



**SDI Review Form 1.6**

Journal Name:	<a href="#">International Journal of Environment and Climate Change</a>
Manuscript Number:	Ms_IJECC_51103
Title of the Manuscript:	Phytoremediation of industrial waste leachates by planted filters of Phragmites australis (Cav) Trin ex Steud, Typha latifolia L. and Cyperus papyrus L.
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/sdi-general-editorial-policy>)



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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)
<b>Compulsory</b> REVISION comments	Comments are included in (pdf) file, you should correct and answer the questions why you did not do the statistical analyzes	<p>- Correction has been done in the manuscript.</p> <p>- This study was conducted in a company generating leachates that could pollute the environment. As environmental regulation becomes more and more strict in Congo, this company asked us (academics) to test phytoremediation as a method of treating leachates before they return to the natural environment. This study, which lasted 3 months, has therefore focused on reducing the polluting nature of wastewater that is released into the wild, especially since we do not have a plant analysis device in the Congo. Given the interesting results of this study, we (academics) have set up a thesis project on this theme. We are currently seeking funding and academic collaboration to equip ourselves with the appropriate equipment to carry out this study, especially as the Congo is full of many plants that could be used for phytoremediation. So you understand that for lack of material, we have not been able to perform statistics, so we could not achieve kinetics of extraction of pollutants or absorption isotherms by different parts of plants.</p> <p>- Although the focus of this study is solely on wastewater remediation, we agree that the comparison data alone are not sufficient to confirm the phytoextractor character of the plants. We therefore revised the conclusion by including the need to achieve absorption isotherms by the different plants and their kinetics of extraction of heavy metals to confirm the hyperaccumulator nature of the 3 plants chosen in this study.</p>
<b>Minor</b> REVISION comments	Author should add list of abbreviation at the first of the paper and in tables	<p>- This correction has been done.</p>
<b>Optional/General</b> comments	<p>Author should include theses references :</p> <ul style="list-style-type: none"> <li>Mohammed Mesnoua, Enrique Mateos-Naranjo, Jesús Alberto Pérez-Romero, José María Barcia-Piedras, Brahim Lotmani, Susana Redondo-Gómez: <i>Combined effect of Cr-toxicity and temperature rise on physiological and biochemical responses of Atriplex halimus L.</i> Plant Physiology and Biochemistry 08/2018; 132., DOI:10.1016/j.plaphy.2018.08.025</li> <li>Mohammed Mesnoua, Enrique Mateos-Naranjo, José María Barcia-Piedras, Jesús Alberto Pérez-Romero, Brahim Lotmani, Susana Redondo-Gómez: <i>Physiological and biochemical mechanisms preventing Cd-toxicity in the hyperaccumulator Atriplex halimus L.</i> Plant Physiology and Biochemistry 09/2016; 106:30-38., DOI:10.1016/j.plaphy.2016.04.041</li> <li>Stress abiotiques sur Atriplex halimus L : Effet des métaux lourds et caractérisation des biomarqueurs et bioindicateurs. Thèse, Mohammed MESNOUA (2016). Université Abdelhamid Ben Badis-Mostaganem.</li> </ul>	<p>- The first reference has been added in the manuscript</p>



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**PART 2:**

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