



SDI Review Form 1.6

Journal Name:	Chemical Science International Journal
Manuscript Number:	Ms_CSIJ_52104
Title of the Manuscript:	COMPARATIVE STUDY OF THE ADSORPTION OF LEAD, Pb AND CADMIUM, Cd BY ACTIVATED CARBON FROM JATROPHA CACUS AND MORINGA HUSK
Type of the Article	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	<p>1) There is lot of grammatical mistakes in the manuscript. Please take time to properly read the manuscript. For example "Heavy metals are without doubt as the most hazardeous and harmful metals even if they present as traces, since they accumulate in the tissue of living organisms". "Hazardeous" should be "hazardous", "they present" must be "they are present" and "they accumulate" should be "they are accumulated". In the whole manuscript "in to" must be "into". Put full stop at the end of sentences.</p> <p>2) Why authors chose activated carbon? The importance of this method must be stated.</p> <p>3) Is it really 20 g of activated carbon in 100 ml used for adsorption equilibrium study?</p> <p>4) Why Moisture (%) and Ash (%) equations are not numbered?</p> <p>5) Please give reference for the method used to calculate activated carbon surface area.</p> <p>6) Where are Adsorption capacity and % adsorption values of pb and cd for activated carbon from Jatropha Cacus?</p> <p>7) Table 2 is not understandable regarding the unity. Please explain.</p> <p>8) According to figure 4 there is no adsorption after 10 min. Please check.</p> <p>9) Figure 5 and 6 which value x axis indicate? Same observations in figure 9.</p> <p>10) Please show in the manuscript Langmuir and Freundlich equations used with details.</p> <p>11) No punctuation in discussion part. Why?</p> <p>12) "At higher concentration, the methylene blue molecules absorbed some of the incident radiation which will decrease the amount of available light photons that will drive the photocalytic process". Did authors worked on photocatalysis or adsorption? Please clarify this point.</p> <p>13) Authors claim that "this signified that equilibrium is reached at 60 minute in which is the maximum required time for the removal the lead, pb and the cadmium, cd.". What is the meaning of this in scientific point of view?</p> <p>14) Generally, analytic characterization discussion come before batch adsorption discussion.</p> <p>15) The following sentence is too long and no mean: "Each peak in the FTIR spectrum were assigned to respective functional group observed at 3934.9 – 3009.0 cm⁻¹, 2654.14 – 2407.2 cm⁻¹, 1620.2 cm⁻¹, and 1396.5 cm⁻¹ (Figure 4), while, 3942.63 – 222.07 cm⁻¹, 1558.54 – 1411.94 cm⁻¹ and 1049.31 cm⁻¹ (Figure 5) which can be assigned to alcohol, aldehyde, alkene and phenol respectively for the pure Moringa husks, while Alcohol, aldehyde, phenol and nitro-compound respectively for the activated Moringa husks."</p> <p>16) This experimental data fit well both Langmuir and Freundlich isotherms. Authors should give the clear explanation.</p> <p>17) There is no information about activated carbons surface area but authors did some experyments on it. Why?</p> <p>18) Also no discussion on particle size distribution and physicochemical properties of jatropha cacus and moringa husk activated carbon.</p> <p>19) Font should be uniform in the whole manuscript.</p> <p>20) What is the main contribution of this work? It must be stated in the conclusion.</p>	The manuscript has been thoroughly modified
Minor REVISION comments		



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Optional/General comments		
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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	