comments:

Reviewer #1: This manuscript can be accepted for publication in the journals after the authors provide sufficient responses to the following comments:

1. The novelty of the study should be mentioned in the introduction section.
2. The purity of the chemicals used in the study should be given.
3. Section 3.1. The authors mentioned that the purity and crystallinity of the MnFe₂O₄ was characterized using XRD, what is the purity and crystallinity of the sample?
4. The unit of each parameters in the model should be given in the manuscript.

Reviewer #3: MnFe₂O₄ Nanoparticles/Cellulose Acetate Composite Nanofiber for Controllable Release of Naproxen

Magnetic composite nanofibers have been synthesized using cellulose Acetate, collagen and MnFe₂O₄ nanoparticles by electrospinning method. The formed electro spun nanofibers were then used for the controlled naproxen drug release. The MnFe₂O₄ nanoparticles were characterized by XRD, SEM and DLS graph. The composite nanofibers containing MnFe₂O₄ nanoparticles are characterized by SEM-EDX, TEM, FTIR and TGA. The work also includes kinetic study of the drug release from the nanofibers.

MNPs loaded nanofibers have found to aid naproxen release in a controllable manner. The synthesized nanofibers were found to become thinner and possessed much lower diameter with an increase in the conductivity of the dope solution.

Comments to the Author:

Though the work done is substantial, the following are to be addressed by the authors so as to make it more efficacious:

1. Does increasing the conductivity of the dope solution has an effect on the MNP loading onto the nanofibers? If so, to what extent?
2. Is naproxen release accompanied by MNP release during the application? What is the fate of the loaded MNPs after application?
3. XRD peaks corresponding to different planes must be indexed in Figure 1.
4. Errors in framing of sentences are observed throughout the manuscript like:

Page 2 - line 61.

Page 3 - line 1.

Page 4 - Lines 52,53 - Make it more clear.

Page 8 - Lines 34, 35.

Page 9 - Figure 4b label has to be modified for clarity.

Page 10, 11 - Figure 6, 7 - In the label, use COL instead of KOL.

Data in Brief (optional):

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Reference: MAC_123055
Journal title: Materials Chemistry and Physics
Article Number: 123055
Corresponding author: Professor mochamad zakki fahmi
First author: Dr. mochamad zakki fahmi
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Article reference: MAC_123055
Journal title: Materials Chemistry and Physics
Article Number: 123055
Corresponding author: Professor Mochamad Zakki Fahmi
First author: Dr. Mochamad Zakki Fahmi
First published version available online: 15-APR-2020
DOI information: 10.1016/j.matchemphys.2020.123055

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