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Erman Taer <erman.taer@lecturer.unri.ac.id>

ER-22-24161 successfully submitted

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2 Maret 2022 pukul 10.14

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01-Mar-2022

Dear Prof. Taer,

Your manuscript entitled ER-22-24161 "Synthesis free-template highly micro-mesoporous carbon nanosheet as electrode materials for boosting supercapacitor performances" has been successfully submitted online and is presently being considered for publication in International Journal of Energy Research.

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Erman Taer <erman.taer@lecturer.unri.ac.id>

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Once again, thank you for submitting your manuscript to International Journal of Energy Research and I look forward to receiving your revision.

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With my best wishes,

Prof. Ibrahim Dincer
Editor-in-Chief
International Journal of Energy Research

Reviewer(s)' Comments to Author:

Reviewer: 1

Comments to the Author
In this work, this work proposes a more effective, green, efficient, and controlled approach to obtain bio-waste-based porous carbon 2D nanosheet with a controlled pore structure for high performance supercapacitor electrode materials. The characterization and discussion for the materials is not enough. There is no information about how about the structure after electrochemical measurements. On the whole, the discussion is not very clear and the writing is not very serious. The further major revision is needed to make this work publishable.
There are some concerns for the authors to consideration,
(1) The paper report “Carbonization was performed from room temperature to 600°C with a gradual increase rate of 1°C/min and 3°C/min in an N2 gas environment.” How/why do you define the optimal pyrolysis temperature at 600 °C? It will be better if you provide TGA data.
(2) Why does the density of 0.75 M sample increase?
(3) The XRD peaks of the 4-carbon nanosheet samples have different intensity, widths and numbers. Please explain each peak in detail.
(4) Please provide Raman spectra and the value of ID/IG for the 4-carbon nanosheet samples.
(5) XPS tests are necessary to account for the coordination environment of heteroatoms (eg. N, O).
(6) Please specify the source of the capacitors and the contribution of each capacitor.
(7) Please provide the cycling stability.
(8) To established durability of your material, you should mention material characterization data like HRTEM/FE SEM/XPS after the electrochemical experiment (post characterisation data).
(9) There are some formal errors in the manuscript. Please correct them. For example, the format is not uniform in SI section; there are many misquotes of figures in the article: “table 1” should be “table 2”, “Figure 5a to d” should be “Figure 7a to d”, “Figure 7” should be “Figure 9” and so on. Please check your manuscript carefully.
(10) The authors need to check more carbon nanosheets based papers for better overview of this field.

Reviewer: 2

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The paper by Erman Taer et al reporting on the Synthesis free-template highly micro-mesoporous carbon nanosheets as electrode materials for boosting supercapacitor performances needs a major revision due to the following points:
1) For electrochemical measurements 3 -electrode measurements should be report as well not that of the device alone
2) The masses used should be quoted per unit area for both 2 and 3 electrode measurements so that it will be clear to the readers that masses used are not too small and hence specific capacitances and specific energy are over estimated.
3) The specific capacitance from CV should be represented by the integral because the CV curves reported here are not that rectangular to the extend that one can say the current is constant.
4)The scan rates for CV curves should be increased up at least 100 mV/s
5) The specific current as a function of specific current should be plotted and rate capability discussed.
6) It is not mentioned if the device is symmetric or asymmetric and this needs to be clarified.
7) Looking at the Fig. 9 it is not really convincing that the discharge time for the best sample is 320 sec which will lead to specific capacitance of 320 F/g because specific current is 1 A/g and cell potential is 1 V. Another point that needs to be clarified is whether if this was symmetric device the reported specific capacitance that of the device or of single electrode in the device. This due to the fact that even the equations for calculation of specific energy and power are not given. The report energy is not convincing given the cell potential of 1 V and also that the discharge time doesn't appear to be 320 sec which it appears to be roughly 198 sec which will lead to the energy of 27 Wh/kg if it is considered as the specific capacitance of the device for the best sample.
8) For stability of the device minimum of 10 000 cycles should be reported. Also the voltage holding as another form of stability should be reported.
9) EIS measurements are very important and hence needs to be reported and properly discussed for both 2 and 3 electrode measurements. For the device the data should be fitted with the appropriate circuit diagram and discussed.
10) The Bode plot should also be reported and discussed.

Reviewer: 3 (EiC)

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- Omit trivial information.
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