



Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_49764
Title of the Manuscript:	APPLICATION OF NON-LINEAR REGRESSION ANALYSIS FOR THE ADSORPTION KINETICS AND EQUILIBRIUM ISOTHERM FOR PHENACETIN
Type of the Article	Original Research Article

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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	<ol style="list-style-type: none"> 1. Title should include activated carbon 2. Authors must cite the isotherm and kinetics models to the work of original authors who clearly deserve the merit. Please find and cite them correctly. This issue is repeatedly addressed in the work for Prof Ho Yuh-Shan. 3. The introduction is too unbalance. There are little about the attractive features of adsorption, and why is activated carbon chosen, and is there any existing study about phenacetin adsorption. Is there any existing study that report phenacetin in river , water bodies or sea? 4. section 2,1 Line 110. Quote" in proportion ½:½)" Mathematically, it should be corrected to "1:1" 5. Section 1. how exactly is the biomass processed before converted into the activated carbons? Please include the details start of the collection of the biomass, how it was processed. Or they are added raw/fresh without any processing? 6. Figure 1. include magnification in the figure's caption 7. section 2.2. Please state at what wavelength is the phenacetin analysed. 8. Section 2.2. when author mention filtration. How exactly did author filter the mixture? Filter paper? If so please state the brand and grade. 9. Section 2.3 The symbols need to subscripted properly and consistent with those in the equations. Authors only need to define the symbol Q_e, Q_t, C_e, Q_m ,etc once. Avoid repeating the same thing for the next equation. 10. Section 2.3 The isotherm and kinetics equations need to be numbered. Why only the error functions equation are numbered? 11. Why is the effect of pH not optimised for the adsorption process? 12. Section 2.3 Spelling error Line 192 – Redlisch 13. General rules of using abbreviation. Abbreviations that are defined in the abstract will need to be defined again at first use in the main text. Terms that are already defined should not be redefined again otherwise it is a duplication of effort. Please recheck your whole manuscript. 14. Incorrect numbering of headers in section 3. 15. Line 315. Spelling error. 16. Table 1 description is not placed at correct section. 17. What is residual plot in Figures 6-9 ? what is residual (mg/g)? What useful information are we getting from it? How did you get the number? Is it how close the $q_{e,cal}$ is to the experimental q_e? 18. Table 2. spelling error: redelich 19. Line 418: adosrbate 20. Following the rules of biology, "cucurbitaceae" need to be italicised and the first letter need to be Capitalised. 	
Minor REVISION comments		
Optional/General comments		

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