
[IJC] Submission Acknowledgement

1 message

Prof. Dr.rer.nat. Nuryono, MS <nuryono_mipa@ugm.ac.id>
To: "Dr. M. Zakki Fahmi" <m.zakki.fahmi@fst.unair.ac.id>

Wed, Oct 2, 2019 at 4:53 PM

Dear Dr. M. Zakki Fahmi,

Thank you for submitting the manuscript, "esign of Catechin-based Carbon Nanodots as Facile Staining Agents of Tumor Cells" to Indonesian Journal of Chemistry. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Manuscript URL: <https://jurnal.ugm.ac.id/ijc/author/submission/50327>

Username: mfahmi

If you have any questions, do not hesitate to contact me. Thank you for considering this journal for publishing your valuable work.

Best regards,
Prof. Dr.rer.nat. Nuryono, MS
Indonesian Journal of Chemistry

Indonesian Journal of Chemistry
<https://jurnal.ugm.ac.id/ijc>
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[IJC] Editor Decision: Major Revision

5 messages

Dwi Siswanta <dsiswanta@ugm.ac.id>

Thu, Oct 24, 2019 at 7:46 AM

To: "Dr. M. Zakki Fahmi" <m.zakki.fahmi@fst.unair.ac.id>

Dear Dr. M. Zakki Fahmi,

We have reached a decision regarding your submission to Indonesian Journal of Chemistry, "Design of Catechin-based Carbon Nanodots as Facile Staining Agents of Tumor Cells".

Our decision is: Resubmit

Comments of the reviewers can be seen in the bottom part of this email.

The revised paper has to be completed with the responses for the reviewer's comments, point by point, in table form at the beginning of the page of the revised paper. It is also required to highlight the revised parts with a different color of letters.

The revised paper has to be resubmitted in the system within three weeks.

Thank you for your intending to contribute to the journal and for giving us to read your work.

Best regards,

Dwi Siswanta
Laboratory of Analytical Chemistry,
Department of Chemistry,
Universitas Gadjah Mada
Phone +628157951198
Fax +62545188
dsiswanta@ugm.ac.id

Reviewer A:

Additional Comment::

The authors develop catechin-based carbon nanodots as facile staining agents of tumor cells. This manuscript is only based on the preparation of carbon nanodots from natural resources such catechin (*Uncaria gambir*). The testing as staining agents is to evaluate the potentials of resulting carbon nanodots for its application. The abstract shall explain the quality of as-synthesized carbon nanodots compared to the reported ones (such as size, emission properties, and toxicity). It is also required to show the degree of following properties; dispersible and water-soluble, good colloidal stability, excellent biocompatibility, favourable hydrophilicity, high photostability, and non- toxicity. Natural resources have been used to prepare this nanodots as mentioned by the authors in references 17 and 18. Moreover, for the application of carbon nanodots in cancer treatment, it have been reported in references 32-34. Moreover, the title with the term of "design" is not reflected in the manuscript. Hence, such simple novelty is not good enough to be accepted in this journal. Although the authors have performed many analysis including Raman, AFM and NMR, i think this manuscript shall be resubmitted after the authors can provide clear novelty of this research and more significant finding.

They are many technical issues to be addressed in this manuscript as follows:

1. In experimental section;
 - sodium chloride shall be NaCl instead of NaCL.
 - Remove the use of "we" for explanation of the procedure
 - synthesis of carbon nanodots shall include the reference. The heating rate to achieve 250 C shall be included
 - in characterization, what is the function of the NMR to be used without any explanation.

2. In results and discussion;
- single spot at such Rf can not be used to 100% guarantee for pure compound. Mass spectrum from QTOF mass spectrometer or another mass spectrometer including with elemental analyzer shall be provided.
 - the H-NMR spectrum shall include the integration of the proton number. The resolution of the figure shall be increased including to be the type of the solvent.
 - the resolution of C-NMR is not good. The concentration of the sample shall be increased
 - instead of AFM, TEM shall be provided to confirm the nanosize. Many papers in this field used TEM for the confirmation of the size
 - the quality of diffractogram from XRD measurement is not good where no peak can be observed. Crystalline structure of the desired material cannot be prepared well.
 - figure caption for Fig10 shall be provided in detail for (i) until (ix)
 - the zeta potential as mentioned in experimental section using a Malvern Mastersizer 2000 shall be provided.

Reviewer B:

Additional Comment::

The authors described an interesting and comprehensive research work related to the application of catechin-based carbon nanodots for tumor cells.

- 1) "Uncaria gambir" should be presented in Italic
- 2) The authors made unnecessary replications of the advantages of carbon nanodots.

" Carbon nanodots derived from natural products have received great reputation due to photostability, good biocompatibility, optoelectrical properties, their additional luminescence, and non-toxic behaviour and then specific hydrophobic sites that permit simultaneously to improve diagnostics and therapy"

"...derived carbon dots (CDs/CNDs) since they have a large number of advantages including being renewable, sustainable, and good biocompatibility"

"CNDs also have benefits of better surface grafting, stable photoluminescence, good solubility, low toxicity, and thus making them promising materials"

The authors should make the introduction part simple but attracting the readers without any annoying repetition.

