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Dr. Jialan Zhang

Science Editor

*Jove*

2018-09-03

Dear Dr. Jialan Zhang:

I am pleased to submit an original research article entitled “Infrared Degenerate Four-Wave Mixing with Upconversion Detection for Quantitative Gas Sensing” by Rasmus Pedersen and Zhongshan Li for consideration for publication by Jove. We previously shown the advantages of combining upconversion and DFWM, and this manuscript aims to make the technique more approachable.

In this manuscript, we describe the procedure for aligning the degenerate four-wave mixing spectroscopy setup, as well as the procedure for setting up the upconversion detector for consistent, optimal detection.

We believe that this manuscript is appropriate for publication by Jove because it is focused on the practicalities of the technique, which matches the scope of Jove.

This manuscript has not been published and is not under consideration for publication elsewhere. We have no conflicts of interest to disclose. If you feel that the manuscript is appropriate for your journal, we suggest the following reviewers:

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Thank you for your consideration!

Sincerely,

Rasmus Pedersen

PhD student, Department of Physics

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