Gmail

Rika Taslim <rikataslim@gmail.com>

Invitation to Review ER-22-25614 for International Journal of Energy Research

1 message

International Journal of Energy Research <onbehalfof@manuscriptcentral.com> Mon, Jun 6, 2022 at 5:52 PM

Reply-To: snizetic@fesb.hr
To: rikataslim@gmail.com

06-Jun-2022

Dear Dr. Taslim,

ER-22-25614 "Hierarchical-Nanofiber Structure of Biomass-Derived Carbon Framework with Ultrahigh Capacitance for Advanced Supercapacitor".

We recognise that the impact of the COVID-19 pandemic may affect your ability to return your review to us within the requested timeframe. If this is the case, please let us know.

I would be very grateful if you could spare the time to review this manuscript which has been submitted for publication in International Journal of Energy Research. If you can assist us, please let me know either by e-mail or by clicking the appropriate link at the bottom of the page. If you are unable to act on this occasion, I would appreciate any suggestions you may have for alternative reviewers. A copy of the abstract of the manuscript appears at the end of this letter, along with the names of the authors.

Please consider whether you have any conflict(s) of interest that may have an impact on the impartiality of your review. Please contact me or the Editorial Office prior to accepting this invitation if you'd like to discuss what constitutes a serious conflict.

Should you accept this invitation to act as a reviewer, you will receive an e-mail explaining how you can access Manuscript Central, our online manuscript submission and review system. As I am sure you will appreciate, we try to reach a decision on manuscripts within 3-4 weeks of submission and I would therefore be very grateful if you could complete your review within the next 2 weeks.

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Our expert reviewers play an essential role in maintaining the high standards of the Journal and I would like to thank you personally for your support.

With my best wishes,
Dr. Sandro Nizetic
International Journal of Energy Research

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MANUSCRIPT DETAILS

TITLE: Hierarchical-Nanofiber Structure of Biomass-Derived Carbon Framework with Ultrahigh Capacitance for Advanced Supercapacitor

AUTHORS: Farma, Rakhmawati; Indriani, Arum; Apriyani, Irma

ABSTRACT: Biomass-based activated carbon materials provide a new approach for the development of high-performance electrodes for supercapacitor cells. They are inexpensive and sustainable for the large-scale production

of electrode materials. Therefore, this study aims to produce carbon electrodes from date seeds with a hierarchical-nanofiber architecture activated using KOH and CO2. The results showed that the carbon electrode had a framework of interconnected pores in the presence of nanofibers and exhibited excellent electrochemical performance. The pore size distribution can be adjusted with the increased CO2 activation temperature. Furthermore, the hierarchical-nanofiber architecture contained a gradient distribution from nanopores to micropores which has optimal connectivity and increased the capacitance of the electrical bilayer as well as abundant oxygen on the surface or edges of the carbon matrix. The highest specific capacitance was obtained at 258 Fg−1 with a current density of 1 Ag−1 in a symmetrical two-electrode system. The symmetrical supercapacitor cell circuit had an energy density of 7.11 Wkg−1 with a power density of 125.46 Wkg−1 in an H2SO4 electrolyte. These results offer an efficient strategy for the preparation of high-performance carbon electrodes based on date seeds biomass.

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

Thank you for reviewing - ER-22-25614

1 message

International Journal of Energy Research <onbehalfof@manuscriptcentral.com> Thu, Jun 30, 2022 at 4:31 PM
Reply-To: EREdoffice@wiley.com
To: EREdoffice@wiley.com

Dear Reviewer,

ER-22-25614 "Hierarchical-Nanofiber Structure of Biomass-Derived Carbon Framework with Ultrahigh Capacitance for Advanced Supercapacitor".

I am writing to let you know that a decision has been reached on the manuscript which you kindly reviewed for us. The decision is Reject with Referral Thank you for your help.

With my best wishes,
Prof. Ibrahim Dincer, Editor-in-Chief
International Journal of Energy Research
Ibrahim.Dincer@uoit.ca