

Thank you for your submission to Materials Chemistry and Physics

1 message

Materials Chemistry and Physics <em@editorialmanager.com>

Tue, Jan 5, 2021 at 1:18 PM

Reply-To: Materials Chemistry and Physics <matchemphys@elsevier.com>

To: mochamad zakki fahmi <m.zakki.fahmi@fst.unair.ac.id>

Dear Professor fahmi,

Thank you for sending your manuscript Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect for consideration to Materials Chemistry and Physics. Please accept this message as confirmation of your submission.

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2. Click on [Author Login]. This will take you to the Author Main Menu

3. Click on [Submissions Being Processed]

Many thanks again for your interest in Materials Chemistry and Physics.

Kind regards,

Professor Sammy Lap Ip Chan, Professor Jenq-Gong Duh

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Your Submission

2 messages

Lia Stanciu <em@editorialmanager.com>
Reply-To: Lia Stanciu <lstanciu@purdue.edu>
To: mochamad zakki fahmi <m.zakki.fahmi@fst.unair.ac.id>

Fri, Mar 5, 2021 at 9:33 AM

Ms. Ref. No.: MATCHEMPHYS-D-21-00064
Title: Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect
Materials Chemistry and Physics

Dear authors,

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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Your username is: m.zakki.fahmi@fst.unair.ac.id

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<http://www.elsevier.com/journals/materials-chemistry-and-physics/0254-0584/guide-for-authors>

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Highlights consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). See the following website for more information
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Graphical Abstracts should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership online. Refer to the following website for more information: <http://www.elsevier.com/graphicalabstracts>

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Yours sincerely,

Lia Stanciu
Editor
Materials Chemistry and Physics

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Reviewers' comments:

Reviewer #1: In this manuscript, the author reports the "Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect" Herein, the authors prepared CDs from folic acid through furnace and microwave-assisted methods. The properties of the CDs and the drug delivery were well discussed. The authors should address the following minor questions before getting a possible publication.

1. Dialysis is an important step for purification of nanoparticle. Did dialysis was done for the purification of CDs? It is not mentioned in the 2.2 Synthesis section
2. The author may provide the TEM image of the CDs.
3. The formatting and grammatical errors in the article need to be checked carefully
4. The author should write purpose for each test in one/two sentences (in brief) before explaining the results of the characterization techniques. Therefore, the logic and organization of this part will be enhanced.
5. The legend of the Figures should be uniform throughout the manuscript.
6. The photostability of the FACDs should be performed.
7. What about the zeta potentials of the FACDs?
8. The authors cited some of the relevant research works that have been conducted in this area however there are a few that needs to be included (shown below) in the Introduction section: Materials Chemistry and Physics 237 (2019): 121860; Journal of Materials Chemistry B 4.30 (2016): 5119-5126; Research on Chemical Intermediates 45.7 (2019): 3823-3853; ACS Applied Materials & Interfaces 12.46 (2020): 51940-51951; Carbon 114 (2017): 324-333; ACS Appl. Nano Mater. 2020, 3, 12, 11777-11790 (<https://doi.org/10.1021/acsnm.0c02305>)

Reviewer #2: Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect

Authors have contributed an immense effort to build this novel research study. Despite the conventional folic acid conjugation on carbon dots surface, this current study describes an innovative concept by synthesizing FACDs via dehydration and carbonization. However, there are few significant errors that the authors should focus on,

- 1) In the introduction, the authors should compare the significance of this current approach with the previously published folic acid conjugation studies.
- 2) Authors were mentioned the FACDs were collected after the centrifugation. However, you should mention the particular purification method for the CDs. Because, even after the centrifugation, some small debris can be trapped with the colloidal sample. Thus at least a dialysis purification is needed before the Dox conjugation.
- 3) a) For the FACD-Dox conjugation, the 1000 MWCO membrane was used at the purification step. However, the authors have not mentioned any related mass analysis by MALDI-TOF to confirm why they used specifically the 1000 MWCO membrane. Please indicate the MALDI-TOF analysis or explain the reason behind using the particularly the 1000 MWCO membrane for FACD-dox conjugate purification.
b) Indicate the solvent you used for the dialysis purification of the Dox conjugates.
- 4) Figure 1a Inset is not clear, especially the labeling of the inset
- 5) Doxorubicin loading content of the FACDs-dox should be calculated.
- 6) Vertical error bars should be added to each data point in Figure 6 according to the correct standard deviation or standard error. Also, the authors should mention whether the data in the drug release experiment and cell viability are reproducible by indicating how many times the experiments were repeated.
- 7) Grammatical errors and the English style should be corrected throughout the manuscript by a native English

