



Rika Taslim <rikataslim@gmail.com>

Journal of Porous Materials: Invitation from Dr Komarneni to review a manuscript

1 message

Journal of Porous Materials <do-not-reply@springernature.com>
To: rikataslim@gmail.com

Sun, Jul 17, 2022 at 2:01 AM

****The contents of this email are confidential.****

Ref: Submission ID 95eb299e-63cd-49bb-9169-ddfd3767186a

Dear Dr Taslim,

I'd like to invite you to review a manuscript for Journal of Porous Materials. You'll find the details appended underneath this email.

Please accept or decline the manuscript using the link below.

Kind regards,

Sridhar Komarneni
Editor
Journal of Porous Materials

To accept or decline the manuscript, please use this link:

<https://reviewer-feedback.nature.com/review-invitation/a0a8b7e1-0ec6-4754-aa30-4b806ae42e03>

If you wish to contact us about the manuscript, please email Subbulakshmi.Raman@springernature.com.

Submission details

Authors:

Yanlei Zhang, Zhaoyang Zhao, Zhishu Tang

Title:

"Waste apple pruning branches as a sustainable resource to prepare porous activated carbon with multiple energy storage functions"

Abstract:

In this paper, porous activated carbon is successfully prepared from waste apple pruning branches (PGZ), which composed mostly of micropores and certain numbers of mesopores and macropores. It demonstrates an ultra-high specific capacity of 505 F g⁻¹ at a current density of 1 A g⁻¹ with excellent rate performance (215 F g⁻¹ at 50 A g⁻¹). The assembled supercapacitor also exhibits excellent specific capacitance of 320 F g⁻¹ (at 0.5 A g⁻¹) and 160 F g⁻¹ (at 20 F g⁻¹), with a high energy density of 12.03 Wh kg⁻¹ at a power density of 250.45 W kg⁻¹ in 6M KOH. In 1M Na₂SO₄ and 1M Et₄NBF₄/AC electrolytes, high energy densities of 18.8 Wh kg⁻¹ and 44.1 Wh kg⁻¹ could be achieved. It also exhibits high reversible lithium storage capacity of 636.2 mAh g⁻¹ at 0.2 C and retains 390 mAh g⁻¹ after 1000 cycles. Even at 0.8 C, the storage capacity is still as high as 327 mAh g⁻¹, with 282 mAh g⁻¹ retained after 1000 cycles. These outstanding performances highlights the first example of using waste apple pruning branches as a sustainable source of raw materials for the preparation of high value-added porous carbon materials with multiple energy storage functions.

To accept or decline the manuscript, please use this link:

<https://reviewer-feedback.nature.com/review-invitation/a0a8b7e1-0ec6-4754-aa30-4b806ae42e03>

Reviewing for Journal of Porous Materials

Journal of Porous Materials is committed to providing a rapid and fair review process. So, if you decide to accept the manuscript, we would hope to receive your report at your earliest convenience.

The editorial board and publishing team of Journal of Porous Materials are not able to anticipate all potential competing interests, so we ask you to draw our attention to anything that might affect your review, and to decline submissions where it may be hard to remain objective.

If you would prefer us not to contact you in the future, please let us know by emailing Subbulakshmi.Raman@springernature.com.



Rika Taslim <rikataslim@gmail.com>

Journal of Porous Materials: Thank you for your review on Waste apple pruning branches as a sustainable resource to prepare porous activated carbon with multiple energy storage functions

1 message

Journal of Porous Materials <Subbulakshmi.Raman@springernature.com>
To: rikataslim@gmail.com

Tue, Aug 2, 2022 at 8:27 PM

Ref: "Waste apple pruning branches as a sustainable resource to prepare porous activated carbon with multiple energy storage functions"

Dear Dr Rika Taslim,

Thank you for submitting your report to Journal of Porous Materials. We greatly value the time and effort you put into reviewing the manuscript.

We've attached a copy of the report for your reference. You can also use this email to verify your review activity with third party websites, such as Publons.

Thanks again for your review; we'll email you the decision on the manuscript as soon as it is made. Meanwhile, we hope that we can continue to benefit from your expertise in the future.

Kind regards,

Editorial Assistant
Journal of Porous Materials

**Your review report for Journal of Porous Materials.pdf**

66K