

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_101675
Title of the Manuscript:	Iron toxicity in plants: A Review
Type of the Article	Review 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:

(<https://www.journalijecc.com/index.php/IJECC/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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>For the most part, yes.</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>For the most part, yes</p> <p>Yes</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	
<p>Optional/General comments</p>	<p>Regarding "Iron toxicity can occur in different soils, including those with high pH, high levels of organic matter, or elevated levels of available iron [4]. These conditions"----- These specific conditions do not lead to elevated free Fe, so I suggest the authors provide examples of specific conditions, such as, low pH, low organic C, etc., that could lead to elevated free Fe</p> <p>Regarding "High levels of iron in the soil can also lead to the formation of toxic compounds, such as hydroxyl radicals"----- How so? Explain the mechanism(s)</p> <p>Regarding "the levels of ROS in the plant cells"----At first mention, spell out what ROS is and give examples</p> <p>Regarding "This results in an increased production of harmful oxygen radicals"-----How so? Explain the mechanism(s)</p> <p>Regarding "One approach is to modify the soil environment by adjusting the soil pH"---- Elevating the pH (lowering free H+), should, in theory, promote Fe+ binding to negative sites, thereby reducing free Fe+ and subsequently decreasing bioavailability.</p> <p>Regarding "DTPA can be added to the soil to solubilize excess iron"---Do you mean bind?</p> <p>Regarding "oxygen levels in the soil and increasing the concentration of iron ions in the soil" ----Explain the mechanism here. Increasing O- should promote development of FeO forms. Is FeO a highly mobile and/or bioavailable compound?</p>	

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	Regarding "by adjusting the pH and/or adding organic matter"----- The impact of raising or lowering the pH on Fe bioavailability is highly dependent on presence of existing biogeochemical conditions and compounds	
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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>	

Reviewer Details:

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