



Rika Taslim <rikataslim@gmail.com>

Invitation to review INDCRO-D-22-04630R2

1 message

wim thielemans <em@editorialmanager.com>
Reply-To: wim thielemans <wim.thielemans@kuleuven.be>
To: Rika Taslim <rikataslim@gmail.com>

Sun, Nov 13, 2022 at 12:51 PM



Ms. Ref. No.: INDCRO-D-22-04630R2

Title: Ni₃S₂ nanoparticles encapsulated in S-doped biomass-derived hierarchically porous carbon as an advanced electrode for excellent hybrid supercapacitors performance
Industrial Crops & Products

Dear Dr. Rika Taslim,

On Nov 07, 2022, I sent you the abstract below, which was submitted to Industrial Crops & Products.

Would you please be so kind to send us your reply as soon as possible.

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If you accept this invitation, I would be very grateful if you would return your review by Nov 28, 2022.

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Thank you very much for your time and your assistance.

Yours sincerely,

Professor wim thielemans
Associate Editor
Industrial Crops & Products

ABSTRACT:

Although extensive efforts have been made to utilize raw biomass to synthesize porous carbon for the supercapacitor (SC), its large-scale application is difficult to achieve due to its slow diffusion kinetics and insufficient storage sites. Herein, biomass-derived high-capacity/high-rate cathode and anode materials are designed to realize high-performance SC. S-doped passionfruit peel-derived porous carbon (S-PFPC) is used as support to anchor nickel sulfide (Ni₃S₂) nanoparticles and is developed as cathode material. It provides sufficient sites to store discharge products, S-PFPC porous channels for fast electron transport, and uniformly dispersed Ni₃S₂ nanoparticles for enhance charge storage capacity. Simultaneously, hierarchically porous carbon with a high specific surface area as the anode material is also obtained by simple pyrolysis of passionfruit peel. Benefiting from the well-matched anode and cathode structures, the assembled Ni₃S₂@S-PFPC//PFPC hybrid supercapacitor (HSC) exhibits a high energy density of 118 W h kg⁻¹ at a power density of 433 W kg⁻¹. In addition, it exhibits long-life stability with excellent capacitance retention of 88.3% over 10000 cycles. The route for preparing biomass-derived electrode materials proposed in this work broadens the horizon to realize high-performance SC applications.

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Rika Taslim <rikataslim@gmail.com>

Thank you for the review of INDCRO-D-22-04630R2 - [EMID:c1444c924a5c2d08]

1 message

wim thielemans <em@editorialmanager.com>
Reply-To: wim thielemans <wim.thielemans@kuleuven.be>
To: Rika Taslim <rikataslim@gmail.com>

Mon, Dec 5, 2022 at 9:30 AM



Ms. Ref. No.: INDCRO-D-22-04630R2

Title: Ni3S2 nanoparticles encapsulated in S-doped biomass-derived hierarchically porous carbon as an advanced electrode for excellent hybrid supercapacitors performance
Industrial Crops & Products

Dear Dr. Rika Taslim,

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Thank you again for sharing your time and expertise.

Yours sincerely,

wim thielemans, PhD
Associate Editor
Industrial Crops & Products

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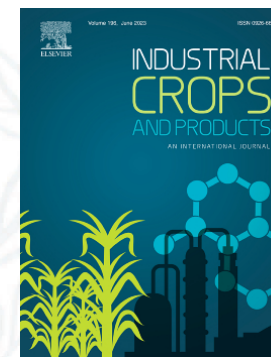
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RIKA TASLIM

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