- 3) The cytotoxicity assessment should be carried out in a standard and valid biological method according to the International regulations
- 4) The authors claimed that catechin was obtained in high purity due to a single spot of TLC. The purity of the compound should be checked by LC-MS compared to the standard compound. By using the standard addition method, the authors could calculate the isolation percentage of catechin.
- 5) The coupling constant of 4.56, 2.53, 2.98 and 6.76 should be added. Furthermore, I do not feel that the correlation figures (Fig 1 and 2) are more important than the ¹H- and ¹³C-NMR spectra of catechin, thus the ¹H-and ¹³C-NMR spectra should be presented as Fig 1 and 2, while the correlation structure should be moved as supplementary materials.
- 6) Please check the FTIR wavenumber of C-H asymmetric stretching vibration (28710 cm⁻¹)
- 7) I could not find Fig 8(f) and Fig 9(f) and also Fig S1 (a), (b), (c) and (d) stand for which one?
- 8) Technical comments:
"NaCL" should be replaced with "NaCl" and the IUPAC name of WST-8 reagent should be in a single word. "n" of the n-hexane should be in italic.
"Normality" should be converted to the "Molarity" unit. "-1" of L-1 should be presented as superscript. "2" of CO₂ should be presented as a subscript.
"-1" of cm⁻¹ should be presented as superscript. "3" of sp³ should be presented as superscript.

Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>
To: kwee khan lawng <s.khanlawng@gmail.com>

Thu, Oct 24, 2019 at 11:00 AM

Fix the reviewer comment

Best Regards,

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



[Quoted text hidden]

S.khan lawng <s.khanlawng@gmail.com>
To: Pak Zakki <m.zakki.fahmi@fst.unair.ac.id>

Thu, Oct 24, 2019 at 11:26 AM

Thank you, Bapak.

[Quoted text hidden]

Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>
To: "S.khan lawng" <s.khanlawng@gmail.com>

Thu, Oct 24, 2019 at 11:38 AM

that is your paper after I made some modifications

Best Regards,

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



[Quoted text hidden]

 **Manuscript.docx**
6525K

S.khan lawng <s.khanlawng@gmail.com>
To: Mochamad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>

Thu, Oct 24, 2019 at 11:41 AM

Thank you, Bapak!
Shall we meet today, Bapak please?

Sent from my iPhone

[Quoted text hidden]

<Manuscript.docx>

Re: [IJC] Design of Catechin-based Carbon Nanodots as Facile Staining Agents of Tumor Cells

1 message

Dwi Siswanta <dsiswanta@ugm.ac.id>

Thu, Jan 2, 2020 at 9:04 AM

To: "Dr. M. Zakki Fahmi" <m.zakki.fahmi@fst.unair.ac.id>

Dear **Dr. M. Zakki Fahmi**;

Regarding your revised article, we have sent comments from reviewers. So our position awaits your response to the comments of reviewers in round 2. (see attachment).

Regards

Dr. Dwi Siswanta

On Mon, Dec 30, 2019 at 8:27 AM Dr. M. Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id> wrote:

Dear Editor,

I sent this email to know any progress for my manuscript (Manuscript ID 50327, entitled Design of Catechin-based Carbon Nanodots as Facile...)

The manuscript was under review 1 on 2019-10-24;and I responded the review on 2019-11-12. Please find the figure of submission for round 2 on the attached file. Thank you

Indonesian Journal of Chemistry

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Mochamad Zakki Fahmi.png
76K

[IJC] Editor Decision

1 message

Dwi Siswanta <dsiswanta@ugm.ac.id>

Fri, Jan 3, 2020 at 9:35 PM

To: "Dr. M. Zakki Fahmi" <m.zakki.fahmi@fst.unair.ac.id>

Dear Dr. M. Zakki Fahmi:

We have reached a decision regarding your submission to Indonesian Journal of Chemistry, "Design of Catechin-based Carbon Nanodots as Facile Staining Agents of Tumor Cells".

Our decision is to: Accept Submission

In accordance to the Journal policy, you are required to immediately pay the publication fee of Rp 2,500,000 (USD 200) by transfer to the following bank account:

Name of the account : UGM FPA KIM - Penerimaan IJC

Swift Code : BNINIDJAXXX

Account No : 9888811052040792

Name of the Bank and address:

PT. BANK NEGARA INDONESIA (PERSERO) TBK

Address:

BNI UGM Branch, Sekip Utara Yogyakarta

55281, Indonesia

Please send the proof of remittance by email to the editorial office of the Indonesian Journal of Chemistry (email: ijc@ugm.ac.id).

After payment, in a few days, you will receive an email for the further process, i.e. copy-editing, lay-outing, and proofreading.

Thank you for your valuable contribution to the journal.

Best regards,

Dwi Siswanta
Laboratory of Analytical Chemistry,
Department of Chemistry,
Universitas Gadjah Mada
Phone +628157951198
Fax +62545188
dsiswanta@ugm.ac.id

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[IJC] Editor Decision

1 message

Dwi Siswanta <dsiswanta@ugm.ac.id>

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After payment, in a few days, you will receive an email for the further process, i.e. copy-editing, lay-outing, and proofreading.

Thank you for your valuable contribution to the journal.

Best regards,

Dwi Siswanta
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