



Rika Taslim <rikataslim@gmail.com>

Invitation to review for Applied Surface Science Advances

1 message

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To: Rika Taslim <rikataslim@gmail.com>

Tue, Oct 11, 2022 at 11:27 AM



Manuscript Number: APSADV-D-22-00276
Bio-templated carbon with high electrical conductivity for energy storage device
Saranya Saranya; D. Lakshmi; M. Infanta Diana; P. Adlin Helen; K. Ajith; T. Kirithika; christopher selvin

Dear Taslim,

I would like to invite you to review the above referenced manuscript submitted by Dr christopher selvin, as I believe it falls within your expertise and interest. The abstract for this manuscript is included below.

You should treat this invitation, the manuscript and your review as confidential. You must not share your review or information about the review process with anyone without the agreement of the editors and authors involved, even after publication. This also applies to other reviewers' "comments to author" which are shared with you on decision (and vice versa).

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Kind regards,

Srinivasan Manickam
Guest Editor
Applied Surface Science Advances

Abstract:

The choice of biomass for the production of biocarbon for energy applications is wide ranged. Without external templates, the ordered structure is the boon obtained from biomass. Parthenium-hysterophorus(Leaves), Parthenium(Flowers), Hybanthus, and Saccharum spontaneum plants have been used for the preparation of activated carbon by physical mode. The obtained granular powders have been heat treated at 600°C temperature which resulted in ultrafine black powders. The powders exhibit amorphous or characteristic X-Ray Diffraction (XRD) patterns of bio-carbon material whereas morphological analysis done by Field Emission Scanning Electron Microscopy (FESEM) is exceptionally good with definite 1D and 2D morphologies. Further, highly aligned powders with homogenous porous distribution are obtained in all the samples with various carbon compositions. Pore diameter of about ~ 1-20 nm is obtained from Brunauer-Emmett-Teller(BET) analysis and all the carbon samples falls to the mesoporous distribution and surface area have been calculated for all samples. The electrical conductivity using AC impedance analysis is estimated for all the carbon materials in the range of 10⁻⁴ Scm⁻¹. The prepared samples have been found to serve a good range of electrical conductivity with well-interconnected pores indicating the efficiency of these carbons as excellent electrodes for energy storage applications.

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Rika Taslim <rikataslim@gmail.com>

Thank you for reviewing for Applied Surface Science Advances

1 message

The Journal <em@editorialmanager.com>
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Thu, Oct 27, 2022 at 10:36 PM



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Saranya Saranya; D. Lakshmi; M. Infanta Diana; P. Adlin Helen; K. Ajith; T. Kirithika; christopher selvin

Dear Taslim,

Thank you for reviewing the above referenced manuscript. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

I hope that you will consider Applied Surface Science Advances as a potential journal for your own submissions in the future.

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Kind regards,

Srinivasan Manickam
Guest Editor
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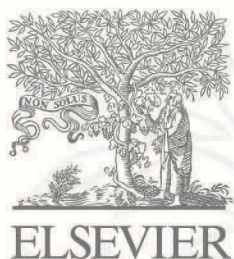
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Applied Surface Science Advances

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