

Review of: "[Review Article] Green Strategies for the Synthesis of Quinolone Derivatives"

Chao Shu¹

¹ Central China Normal University

Potential competing interests: No potential competing interests to declare.

Indeed, quinolone is a pharmacophore, an interesting heterocyclic ring system in medicinal chemistry. In this article, Akter and Ahmed introduced the structure of quinolone and the different bio-activities of quinolone derivatives, then overviewed the majority of its green approaches. Overall, it is a good piece of work on quinolone chemistry, and the advantages of this review will assist in the further improvement of present studies on green chemistry. The manuscript is clearly written and well organized. However, there are still some concerns that the authors should address, and suggestions from other reviews on the website before publication:

1. The full manuscript was strongly suggested to be polished because of grammar and language errors, sentences were not properly written, and references should be well cited.
2. All the schemes should be redrawn! Some of the schemes and figures were directly copied from the original sources. All schemes should be drawn in a suitable style.
3. It would be better to display the possible reaction yields and mechanisms of different synthetic methods for better understanding by readers.
4. The authors should give a perspective on this field at the end of this review, such as future challenges and development directions.
5. There are some similar reports on this topic; the authors should discuss the difference between this review and the reported works, for example: <https://www.tandfonline.com/doi/full/10.1080/17518253.2022.2064194>, <https://www.sciencedirect.com/science/article/pii/S0022286023016551?via%3Dihub>, and so on.