



Rika Taslim <rikataslim@gmail.com>

Reviewer Invitation for REVISED VERSION JELECHEM-D-21-02310R1

1 message

Electroanalytical Chemistry <em@editorialmanager.com>
Reply-To: Electroanalytical Chemistry <support@elsevier.com>
To: "R. Taslim" <rikataslim@gmail.com>

Sun, Mar 13, 2022 at 8:50 PM

Ref: JELECHEM-D-21-02310R1
Title: Enhancing the electrochemical performance of biomass activated carbon through confining acid red 18 into the nanopores
Authors: Yong Chen; Jiandi Huang; Yannan Ma; Hui Xu
Type: Research paper

Dear R. Taslim,

We have received a copy of the REVISED VERSION of the above-referenced manuscript. I would be grateful if you could give me an opinion on its suitability for publication, as you very kindly reviewed the original version.

Our goal is to provide as rapid a response as possible to our authors. Therefore, please register your response as soon as your schedule allows. If you accept this invitation, your comments will be due by Apr 03, 2022.

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Please also note that authors have been invited to convert their supplementary material into a Data in Brief article (a data description article). You may notice this change alongside the revised manuscript. You do not need to review this but may need to look at the files in order to confirm that any supporting information you requested is present there.

Please also note that authors have been invited to convert methods-related supplementary material into a MethodsX article (a detailed description of their methods). You may notice this change alongside the revised manuscript. You do not need to review this but may need to look at the files in order to confirm that any supporting information you requested is present there.

I look forward to hearing from you.

As a reviewer you are entitled to complimentary access to references, abstracts, and full-text articles on ScienceDirect and Scopus for 30 days. Full details on how to claim your access via Reviewer Hub (reviewerhub.elsevier.com) will be provided upon your acceptance of this invitation to review.

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Yours sincerely,

Roberto Manuel M. Torresi, PhD
Editor
Journal of Electroanalytical Chemistry

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Original Referee Reports:

Reviewer 1: (Previous Version)

The authors have prepared porous activated carbon materials (CPPS-X, X denotes the ratios of KOH and CPPS) from cephalanopos (CPPS) by the KOH activation method and studied the electrochemical performance by the incorporation of acid red 18 (AR18) in the nanopores. The CPPS-2 showed the best surface textural properties. The rate performance and coulombic efficiency of AR18 incorporated material, CPPS-2-18, are higher than the porous carbon without AR18 (CPPS-2), demonstrating that the redox reaction in the nanopores of the CPPS-2-18 is more reversible than that on the surface of CPPS-2. Furthermore, the assembled symmetric supercapacitor device of CPPS-2-18 achieved a maximum energy density of 23 Wh/kg and power density of 6000W/kg with good cycle stability. This is an interesting work and would be of interest to the general readers of the related field. Therefore, I recommend acceptance after careful revision. Would you please mention the optimal sample's specific surface area and pore volume in the abstract?

Would you please give details of the electrode preparation? For example, what was the amount of CPPS-2 used to incorporate AR18? Also, details of the symmetric supercapacitor device practice should supply.

If possible, please include HR-TEM images of CPPS-2 and CPPS-2-18 samples.

I see some minor peaks in the XRD patterns of both samples. Are they coming from the impurities?

The adsorption isotherms correspond to type-IV, NOT type-VI.

CPP-2 sample does not contain nitrogen. Therefore, the peak assignment for the C=N bond is not correct.

Please explain why the energy density of device 2 is higher than device 3.

Please correct the typo errors.

Reviewer 2: (Previous Version)

in general, this paper shows efforts to improve the performance of supercapacitors through the addition of a redox mechanism on carbon electrodes and electrolytes, but for the perfection of this manuscript we propose the following points:

- a. In the introductory section, please explain the reasons for choosing AR18 as an agent to produce pseudocapacitance in supercapacitor cells.
- b. In the experimental section, it is stated that the synthesis of electrodes carried out is CPPS, CPPS-0,5, CPPS-1, CPPS-2, CPPS3 and CPPS-4, preferably before displaying image 1, you should first display SEM and XRD images of each type of electrode. .
- c. Regarding table 1, it is recommended that the absorption and desorption data are displayed and analyzed and placed before Table 1.
- d. Figure 1, rearranged after knowing the best conditions of the samples CPPS, CPPS-0.5, CPPS-1, CPPS-2, CPPS3 and CPPS-4.
- e. Regarding table 2, it is recommended that the adsorption-desorption Vs p/po data are also displayed and analyzed, After these improvements have been made, this paper may be accepted for publication (Minor Revision). Thank you.

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Rika Taslim <rikataslim@gmail.com>

JELECHEM-D-21-02310R1: Review Completed

1 message

Roberto Manuel M. Torresi <em@editorialmanager.com>
Reply-To: "Roberto Manuel M. Torresi" <rtorresi@iq.usp.br>
To: "R. Taslim" <rikataslim@gmail.com>

Mon, Apr 4, 2022 at 9:26 PM

Ms. No.: JELECHEM-D-21-02310R1

Title: Enhancing the electrochemical performance of biomass activated carbon through confining acid red 18 into the nanopores

Corresponding Author: Dr. Yong Chen

All Authors: Yong Chen; Jiandi Huang; Yannan Ma; Hui Xu

Dear Dr. Taslim,

This is to confirm that we have received your review for the manuscript referenced above. At a time when pressure on referees is increasing, the editors of the Journal of Electroanalytical Chemistry particularly appreciate your helpful contribution to the peer review process.

Should you wish to access your review comments, please log onto the Editorial Manager at:

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With kind regards,

Roberto Manuel M. Torresi, PhD
Editor
Journal of Electroanalytical Chemistry

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