Title: How Do Outdoor Spatial Characteristics of Chinese Traditional Villages Influence Microclimate? A Systematic Review of Out-door Microclimate Design Studies

Comments:

This manuscript addresses a research topic of considerable practical significance and scholarly value—namely, the study of outdoor microclimates in traditional Chinese villages and their climate adaptation wisdom. The topic is well-aligned with global concerns surrounding climate change and rural sustainability. Moreover, it fills a notable gap in existing reviews, which predominantly focus on urban contexts while overlooking the distinctive characteristics of rural and traditional village environments. As such, the manuscript has the potential to inform microclimate-sensitive design, rural policy development, and public health strategies. However, several aspects require revision and further elaboration before the manuscript can be considered for publication:

1.The abstract should clearly specify the main methodological approach adopted in this study, along with key information about the data sources or sample size involved. This will help readers quickly grasp the scope and rigor of the review.

2.In the Introduction, the discussion of existing research gaps needs to be strengthened. For instance, after stating that reviews focusing on rural spaces—especially traditional villages—are relatively scarce, the manuscript should provide a more concrete assessment of what "relatively scarce" entails. Additionally, relevant existing reviews or seminal works on rural or traditional village microclimates should be cited, and their limitations critically analyzed. This will enable the authors to more precisely position the specific gap that this study aims to fill.

3.In the Introduction, the manuscript should more explicitly highlight the theoretical framework's unique value and complexity when applied in rural contexts. A deeper reflection on how theoretical constructs function differently in rural versus urban microclimate studies would enhance the manuscript's conceptual rigor.

4.in the methods, while the manuscript employs the PRISMA 2020 methodology for literature analysis, it is necessary to justify the choice of this method. The authors should explain why PRISMA was selected over others and clarify its comparative advantages in this research context.

5.in section 2.3, the rationale for the final inclusion of 43 full-text articles should be further elaborated. For a systematic review, this number may appear insufficient. The authors are encouraged to discuss whether this sample size is adequate and representative, and how it might impact the robustness of the conclusions.

6.Similarly, due to the limited number of included studies, the validity of the results presented in the Results section are open to question.

7.The Discussion should include a more in-depth analysis of the fundamental differences between urban and rural microclimates, particularly in terms of nature, scale, and driving factors. Moreover, the manuscript should elaborate on how the theoretical framework employed addresses the shortcomings of urban-centric models and better accommodates the specificities of rural microclimate issues.

8.The manuscript requires a careful proofreading to ensure formatting consistency and language clarity throughout.