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Dr. Bing Wu, Review Editor
1 Alewife Center, Suite 200
Cambridge, MA 02140, USA

April 20, 2019

Dear Dr. Wu,

Please find enclosed the final version of our manuscript (Manuscript Number 59878), "Accurate Determination of the Equilibrium Surface Tension Values with Area Perturbation Tests," co-authored by Jaeyub Chung, Elias Franses, and myself for possible publication in the *Journal of Visualized Experiments*. We thank you for your time, careful reading, and helpful and detailed comments. Our point-by-point responses to the editorial comments are addressed below. We hope that you agree that the manuscript is suitable for publication in the *Journal of Visualized Experiments*. If you need any further information or have any specific comments, please do not hesitate to contact me for any reason. Thank you for your consideration.

Sincerely,

Bryan W. Boudouris
Weist Associate Professor of Chemical Engineering
Associate Professor of Chemistry (by Courtesy)
Purdue University

Editorial Comments

Comment 1

Representative Results and Discussions are different sections.

The revised manuscript has the Representative Results section (lines 305 to 332) placed separately from the Discussion section (lines 360 to 410).

Comment 2

In Representative results, please include at least one paragraph of text to explain the results in the context of the technique you have described, e.g., how do these results show the technique, suggestions about how to analyze the outcome, etc.

The revised Representative Results section (lines 305 to 332) has two paragraphs, one for each protocol.

Comment 3

In Discussions, please include 3-6 paragraphs covering the following in detail with citations:

a) Critical steps within the protocol

- b) Any modifications and troubleshooting of the technique*
- c) Any limitations of the technique*
- d) The significance with respect to existing methods*
- e) Any future applications of the technique*

In the Discussion section, we have now four paragraphs containing all the items requested.

- a) The critical steps of each protocol are now described in lines 369 to 392.
- b) Several troubleshooting guidelines have been described in the protocol section. Some additional troubleshooting guidelines are now in lines 376 to 385 and lines 390 to 394.
- c) We have added some limitations of the methods in lines 364 to 366.
- d) The “significance with respect to existing methods” is described further in lines 401 to 407.
- e) Future applications of the techniques are available in lines 407 to line 410.

Comment 4

Representative Results should follow the Protocol section and Discussions should follow Figure and Table Legends.

We have modified the sequence of several sections of the manuscript as requested.