

Review of: "Effects of experimental CO₂ enrichment on the PSII photochemical efficiency of *Symbiodinium* sp. in *Acropora millepora*"

Masoud Nasiri¹

¹ Semnan University

Potential competing interests: No potential competing interests to declare.

Dear Sir/Madam

First, I would like to thank you for choosing me as a reviewer and apologize for my delay in replying. I investigated the paper entitled "*Effects of experimental CO₂ enrichment on the PSII photochemical efficiency of Symbiodinium sp. in Acropora millepora*" by Ashleigh McNie, Daniel Breen, Kay Vopel.

I should congratulate the authors of this article for doing scientific work that was certainly done under difficult circumstances. However, I have a few suggestions for improving this valuable research as follows:

- The results of this work are only experimental and have not been compared with the results of other published papers or data obtained from the software. I think the validity of the results of this research needs to be proven.
- Although kinetics and equilibrium of reactions is an important issue, the authors have not said anything about this in the text.
- Perhaps the PHREEQC software can help in evaluating the results.
- The reaction mechanism of CO₂ enrichment is obscure, and nothing has been said about it. I think adding this part can help to enrich the work.

Best Regards