



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">International Research Journal of Pure and Applied Chemistry</a>                    |
| Manuscript Number:       | 2013_IRJPAC_5898                                                                                |
| Title of the Manuscript: | Application of Newton's Zero Order Caustic for Analysis and Measurement: Part II – Fluorescence |
| Type of the Article      | Research Paper                                                                                  |

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

|                                            | Reviewer's comment                                                                                                                                                                                    | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b><u>Minor</u></b> REVISION comments      | From Fig. 1 one can see that the shape of the droplet and the support material of the droplet can affect the results. How to deal with these and to have a credible and high reproducibility results? | The reviewer makes an excellent point and reinforces the insight provided by ray tracing. While the main purpose of the paper is to explain the application of Newton's zero order caustic and not to promote measurements using droplets, the reviewers' comment is valuable and important to address. Because we show data that was taken with a digital camera and analysed using ImageJ, this potential problem was averted because the integrated density calculation was used around the area where the light is focused in the droplet. To help the reader understand how to replicate measurements using droplets, we added the following sentences: ". It is important to note that depending the concentration of surface active agents in the sample, the area used to calculate fluorescence using integrated density needs to be guided by the ray tracing shown in |



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|                                         |  | Figure 1. In general, as the concentration of surfactant increases, the area used to calculate fluorescence should be smaller and closer to the zone of highest light intensity in the droplet in order to have reproducible fluorescence measurements." |
| <b><u>Optional/General</u></b> comments |  |                                                                                                                                                                                                                                                          |