speaker. For instance, Page No.02 introduction Line No 29-30. Please avoid using the word spectrometer in each spectroscopic technique.

Reviewer #5: The folic acid-based carbon dots (FACDs) has been prepared using the bottom-up approach with thermal treatment and microwave-assisted method. The quality of the FACDs was examined by fluorescence, FTIR, Raman and XPS analyses. The dots were applied on HeLa cancer cells to understand the diagnostic capability on the cell line.

The comments are the following:

1. P.1, line 47: The great affinity is on what system or molecule(s)?
2. P.2, scheme 1: The table should refer to a model of the FACDs structure.
3. P.2, line 41: Why to report a degree of purity of 94-96% knowing that azeotrope is at 96% of ethanol and 4% of water?
4. P.2, line 45: What is the degree of purity of DOX?
5. P.2, line 57: Why the use of NaOH in the microwave-assisted method?
6. P.2, line 48: FACDs instead of FACDS.
7. P.2, section 2.3: More details should be given to assure the reproducibility of the preparation in another lab. How can we have combination between CDs and DOX without using the amidation process "EDC/NHS"?
8. P.3, line 1: What is the slit width at the excitation and the emission of the spectrofluorimeter?
9. P.4, line 34: There is no experimental evidence to prove the formation of graphene-like structure. Line 37-40, the authors should not suggest that graphene oxide is obtained in the core of CDs, what are the experimental evidence to support this hypothesis?
10. P.4, line 45 and 56: The interpretation of the absorption band at 259 nm from the core is not supported by an experimental data. It should also be due to a surface moiety produced during the thermal or microwave process.
11. P.5, line 20: (Fig 2a to 2f) instead of (Fig. 2f)
12. P.5, line 32: Carbon core...to revise.
13. P.5, line 43: Figure 3 instead of Fig. 4
14. P.5, line 43-58: All the assignments for the FTIR spectra should be identified in the figure with arrows.
15. P.6, line 25: amortization???
16. P.6, line 4: "investigation of of ... to revise
17. P.6, line 6: What is the % of error in the d-spacing?
18. P.6, line 5: How is the significant the decimal on the R2 value? See also line 57.
19. P.7, line 34: Which interaction is the most important or predominant? See also conclusion.

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 **Recommendation_04.03.21.docx**
17K

Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>
To: aswandi wibrianto <aswandi.wibrianto-2016@fst.unair.ac.id>

Wed, Mar 10, 2021 at 9:15 PM

klo ada komentar yang sulit, dilewati saja biar saya yang jawab

Best Regards,

Mochamad Zakki Fahmi, Ph.D (張家具)

Associate Professor, Department of Chemistry
Universitas Airlangga
Phone : +62-838-32901697
Email : m.zakki.fahmi@fst.unair.ac.id



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Recommendation_04.03.21.docx

17K

Please edit your submission MATCHEMPHYS-D-21-00064R1

1 message

Materials Chemistry and Physics <em@editorialmanager.com>

Tue, Mar 23, 2021 at 8:30 PM

Reply-To: Materials Chemistry and Physics <matchemphys@elsevier.com>

To: mochamad zakki fahmi <m.zakki.fahmi@fst.unair.ac.id>

Re: MATCHEMPHYS-D-21-00064R1

Title: Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect

Corresponding Author: Professor mochamad zakki fahmi

Dear zakki,

Your submission entitled "Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect" has been received by Materials Chemistry and Physics.

