



Maria Yuliana <mariayuliana@ukwms.ac.id>

Confirming submission to Materials Today Chemistry

1 message

Materials Today Chemistry <em@editorialmanager.com>
Reply-To: Materials Today Chemistry <support@elsevier.com>
To: Maria Yuliana <mariayuliana@ukwms.ac.id>

Wed, Aug 10, 2022 at 10:13 AM

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pH-responsive hollow-core zeolitic-imidazolate framework-8 as an effective drug carrier of 5-fluorouracil

Dear Dr. Yuliana,

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Maria Yuliana <mariayuliana@ukwms.ac.id>

Decision on submission to Materials Today Chemistry

2 messages

Materials Today Chemistry <em@editorialmanager.com>
Reply-To: Materials Today Chemistry <support@elsevier.com>
To: Maria Yuliana <mariayuliana@ukwms.ac.id>

Fri, Sep 23, 2022 at 9:05 AM

Manuscript Number: MTCHEM-D-22-01758

pH-responsive hollow-core zeolitic-imidazolate framework-8 as an effective drug carrier of 5-fluorouracil

Dear Dr. Yuliana,

Thank you for submitting your manuscript to Materials Today Chemistry.

I have completed my evaluation of your manuscript. The reviewers recommend reconsideration of your manuscript following minor revision and modification. I invite you to resubmit your manuscript after addressing the comments below. Please resubmit your revised manuscript by Oct 22, 2022.

When revising your manuscript, please consider all issues mentioned in the reviewers' comments carefully: please outline every change made in response to their comments and provide suitable rebuttals for any comments not addressed. Please note that your revised submission may need to be re-reviewed.

To submit your revised manuscript, please log in as an author at <https://www.editorialmanager.com/mtchem/>, and navigate to the "Submissions Needing Revision" folder under the Author Main Menu.

Materials Today Chemistry values your contribution and I look forward to receiving your revised manuscript.

Kind regards,

Teruaki Hayakawa, Ph.D.

Associate Editor

Materials Today Chemistry

Editor and Reviewer comments:

Reviewer #1: This work reports a novel drug carrier, the hollow core zeolitic imidazolate framework-8 (HZIF-8), which uses polystyrene as a hard template to sequentially load and release 5-fluorouracil (FU). HZIF-8 gives an excellent performance as a drug carrier for FU. The release study exhibits the pH-responsive characteristics of HZIF-8 where a higher and better-controlled release is observed at pH = 5.5 than at pH = 7.4. The results are interesting, and there are some problems that must be solved before it is published in the Materials Today Chemistry. Detailed comments are listed below.

Comment 1: In the Part 2.5, the author mentioned that "the concentration of the remaining FU in the supernatant is measured using Shimadzu UV-Vis spectrophotometer 2600 (Shimadzu, Japan) at a wavelength (λ) of 265.5 nm." However, the original spectrum of UV-vis is not provided in the article, and the author should reflect it in the article.

Comment 2: In the article, HZIF-8 gives an excellent performance as a drug carrier for Fu. Then, how about the chemical stability of HZIF after loading FU. Similarly, the author needs to provide the BET performance of FU loaded HZIF-8 to further prove whether FU is adsorbed on the surface of hzif-8 or filled into the pores.

Comment 3: In the Part 3.1, it is mentioned that "the elemental mapping of HZIF-8 (Figure 1e - 1h) also exhibits the uniform distribution of zinc, carbon, oxygen, and nitrogen in the material." From figure 1h, it can be seen that nitrogen is not uniformly distributed in HZIF-8.

In addition, for structure and properties of ZIFs, please include related reviews: Coord. Chem. Rev. 2022, 471, DOI: 10.1016/j.ccr.2022.214759. Materials Today Advances, 2021, 10, 100145. Chem. Soc. Rev., 2018, 47, 2130-2144.

Reviewer #2: Manuscript Number: MTCHEM-D-22-01758

Title: pH-responsive hollow-core zeolitic-imidazolate framework-8 as an effective drug carrier of 5-fluorouracil

Recommendation: This paper is acceptable after minor revisions.

Comments: In this work, author developed the hollow ZIF-8 is designed using polystyrene as a hard template to sequentially load and release 5-FU. This manuscript was well organized. It can be published after addressing following points:

- (1) It is interesting to construct hollow structure in ZIF-8. But author should discuss in details why the hollow is needed? The molecular size of 5-FU is smaller than pore aperture. What is the difference between hollow structure and small particle size.
- (2) Could author provide the zeta potential of nanoparticles?
- (3) Error bar should be added in Figure 7.
- (4) There are some related works that can be added as references. Such as discussed in Adv. Mater. 2017, 29, 1606134; J. Am. Chem. Soc. 2016, 138, 962.
- (5) The release mechanism should be discussed.
- (6) STEM image and EDS mapping should appear together.

Data in Brief (optional):

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Maria Yuliana <mariayuliana@ukwms.ac.id>
To: Christian Julius Wijaya <christian_wijaya@ukwms.ac.id>

Fri, Sep 23, 2022 at 9:09 AM

Best regards,

Ir. Maria Yuliana, S.T., Ph.D., IPM.
Asst. Professor - International Bachelor Program Coordinator
Chemical Engineering Department - Faculty of Engineering
Widya Mandala Surabaya Catholic University
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Maria Yuliana <mariayuliana@ukwms.ac.id>

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1 message

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To: Maria Yuliana <mariayuliana@ukwms.ac.id>

Sat, Oct 8, 2022 at 3:30 PM

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Manuscript Number: MTCHEM-D-22-01758R1

pH-responsive hollow-core zeolitic-imidazolate framework-8 as an effective drug carrier of 5-fluorouracil

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Maria Yuliana <mariayuliana@ukwms.ac.id>

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1 message

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Wed, Oct 26, 2022 at 9:55 AM

Manuscript Number: MTCHEM-D-22-01758R1

pH-responsive hollow-core zeolitic-imidazolate framework-8 as an effective drug carrier of 5-fluorouracil

Dear Dr. Yuliana,

Thank you for submitting your manuscript to Materials Today Chemistry.

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

My comments, and any reviewer comments, are below.

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 you submitting your manuscript to Materials Today Chemistry and hope you will consider us again for future submissions.

We encourage authors of original research papers to share the research objects – including raw data, methods, protocols, software, hardware and other outputs – associated with their paper. More information on how our open access Research Elements journals can help you do this is available at https://www.elsevier.com/authors/tools-and-resources/research-elements-journals?dgcid=ec_em_research_elements_email.Kind regards,
Teruaki Hayakawa, Ph.D.
Associate Editor

Materials Today Chemistry

Editor and Reviewer comments:

Reviewer #1: this work can be accepted since all my concerned have been addressed.

Reviewer #2: Recommendation: This paper is acceptable.

Comments: The manuscript has been improved a lot. Most suggestions are addressed and revised according to referees' comments. Therefore, I recommend to accept this manuscript.

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