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JELECHEM-D-22-01047: Request to Review

1 message

Roberto Manuel M. Torresi <em@editorialmanager.com>
Reply-To: "Roberto Manuel M. Torresi" <rtorresi@iq.usp.br>
To: "R. Taslim" <rikataslim@gmail.com>

Mon, Jun 6, 2022 at 12:26 PM

Ms. No.: JELECHEM-D-22-01047

Title: Enhancing the Electrochemical Performances of Beetroot Peel Waste Derived Activated Carbon-Based Supercapacitors using Redox Additive Electrolyte

Corresponding Author: Dr. Sathish Marappan

All Authors: Megala Moorthy; Karnan Manickavasakam; Suresh Balaji S; Gokulnath Subramaniam; Sathish Marappan

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Editor

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Journal of Electroanalytical Chemistry

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Abstract:

Supercapacitors are presumed to be an ideal device for electrochemical energy storage high power applications because they are an intermediate between conventional capacitors and batteries. Various bio-derived activated carbon was venerated for enhanced supercapacitor application and the electrochemical performance of carbon-based materials in aqueous electrolytes was further enhanced to a greater extent with the incorporation of redox additives. In this work, the activated carbon obtained from Beetroot is explored as the electrode material for supercapacitor with redox additives in electrolytes. The chemical functionalities and elements present in the prepared activated carbon were confirmed using FT-IR and XPS, respectively. The electrochemical energy storage behavior of the prepared activated carbon was analyzed with hydroquinone (HQ) as a redox additive. The specific capacity of the prepared electrode in 0.01 M HQ/H₂SO₄ at 3 A/g is 2589 C/g. The calculated power and energy density of the fabricated symmetric cell with HQ/H₂SO₄ at 3 A/g are 2356 W/kg and 36 Wh/kg which is superior to the mere 1M H₂SO₄ electrolyte with the gravimetric power and energy density of 1800 W/kg and 13.5 Wh/kg, respectively.

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Rika Taslim <rikataslim@gmail.com>

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2 messages

Roberto Manuel M. Torresi <em@editorialmanager.com>
Reply-To: "Roberto Manuel M. Torresi" <rortorresi@iq.usp.br>
To: "R. Taslim" <rikataslim@gmail.com>

Tue, Jun 28, 2022 at 6:41 AM

Ms. No.: JELECHEM-D-22-01047

Title: Enhancing the Electrochemical Performances of Beetroot Peel Waste Derived Activated Carbon-Based Supercapacitors using Redox Additive Electrolyte

Corresponding Author: Dr. Sathish Marappan

All Authors: Megala Moorthy; Karnan Manickavasakam; Suresh Balaji S; Gokulnath Subramaniam; Sathish Marappan

Dear Dr. Taslim,

This is to confirm that we have received your review for the manuscript referenced above. At a time when pressure on referees is increasing, the editors of the Journal of Electroanalytical Chemistry particularly appreciate your helpful contribution to the peer review process.

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Roberto Manuel M. Torresi, PhD
Editor
Journal of Electroanalytical Chemistry

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Rika Taslim <rikataslim@gmail.com>
To: reviews@publons.com

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