However, before we can proceed with the review process we ask you to address the following:

1. Kindly provide the Highlights. Please amend your Highlights so that they consist of 3 to 5 brief bullet points which convey the core findings of your work. Please ensure EACH bullet point does NOT exceed 125 characters (including spaces). Please see <http://www.elsevier.com/wps/find/authors.view.Authors/highlights> for more information.
2. Kindly change the description of the following files:
 1. Electronic Supplementary Material
 2. Response to Reviewers
 3. Highlights (for review)

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1. Go to the menu item "Submissions/Revisions Sent Back to Author".
2. Click "Edit Submission/Revision".
3. Click on the relevant submission step on the left-hand menu;
4. Provide or modify the item/information as requested.
5. Go to "Attach Files" and "Build PDF for my Approval".
6. View and Approve your new PDF file including the changed item(s), or if needed, Edit again.

Thank you for submitting your work to the journal, and if you have any questions, please don't hesitate to contact me.

Yours sincerely,

Materials Chemistry and Physics

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Your Submission

1 message

Materials Chemistry and Physics <em@editorialmanager.com>
Reply-To: Materials Chemistry and Physics <matchemphys@elsevier.com>
To: mochamad zakki fahmi <m.zakki.fahmi@fst.unair.ac.id>

Tue, Apr 6, 2021 at 12:36 AM

Ms. Ref. No.: MATCHEMPHYS-D-21-00064R1
Title: Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect
Materials Chemistry and Physics

Dear zakki,

A final disposition of "Accept" has been registered for the above-mentioned manuscript.

Your paper is now being sent to the production department, please note that you will receive notification once your paper is registered in our production tracking system.

You will receive further communication from the production department in due course.

Kind regards,

Materials Chemistry and Physics

Comments from the Editors and Reviewers:

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Publication of your article [MAC_124596] in Materials Chemistry and Physics is on hold due to file problems

3 messages

A.Achuthan@elsevier.com <A.Achuthan@elsevier.com>

Thu, Apr 15, 2021 at 10:47 PM

To: m.zakki.fahmi@fst.unair.ac.id

Our reference: MAC 124596

Article reference: MAC_MATCHEMPHYS-D-21-00064

Article title: Simple and fast design of folic acid-based carbon dots as theranostic agent and its drug release aspect

To be published in: Materials Chemistry and Physics

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Thank you for your help with this issue; I look forward to hearing from you soon.

Kind regards,

A Achuthan

Data Administrator

Elsevier

E-Mail: A.Achuthan@elsevier.com

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Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>

Fri, Apr 16, 2021 at 1:14 PM

To: A.Achuthan@elsevier.com

Dear Editor,

We thank to your previous information about our paper and we are sorry for the mistake. The sentence referring to Table 2 performing as " The QY data form obtained FACDs

are comparable with previous studies, which is exhibit excellent optical properties of CDs (Table 2)." It should be changed to " The QY data form obtained FACDs are comparable with previous studies, which is exhibit excellent optical properties of CDs (Table S1)." please help us to do the modification. Thank you

Best Regards ,

Mochamad Zakki Fahmi, Ph.D (張家其)
Associate Professor, Department of Chemistry
Universitas Airlangga
Phone : +62-838-32901697
Email : m.zakki.fahmi@fst.unair.ac.id



[Quoted text hidden]

Achuthan, Arivalagan (ELS-CON) <A.Achuthan@elsevier.com>
To: Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>

Sun, Apr 18, 2021 at 4:21 PM

Dear Dr.Fahmi ,

Thank you for your email. This is to confirm you that we have received response for your article.

Will get back to you in case of any further assistance required.

Regards,
Vishwa (on behalf of Arivalagan Achuthan)
Data Administrator
ELSEVIER | Research Content Operations
E-Mail: A.Achuthan@elsevier.com

From: Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>

Sent: 16 April 2021 11:44

To: Achuthan, Arivalagan (ELS-CON) <A.Achuthan@elsevier.com>

Subject: Re: Publication of your article [MAC_124596] in Materials Chemistry and Physics is on hold due to file problems

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