



Rika Taslim <rikataslim@gmail.com>

Reviewer Invitation for RENE-D-22-02859

1 message

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Reply-To: Renewable Energy <support@elsevier.com>
To: Rika Taslim <rikataslim@gmail.com>

Thu, Jun 9, 2022 at 5:59 AM

Ms. Ref. No.: RENE-D-22-02859

Title: Fast-pyrolysis lignin-biochar as an excellent precursor for high-performance capacitors

Authors: Lingyan Zhu; Qifan Wang; Haotian Wang; Yuan Wu; Dongbing Li

Renewable Energy

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Veera Gnanaswar Gude, Ph.D.

Subject Editor

Renewable Energy

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ABSTRACT:

Lignin-based activated carbons (LAC) were produced using thermochemical pretreatment and chemical activation with KOH. Fast pyrolysis at 550 °C in a CO₂/N₂ atmosphere resulted in lignin char (LC) with a more developed porous structure than slow pyrolysis. The effect of activation conditions (KOH usage, temperature, and duration) on surface/physicochemical properties and electrochemical characteristics of the resulting LAC was fully studied. Using fast pyrolysis lignin char as a precursor and optimized activation conditions (w KOH : w LC = 2, 800 °C, and 2 h), the resulting LAC featured a large surface area of 2149.5 m² g⁻¹, a total pore volume of 0.88 m³ g⁻¹, and a high capacitance of 300 F g⁻¹ at 0.5 A g⁻¹ in a 6 mol L⁻¹ KOH electrolyte. The LAC-based symmetric supercapacitor could offer superior energy density (19.15 W h kg⁻¹ at 250 W kg⁻¹ power density) and stable lifetime (98.2% of original capacity after 10,000 charge-discharge cycles). The excellent capacitor performance of LAC was attributed to its microporous-mesoporous structure developed from fast pyrolysis and subsequent chemical activation.

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Rika Taslim <rikataslim@gmail.com>

Thank you for the review of RENE-D-22-02859

2 messages

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To: Rika Taslim <rikataslim@gmail.com>

Tue, Jun 28, 2022 at 7:26 AM

Ms. Ref. No.: RENE-D-22-02859
Title: Fast-pyrolysis lignin-biochar as an excellent precursor for high-performance capacitors
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Veera Ganeswar Gude, Ph.D.
Subject Editor
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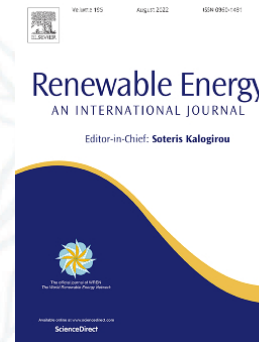
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