

The manuscript makes an important contribution to understanding the influence of changes by urbanization on plant diversity, which is a topic of great importance today, with a comprehensive characterization of the diversity index.

For the most part, the article clearly presents the importance, justification and the objectives of the study, with results well presented in its variety of statistical analyses. However, I draw attention to the following aspects: I suggest that the writing of the article should be revised at several points, especially in the introduction. I found many long sentences, which makes reading a bit exhausting. I suggest you have a colleague who is proficient in English and familiar with the subject to review your manuscript, or contact a professional editing service.

Remarks to Introduction

L46-50: I suggest to split the sentence in two

L53-56: Split the sentence in two

L59-60: increases towards the center of cities? it's not clear

L79-82: split the sentence in two, or I suggest to delete the sentence "Urbanization has somewhat reduced native plant species and increased exotic plant species" since this was already said in the introduction.

Remarks to Materials & Methods

L113-117: the writing is a little confusing, since it is a large sentence. I suggest splitting the sentence for clarity.

L124: correct punctuation at the end of the sentence.

L125-126: I feel like this sentence was incomplete... or was it a continuation of the previous sentence? I suggest delete this sentence, since you mentioned the analysis by life traits at the beginning of the next paragraph.

L133: "will be conducted"? Haven't these analyzes already been done?

L133-135: The sentence is not clear. I suggest rewriting.

L138: Isn't "importance" instead of "important" correct?

L140: I didn't understand what is the advantage index formula and how this index represented by "C" is used in the Importance value.

L146-147: Split the sentence in two.

L150: the sentence is confusing, I suggest delete the sentence "are used as indicators for measuring species diversity in sample plots"

L 165: correct the punctuation

L168 and 170: I don't understand, in L112 you said you analyzed two transects... did you mean the four "quadrants" formed by the method you choosed?

L 188: correct the punctuation or change the uppercase letter to lowercase in "The error..."

L 195-196: "Perform pairwise correlation testing on variables using Pearson correlation analysis." This sentence sounds incomplete.

L200-206: correct the punctuations

Remarks to Results and analyzes

L240: correct if you are using two or four transects along the text

L347: correct the punctuations. After semicolon we use lowercase letters. Correct all along the text

Remarks to Discussion

L 410: delete the space between parentheses and comma

L430-433: Rewrite the sentence for clarity

L435-439: This long sentence can be divided into up to 3 sentences, to improve reading and understanding

L470-473: Split the sentence in two

Figure 1: correct the uppercase letter after semicolon and delete the space between parentheses and the word "left"