

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

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**Potential competing interests:** No potential competing interests to declare.

In this manuscript entitled "**Green Strategies for the Synthesis of Quinolone Derivatives**", the authors have summarized the recent advancements in green chemistry methods for establishing quinolone scaffolds from various scientific journals, online databases, and libraries, which will help scientists to develop non-toxic and eco-friendly techniques for the synthesis and development of novel drugs. It is suggested to specify the title of the work in terms of a more specified issue and further organize and provide in-depth analysis. I am providing some **major remarks** that need to be addressed. The specific comments are as follows:

1. Title has error. The title of this paper does not correspond to the publication in its current form. The "green" word is missing in the presented process.
2. The whole structure can be improved. As other researchers are more concerned with your ideas and innovation, the expression of your method can be the first sight. Authors should discuss the novelty of their work.
3. The quality of writing should be largely improved.
4. I would suggest the authors to use recent and representative studies for referencing. They can use the following related studies in this regard based on the green synthesis used for varied applications:-Journal of Energy Storage, 85 (2024) 111161.,-International Journal of Hydrogen Energy, 48 (2023) 37286-37301.
5. Based on "Sinha et al. have computationally designed a series of chloroquine and hydroxychloroquine analogs and evaluated them in contradiction of the viral spike protein of SARS-CoV-2 for their affinity in contrast to the macromolecular target and pharmacokinetic profiling by using molecular docking, dynamic simulation, and pharmacokinetic profiling.", the Finding section could be improved by paying attention to the following aspects. Like **electrochemical detection of hydroxychloroquine drugs**.- Journal of Colloid and Interface Science, 613 (2022) 1-14.
6. The preferred format for the "Conclusions" should include:
  - A summary of your key findings.
  - A highlight of your hypotheses, new concepts, and innovations.
  - Your vision for future work.