



SDI Review Form 1.6

Journal Name:	American Chemical Science Journal
Manuscript Number:	2014_ACSj_14425
Title of the Manuscript:	Adsorption Isotherm Studies of Cd(II) and Pb(II) ions from Aqueous Solutions by Bamboo-Based Activated Charcoal and Bamboo Dust.
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>)



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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	- Line 6 and 7: mention "BBAC" and "BD" after introducing the adsorbents in abstract - Mention the model of furnace, pH meter and shaker - Line 107: cite the company of salts, Cd (NO₃)₂ and PbCl₂ - You should completely introduce these parameters at the end of 'materials and methods': C_e, C₀ and q_e - You should mention this equation: $q_e = \frac{C_0 - C_e}{m} \times V$ - Line 110 and 111: why you select this mass (1.0 g) and pH (6) for doing your experiments? - Line 125: what is "distribution coefficients"? - Adding the labels of x and y-axis of figures 3 and 4, and the name of curves - Line 200: mention the unit of K_L - Calculate the Langmuir Isotherm Constants in table 3, there are differences between values in table and figure - Check x and y axis of figures 9 and 10, plot of q_e vs ln C_e - Check x and y axis of figures 11 and 12, plot of q_e vs [RT ln(1+1/C_e)]² - Check again q_{max} values in abstract and conclusion	BBAC and BD had been included in line 7. The models of the equipment had been included. The parameters C_e, C₀, q_e had been explained at the end of the materials and methods. The equation for evaluation of the sorption capacity, q_e (mg/g) had been included. The Langmuir constants had been recalculated.



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	• Adding SEM, FTIR or other methods to study the surface morphology and active sites on adsorbents	FT-IR study had been performed and included in this work.
<u>Minor</u> REVISION comments	• Lines 143-159: please mention reference • Compare your results with those have reported in the publications	Comparison of our study with other adsorbents that have been presented in the chemical literature had been done.
<u>Optional/General</u> comments	• Mention some references in 2013 and 2014	