



Rika Taslim <rikataslim@gmail.com>

Invitation to review for Inorganic Chemistry Communications

1 message

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To: Rika Taslim <rikataslim@gmail.com>

Tue, Sep 27, 2022 at 11:50 AM

Manuscript Number: INOCHE-D-22-01649

A comparative study on electrochemical performance of KOH activated carbons derived from different biomass sources - Musa Acuminata stem, Pongamia pinnata seed oil extract cake, Cajanus Cajan stem and Asclepias syriaca floss

kathyayini Nagaraju; Gopalakrishna Byatarayappa; Radhika M G; Krishna Venkatesh; Nagaraju N

Dear Taslim,

I would like to invite you to review the above referenced manuscript submitted by Dr kathyayini Nagaraju , as I believe it falls within your expertise and interest. The abstract for this manuscript is included below.

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Kind regards,

Satyanarayana V Chilukuri, Ph.D

Editor

Inorganic Chemistry Communications

Abstract:

In the present scenario of research, the recycling of inexpensive widely available agricultural waste/biowaste to activate carbon (AC) and procurement of value-added product has significant impact on energy storage systems particularly in Electrochemical double layer capacitors (EDLCs). Herein, we report the production of KOH activated carbons from different biomass sources such as *Musa Acuminata* stem (MAC), *Pongamia pinnata* seed oil extract cake (PPC), *Cajanus Cajan* stem (CCC) and *Asclepias syriaca* floss (ASC) for the said purpose. Initially, the biomass materials were pyrolyzed at 550 °C and activated with KOH at 800 °C in N₂ atmosphere under previously optimized synthesis conditions. All the carbon materials were characterized for their physico-chemical properties by powder X-ray diffraction (P-XRD), Raman Spectroscopy, Brunauer, Emmett and Teller (BET) surface area analyzer and Scanning Electron Microscopy - Energy Dispersive Spectroscopy (SEM-EDS) techniques. Further, these materials were studied for their electrochemical performance using suitable electro-analytical techniques such as Cyclic voltammetry (CV), Chronopotentiometry (CP) and Electrochemical Impedance Spectroscopy (EIS) in 1M KOH solution. ACs derived from MAC, PPC, CCC & ASC were estimated in three electrode system and were found to exhibit a specific capacitance (Cs) of 358, 343, 355 & 540 F/g at a scan rate of 2 mV/s and 102, 188, 253 & 256 F/g at a current density of 2.5 A/g respectively. The energy densities with corresponding power densities of MAC, PPC, CCC & ASC was estimated as 40.9, 73.4, 37.6 & 139.5 Wh/kg and 1.8, 1.7, 1.2 & 2.0 kW/kg respectively in a three electrode system. The main novel objective of this work is to correlate the morphological and surface properties of these ACs obtained from different biomass sources with electrochemical performance.

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Rika Taslim <rikataslim@gmail.com>

Thank you for reviewing for Inorganic Chemistry Communications

2 messages

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Wed, Oct 5, 2022 at 10:01 PM

Manuscript Number: INOCHE-D-22-01649

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Satyanarayana V Chilukuri, Ph.D

Editor

Inorganic Chemistry Communications

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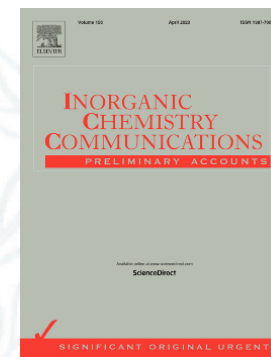
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Rika Taslim <rikataslim@gmail.com>
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Thu, Oct 27, 2022 at 11:12 PM

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Inorganic Chemistry Communications

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