

Accepted Manuscript

Title: Optically Transparent and High Dielectric Constant Reduced Graphene Oxide (RGO)-PDMS based Flexible Composite for Wearable and Flexible Sensors

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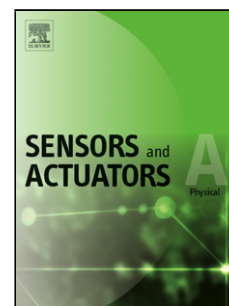
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Response letter

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Dear Editor,

We thank the reviewers for their careful review of our manuscript, positive comments and suggestions for improvements. Accordingly, we have made modifications to the manuscript to accommodate all referee's suggestions; we have also learned many things in this process. We hope that our response given below is persuasive towards a recommendation for publication of the attached revised manuscript.

REFeree REPORT(S):

Reviewer 2

- This manuscript deals with an optically transparent RGO-PDMS composite with moderate loading of RGO that also shows high dielectric constant and thus could be useful for capacitive sensors. Composite preparation and characterization are discussed in detail. The manuscript has interesting results and could be published after addressing the following comments.

1. Is there any data on gas exposure and resulting change in capacitance ? What type of sensors and gases are envisioned ?

Response : Thanks for these suggestions. However, we have only developed an optically transparent and high dielectric constant flexible composite material for capacitive based force/touch sensors. Due to the transparent and flexibility in nature, this dielectric composite material can be utilized for several wearable sensors those we have planned in our next phase of development work. However, after your suggestions, we have also planned for development of gas exposure sensors if some functional groups are attached during fabrication of the composite materials. Thanks for these comments and we are very much interested to utilize your valuable suggestions for the next phase of our work.

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