Gmail **Rika Taslim <rikataslim@gmail.com>**

Invitation to review for Diamond & Related Materials

1 message

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Manuscript Number: DIAMOND-D-22-01300

Nitrogen Self-Doped Porous Lamellar Carbon with Superior Electrochemical Performance

Lifen Tong; Ting Wang; Yaqi Chen; Liang He; Mei Bi; Xiaobo Liu

Dear Taslim,

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

You should treat this invitation, the manuscript and your review as confidential. You must not share your review or information about the review process with anyone without the agreement of the editors and authors involved, even after publication. This also applies to other reviewers' "comments to author" which are shared with you on decision (and vice versa).

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Kind regards,

Ken Haenen

Editor-in-Chief

Diamond & Related Materials

Abstract:

A novel nitrogen self-doped porous lamellar carbon materials were prepared by pyrolysis method, in which metal-free phthalocyanine used as a carbon source, and nanosized SiO 2 and SWCNTs used as templates at the same time. The mesoporous structure is contributed by the nanosized SiO 2 self-sacrificing template, and the microporous structure is produced by pyrolysis of Pc/SWCNTs. By adjusting the ratio between SWCNTs, nanosized SiO 2 , and phthalocyanine polymers, the microscopic morphology and the electrochemical performance of porous carbon materials can be regulated. Benefit from its superior pore structure and large specific surface area, the nitrogen self-doped porous lamellar carbon materials show excellent electrochemical performance. When the mass ratio of the three was Pc/SWCNTs/SiO 2 =1:0.05:0.5, the nitrogen self-doped porous lamellar carbon material shows the largest specific capacity of 283.9 F/g at 1 A/g as a supercapacitor anode material. And after
5000 cycles, the composite material still maintained a specific capacity of 88.7%, demonstrating excellent stability. The specific capacity under the two-electrode system of Sample 3 is 260.36 F/g, showing high energy density and power density (7.8 Wh/kg, 2500 W/kg). Therefore, this nitrogen self-doped porous lamellar carbon material has potential value as a supercapacitor anode material.

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Gmail **Rika Taslim <rikataslim@gmail.com>**

Thank you for reviewing for Diamond & Related Materials

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Manuscript Number: DIAMOND-D-22-01300

Nitrogen Self-Doped Porous Lamellar Carbon with Superior Electrochemical Performance

Lifen Tong; Ting Wang; Yaqi Chen; Liang He; Mei Bi; Xiaobo Liu

Dear Dr. Taslim,

Thank you for reviewing the above referenced manuscript. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

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Kind regards,

Ken Haenen

Editor-in-Chief

Diamond & Related Materials

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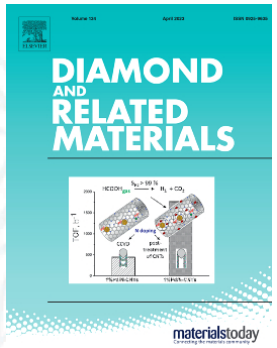

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