



Rika Taslim <rikataslim@gmail.com>

JELECHEM-D-21-02310: 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, Dec 20, 2021 at 6:53 PM

Ms. No.: JELECHEM-D-21-02310

Title: Enhancing the electrochemical performance of biomass activated carbon through confining acid red 18 into the nanopores

Corresponding Author: Dr. Yong Chen

All Authors: Yong Chen; Jiandi Huang; Yannan Ma; Hui Xu

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Roberto Manuel M. Torresi, PhD
Editor

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Journal of Electroanalytical Chemistry

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Abstract:

The limitation of low energy density of carbon-based supercapacitors can be broken through introducing redox mediators into the electrolyte. Herein, biomass porous carbon CPPS-2 with high specific surface areas was prepared by KOH activation. Capitalizing on the adsorption property of porous carbon, redox mediator, acid red 18 (AR18), was confined into the nanopores of CPPS-2 via electrosorption to fabricate the CPPS-2-18 electrode. After adsorbing 2.72mg AR18, in 1M H₂SO₄ the specific capacitance of CPPS-2-18 is 568F/g at a current density of 1 A/g, which is as same as that of CPPS-2 in 1M H₂SO₄ + 10mM AR18, however, the rate performance and coulombic efficiency of CPPS-2-18 are higher than those of CPPS-2. The results reveal that the redox reaction in nanopores of CPPS-2-18 is more reversible than that on the surface of CPPS-2. Meanwhile, the symmetric supercapacitor based on CPPS-2-18 achieved a maximum energy density of 23Wh/kg and power density of 6000W/kg. Besides, the self-discharging behavior of CPPS-2 was restrained by confining AR18 into the nanopores.

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Rika Taslim <rikataslim@gmail.com>

JELECHEM-D-21-02310: Review Completed

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, Jan 10, 2022 at 11:32 AM

Ms. No.: JELECHEM-D-21-02310

Title: Enhancing the electrochemical performance of biomass activated carbon through confining acid red 18 into the nanopores

Corresponding Author: Dr. Yong Chen

All Authors: Yong Chen; Jiandi Huang; Yannan Ma; Hui Xu

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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With kind regards,

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

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