**Letter to the editor,**

**Fabrication and testing of microfluidic optomechanical oscillators, Han et. al.**

Dr. Rachelle Baker

Associate Editor, Physical Sciences

Journal of Visualized Experiments

Dear Dr. Baker,

We are submitting our manuscript titled “Fabrication and testing of microfluidic optomechanical oscillators ” for review in the Journal of Visualized Experiments.

In this work we describe the fabrication process and testing methods of our novel microfluidic optomechanical oscillators. We are currently using these devices and experimental methods to enable light-driven mechanical vibrations that couple to fluid-phase materials. The optical forces we employ for these experiments are radiation pressure and electrostriction. This is the first optomechanical device that can successfully couple to fluids without suffering from excessive optical and mechanical dissipation effects, and as a result, has many applications in biochemical sensing.

This paper is not under consideration for publication in another journal. As per submission instructions, we have highlighted the steps that we feel are most important to film.

Name and email of 6 suggested reviewers:

Frank Vollmer, [vollmer@rowland.harvard.edu](mailto:vollmer@rowland.harvard.edu) (Harvard University)  
Jack Harris, [jack.harris@yale.edu](mailto:%20jack.harris@yale.edu) (Yale University)  
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Best regards,

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