Gmail **Rika Taslim <rikataslim@gmail.com>**

Reviewer Invitation for MATPR-D-22-08013

1 message

Amun Amri <em@editorialmanager.com> Mon, Dec 19, 2022 at 1:16 PM
Reply-To: Amun Amri <amun.amri@eng.unri.ac.id>
To: "R. Taslim" <rikataslim@gmail.com>

Ms. Ref. No.: MATPR-D-22-08013
Title: Conversion of Hazelnut Seed Shell Biomass Into Porous Activated Carbon with KOH and CO2 Activation for Supercapacitors
Materials Today: Proceedings

Dear Dr R. Taslim,

Given your expertise in this area, I would appreciate your comments on the above paper. I have included the abstract of the manuscript below to provide you with an overview.

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I look forward to hearing from you in the near future.

Yours sincerely,

Amun Amri
Guest Editor
Materials Today: Proceedings

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ABSTRACT:
Utilization of waste biomass into an economical high-performance energy storage device has become the focus of research in the fields of science and technology. The high cost of production and the low storage capacity of supercapacitors are one of the obstacles in the development of supercapacitors. In this study, supercapacitor electrodes were synthesized from hazelnut seed shell (HSS) biomass as a renewable carbon source with optimization of CO2 activation. The process of making this supercapacitor cell electrode through a pre-carbonization process, chemical activation of 0.3 M KOH, carbonization flowed N2 gas at a temperature of 600°C, and physical activation is flowed CO2 gas with temperature variations of 700°C, 800°C, and 900°C. Microstructure analysis shows that the HSS-800 carbon electrode is semicrystalline with the lowest Lc value of 9.339 nm. The HSS-800 carbon electrode also has good conductivity and wettability characteristics caused by the electrode containing the O-H, C-H, C=O, and C=C functional groups. Electrochemical properties were analyzed used cyclic voltammetry and galvanostatic charge discharge which showed that the largest specific capacitance value was produced by the HSS-800 sample with specific capacitance values of 166.42 F g-1 and 137.6 F g-1, respectively. Based on these results, activation of CO2 at a temperature of 800°C produces porous carbon with the best performance which has the potential to be used as carbon electrodes for supercapacitor cell applications.

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Gmail **Rika Taslim <rikataslim@gmail.com>**

Thank you for the review of MATPR-D-22-08013

1 message

Amun Amri <em@editorialmanager.com> Wed, Dec 21, 2022 at 3:28 PM
Reply-To: Amun Amri <amun.amri@eng.unri.ac.id>
To: Rika Taslim <rikataslim@gmail.com>

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Ms. Ref. No.: MATPR-D-22-08013
Title: Conversion of Hazelnut Seed Shell Biomass Into Porous Activated Carbon with KOH and CO2 Activation for Supercapacitors
Materials Today: Proceedings

Dear Dr. Rika Taslim,

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Thank you again for sharing your time and expertise.

Yours sincerely,

Amun Amri
Guest Editor
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RIKA TASLIM

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