



SDI Review Form 1.6

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_37635
Title of the Manuscript:	Accumulation of Heavy Metals in Soil and Maize Plant (Zeamay) in the Vicinity of Two Government Approved Dumpsites in Benin City, Nigeria
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	Not Applicable	
Minor REVISION comments	<p>Topic: Zeamay should be written as <i>Zea mays</i> (not as one word)</p> <p>Abstract is 'wordy' and has repetitions. For instance: Line 10 – 11 could be written as "The soil samples were assessed for some physico-chemical properties using standard methods. Note: heavy metal concentrations are included in chemical properties of the soil. Line 12, 13 to 14 could be written as "Maize plants found growing in the dumpsite and control areas were also sampled, partitioned into leaves, stems, and roots prior to analysis in the laboratory for heavy metals determination using atomic absorption spectrophotometer (AAS)" Line 14: The last statement by the author(s) prior to this line talked about analysis of maize plant, thus, it is assumed that results in line 14 – 16 belong to it, but from the tables, they are not. So, Author(s) should mention that the results are for soil samples and not maize. Line 15: Between goes with 'and'; please correct Line 18: Author(s) should maintain consistency in tenses (past or present continuous) Line 21: Expunge the listed metals Line 23: Expunge 'in' and 'concentrations'; then replace 'that' with 'those' Line 24-25 could be written as "Significant differences of heavy metals accumulations were observed per plant parts, roots having the highest concentrations." Line 31-33: The assertion by the author(s) needs reference(s) Line 34-36: This claim with figures must have reference(s). Please provide. Line 37 -40 need reference. Line 40: Removing 'the' could improve the statement. Line 48: space is needed between '<i>et al</i>' and '2011' Line 55-56 must be referenced Line 69: Write as <i>Zea mays</i> Line 80: write as '(Ighodaro <i>et al.</i>, 2015). Line 80-81 Re-write as 'Ikhueni and Oluku dumpsites comprise household...' Line 82-83: Re-write as 'They also consists of scavengers that are involved...' Line 97-98: How many samples were obtained to make the composite and at what distances? Please indicate. Line 98-100: Please expunge total heavy metal experiment. Note: Physico-chemical analysis has sufficed. Line 110: Re-write as '<i>Anegbe et al.</i> (2017)' i.e. without a comma. Correct all. Line 111-112: Owing to your procedural description in line 102-104 concerning drying, pulverizing and weighing, it would be necessary that you give abridged steps you used for digestion for metals determination, since you have quoted the method used. Line 114: Equipment description should follow the order- name, make and country. Also, reagents used should be mentioned and should follow the same naming pattern as above. Line 178: Table 4 is not necessary. Merge it with Table 3. Put unit in bracket beside element e.g. Zn (mg/kg) or since they are of the same unit, indicate the unit in the Table's caption. For instance, 'Mean Concentrations of Heavy Metals (mg/kg) in the Two Dumpsites and Their Control Sites Compared with DPR Standard' Moreover, you have to re-discuss this area to effect the changes in Tables. Line 230: Expunge Table 6 and include the values in discussion. Do same for line 247, Table 7.</p>	<p>It has been attended to</p> <p>It has been attended to</p> <p>It has been attended to</p> <p>It has been restructured</p> <p>It has been restructured Past tense has been used They have been expunged It has been attended to</p> <p>It has been attended to</p> <p>It has been referenced It has been referenced It has been referenced It has been attended to It has been attended to</p> <p>It has been attended to It has been attended to It has been attended to It has been attended to It has been attended to</p> <p>It has been expunged</p> <p>They have been corrected It has been attended to</p> <p>It has been attended to</p> <p>It has been attended to</p> <p>They have been attended to</p>



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	<p>Line 258: Table 8 is bulky. Put 'units' in table's caption as suggested above. Put control values (in bracket) beside the dumpsite values, then, indicate below the table that the values in bracket are for control. Eg for Root; Zn: 62.30(17.64). Do same for Table 9. Remember to re-discuss after any adjustment. Line 296 and 309: Merge Table 10 and 11, putting control values in bracket. Line 332 and 342: Merge Table 12 and 12, putting control values in bracket.</p> <p>References References do not follow same pattern For instance line 388, name of journal should be in italics. Authors should abide by the journal's rule of referencing. Line 393: If the ref. is a book, please provide edition and page numbers Line 397,397... have the journals volume in bold. Check all these and follow same pattern for all. GENERAL CONSISTENCY IS REQUIRED.</p>	<p>It has been attended to</p> <p>They have been merged They have been merged</p> <p>They have been attended to</p>
<u>Optional/General</u> comments	<p>The article's 'quantity' needs to be reduced. Major revision needs to be done in order to implement all suggestions. Discussion of results should be more concise, without repeating values already presented in Tables. Repetitions need to be checked!</p>	<p>The article's quantity has been reduced, revised and re-discuss. Repetitions has been checked</p>