



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_19768
Title of the Manuscript:	The Effects of Solvent and pH on the Electronic Spectral Properties of Indolino Spirobenzoxazine
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:

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



SDI Review Form 1.6

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)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	Indolino Spirobenzoxazine is a photoactive agent in chemical and biological chemistry. The paper used this compound as a probe to test the effects of solvent and pH on the electronic spectral property. The E_T and E_N^T were used as two parameters for solvent and pH effects. By linear relationship data fits, solvent property parameters of π, α, β were obtained which are very important for evaluation of the related solvents. In this case I supported it to be published in this journal after minor revision. 1. Solution pH controlling usually using pH buffer solution, in the paper, the author using 0.1M HCl and 0.1 M NaOH to adjust the solution pH, how to determined pH value in the range of 3-11. Author needs to describe the measurement in the experimental section. 2. The significant of the regression of equation (5) has some problem, three data points for two variables regression, so the $R=1$ is must be, and author need to give out the residue of a and b; 3. The data in table 4 and 5 are confused, some have 4 significant digital, some 3 and others 2 in the same tables.	Thank you for the commendation 1. pH probes were inserted to monitor the pH of the solution during the time of adjustment. I will include that. No buffers were used. Changes in pH were not expected in the course of the work. This statement has been included in the experimental section. 2. Residual is the variance between the experimental value and the value predicted by the model. Three solvents were used. Thus, for each peak, there are three absorption data according to the three solvents. The model predicts these absorption data and gave the residual. From the residual, we can tell how well the model is able to predict the absorption properties. Residual of zero is perfect prediction. 3. Noted. It has be adjusted to two d.p
<u>Optional/General</u> comments		