



Exploring new catalysts for conversion of sustainable energy in μ -reactors
Study of mass-selected atoms, clusters, and nanoparticles

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Att. PhD Committee Resubmission of PhD Thesis

November 1, 2023

Dear Members of the PhD Committee: Søren Dahl, Fabio Dionigi, and Brian Seger.

I hope this letter finds you well. I am writing to resubmit my revised thesis, following the invaluable feedback that you provided.

In adherence to your recommendations:

- A discussion has been incorporated into subsection 4.2, where I have elaborated on the challenges faced in obtaining reproducible samples, thereby offering a clearer exploration of achieving consistent catalytic data in μ -reactors.
- The abstract has been revised to offer a broader perspective on the overall work, specifically shedding light on issues related to reproducibility and temperature.
- Clarifications regarding collaboration have been carefully addressed. Modifications have been made in the chapters to highlight my contributions, ensuring alignment with standard practices.
- A novel subsection 4.5 has been added, detailing the redesigning of the μ -reactor platform, and elaborating my contributions to the paper "Enabling real-time detection of photocatalytic reactions by a reusable microreactor."

I sincerely thank you for the time and effort dedicated to reviewing my work, and I look forward to any further suggestions or feedback you may have to enhance the quality and impact of my research.

Kind regards,

Alexander Leegaard Krabbe