

MASTER'S THESIS

Synthesis of a new catalyst for the reduction of CO_2 at ambient conditions

The goal will be the synthesis of a new type of alkaline earth metal hydride complex stabilised by a new chonky diazadiene (DAD) ligand. This [DAD]AeH complex will then be used to catalytically reduce CO_2 with various reducing agents.

Goals

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| - Ligand | Synthesis & Optimisation |
| - Complex | Synthesis, Characterisation, Stability testing |
| - Catalysis | Activity testing & Scale Up |

Our Offer

- A terrific project where you can input your own ideas
- **Title: Master of Science (Legendary)**
- **Skill: Handling of highly reactive materials (S-Rank)**
- Increased fire resistance
- A large lab space with modern equipment + electronic lab journal
- A relaxing work environment with motivated colleagues



Duration: 6 Months

Contact: dado.rodic@uni-graz.at

Feel free to contact us and arrange an appointment,
where we can discuss further details.
Department of Inorganic Chemistry - KFU Graz