



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2014_IRJPAC_12197
Title of the Manuscript:	A Graphene Oxide Nanoprobe for Sensitive Fluorescent Telomerase Activity Analysis
Type of the Article	Original Research Article

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:

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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)
Compulsory REVISION comments	- Please refer in the existing literature which describe that the determination of a single layer carbon of GO of about 1.19 nm. In addition how to distinguish between GO layer versus regular graphene layer? - In Fig 3, Why the peak of fluorescence factor (f) has a significant difference when a telomerase concentration is measured in 50 cell compare to 10 cell? - Please clarify if incubation time does not influence the findings in Fig 2. For example, if a shorter incubation time is implemented, such as 5 h?	- H. Jang, Y.-K Kim, H.M. Kwon, W.S. Yeo, D.E. Kim, D.H. Min, Angew. Chem. 2010, 122, 5839 –5843. - The reason that peak of fluorescence factor (f) has significant difference between 50cells and 10cells should be the concentration of telomerase change 5 times, and that the f depends on the logarithm of telomerase concentration. - If incubation time is shorten, telomerase can not extend primer P2 sufficiently, thus influence the later hybridize with P1 probe, result in the changes of fluorescence are not obvious.
Minor REVISION comments	Add the Figure of XPS spectra in the Supplementary Information not only the corresponding peaks position as discussed in page 6.	The Figure of XPS spectra has been added in revise manuscript.
Optional/General comments		