



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2014_IRJPAC_12083
Title of the Manuscript:	Biosorption of copper from aqueous solutions by raw and activated spines of Bombax buonopozense: Equilibrium, kinetics and thermodynamic studies
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.

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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	- On line 22, the references [1] [2] should be written as [1,2]. - On line 58, $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ should be $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$, zero was typed instead of letter O in CuSO_4. - Lines 99 to 103 need correction because E and ϵ are not the same. - The comma in line 172 should be removed. - On line 181, Cu should be replaced with Cu(II) because it is not Cu atom that is removed from solution but Cu(II). - On line 184, H_3O^+ should be typed H_3O^+. - On line 186, the comma should be removed. - On line 190, studying at $\text{pH} > 7$ causes precipitation of the metal ions. - On line 199, [15][16] should be [15, 16]. - On line 200, [17] [18] should be [17, 18]. - On lines 213 and 214, the commas should be removed.	



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	12. On line 227, [24] [25] should be [24, 25]. 13. The comma on line 228 should be removed. 14. On line 229, Cd and Cu should be Cd(II) and Cu(II) because it ions that are in solution rather than atoms. 15. On line 231, the scale on vertical axis is wrong and has to be changed to the range 65 to 100. The horizontal axis should also be changed to range 20 to 80. Doing this will make the plot more informative rather than the linear shape in Figure 5. A similar correction should be carried out on Figure 2. 16. On line 233, the word metal should be replaced by ions. Similarly, it should be corrected for other Figures as well as other parts of the manuscript. 17. On lines 89, 237 and 244, Freundlich constant is written differently (K_f, K_F, KF). Which one do you want to use? 18. On line 243, [27] [28], should be [27, 28]. 19. On line 251, Q_m is not defined. Is it same as Q_{max}? 20. The value for K under raw written as $7 \times 10^{-}$ should be corrected. 21. On line 258, Q_{max} and K_L should be written properly as Q_{max} and K_L. 22. On line 264, the word Table should be changed to Tables because they are two. On line 268, the names of the Authors should be written before the references 31 and	
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	32just as it is done for reference 33. 23. On line 272, K1 and qe are wrongly written. Firstly, rate constants in kinetics are denoted with small letter k (e.g. k_1, k_2). Therefore, for a first-order or pseudo-first-order reaction, the rate constant is k_1. Secondly, qe should be written as q_e. 24. On line 274, the Table legend should be changed to 'Pseudo-first-order kinetic parameters for the sorption of copper ions by spines of <i>Bombax buonopozense</i>'. This is because it is not only the rate constant that is presented in the Table. 25. On line 277, the Table legend should be changed to 'Pseudo-second-order kinetic parameters for the sorption of copper ions by spines of <i>Bombax buonopozense</i>'. This is because it is not only the rate constant that is presented in the Table. 26. On line 297, the Table legend should be written as 'Thermodynamic parameters for the sorption of copper ions by spines of <i>Bombax buonopozense</i>'.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		

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