

Exploring the Physical Dimensions of Fuel Cell Stack Degradation in Real Driving Conditions

Institut für Verbrennungskraftmaschinen
und Brennstoffzellen



Description

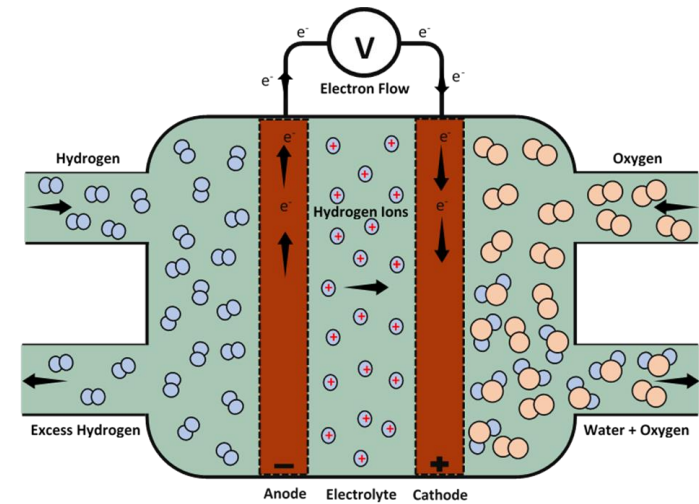
Fuel cells stand out as a highly promising technology for achieving emission-free future mobility. Despite their immense potential, certain aspects of fuel cells require further exploration to comprehend their behavior in dynamic operational scenarios. This thesis aims to delve into one such aspect—specifically, the degradation of fuel cell stacks during real driving cycles, focusing on its physical manifestations.

Your responsibilities

- Conduct literature research on fuel cell stack degradation.
- Classify all degradation mechanisms and elucidate their physical implications.
- Theoretically analyze the influence of actual driving cycles on fuel cell stack degradation.
- Document the findings

Prerequisites

- Ability to collaborate effectively within a multidisciplinary team.
- Proficiency in literature research.
- Strong knowledge of electrochemistry.
- Excellent command of English, both written and spoken.



Starting: As soon as possible

Contact

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| ☒ Bachelorarbeit | ☒ theoretisch |
| ☒ Studienarbeit | ☐ simulativ |
| ☒ Masterarbeit | ☐ experimentell |