



Rika Taslim <rikataslim@gmail.com>

Reviewer Invitation for MATCHEMPHYS-D-23-01024

1 message

Materials Chemistry and Physics <em@editorialmanager.com>
Reply-To: Materials Chemistry and Physics <support@elsevier.com>
To: Rika Taslim <rikataslim@gmail.com>

Sat, Feb 25, 2023 at 3:01 AM

Ms. Ref. No.: MATCHEMPHYS-D-23-01024
Title: Enhanced performance of activated carbon-based supercapacitor derived from waste soybean oil with coffee ground additives
Materials Chemistry and Physics

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Jan-Hendrik Carroll-Pöhls, Ph.D.
Editor
Materials Chemistry and Physics

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ABSTRACT:

Waste edible oil is discarded in enormous amounts worldwide and pose serious threat to the environment. Revalorizing waste oil for electrochemical storage devices, such as supercapacitors, can be potentially useful in the race towards clean energy. The work presented in this paper focuses on the synthesis and fabrication of an electrochemical electrode using waste soybean oil and waste coffee ground to provide enhanced supercapacitive characteristics. We demonstrate a novel method of synthesizing activated carbon (AC) using soot collection, wherein two distinct approaches to mix coffee ground to waste soybean oil via ultrasonication and hydrothermal treatment have been presented. The two methods lead to very different and unique properties in terms of porosity and hybridization states of the materials. A twofold increase in the highest specific capacitance is observed for sample prepared using ultrasonication mixing of coffee ground. The performance of different supercapacitors depends on the carbon and nitrogen content, particle size, micropore volume, surface area and hybridization state of the AC. A capacitance retention of ~90% was observed after 1010 cycles showing good stability of the device. This work emphasizes on advancement of an economical, eco-friendly green technology that produces high-performance, electrochemical energy storage devices with good cyclability.

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Rika Taslim <rikataslim@gmail.com>

Thank you for the review of MATCHEMPHYS-D-23-01024

1 message

Jan-Hendrik Carroll-Pöhls <em@editorialmanager.com>
Reply-To: Jan-Hendrik Carroll-Pöhls <jan.pohls@unb.ca>
To: Rika Taslim <rikataslim@gmail.com>

Tue, Mar 14, 2023 at 2:26 PM

Ms. Ref. No.: MATCHEMPHYS-D-23-01024
Title: Enhanced performance of activated carbon-based supercapacitor derived from waste soybean oil with coffee ground additives
Materials Chemistry and Physics

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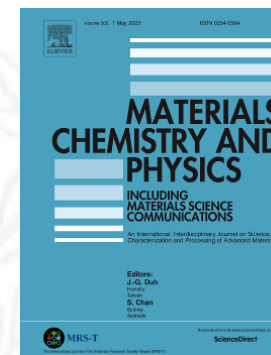
Jan-Hendrik Carroll-Pöhls, Ph.D.
Editor
Materials Chemistry and Physics

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RIKA TASLIM

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