

Review of: "Research on the uncertainty of low-carbon environmental governance system and its impact on the dual goals of carbon emission reduction"

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This manuscript does a very informative job and draws some valuable conclusions. The empirical analysis part of the paper is quite well researched. However, there are still several aspects that could be improved.

1. Do the four aspects—policy environment uncertainty, economic environment uncertainty, innovation environment uncertainty, and market environment uncertainty—have mutual influence relationship? It would be better to make some explanation.
2. In Part 1, the authors suggest that "this paper analyzes the green effect of environmental regulation based on the perspective of economic policy uncertainty, and tries to explain the generation and mechanism of the "green paradox". Compared with the research process of the paper, the overview is not accurate.
3. The description of the "linkage mechanism" in Figure 1 is too simple, and the relationship between low carbon policy environment, economic environment, technological innovation environment and carbon trading environment is not clearly reflected.
4. How was the judgment matrix of the improved hierarchical analysis method yielded? There should be a detailed description to improve the degree of credibility. The results of the fuzzy integrated evaluation should be shown.
5. The variables used in section 3.2.1 of this paper need to be described more precisely, and there are different ways of defining the calculation methods for some variables.
6. In this paper, the empirical analysis is carried out directly without representing and analyzing the trend of explanatory and explained variables, which makes it difficult for the readers to grasp the accuracy of the empirical analysis results clearly.
7. The interpretation of the empirical results in the fourth part of the empirical analysis should refer to some valuable literature instead of subjective analysis throughout the text.
8. The conclusion and recommendation section should be combined with the results of the empirical analysis of this paper.

