



Education

- **Polytechnique Montreal, Montreal, QC, Canada** (2017-present)
Ph.D. Degree, Department of Chemical Engineering

- **King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia** (2016)
M.Sc. Degree, Department of Chemical Engineering
Thesis: "Enhanced Propylene Production by Catalytic Cracking of Hydrotreated VGO over Novel FCC Catalyst Additives"

- **University of Khartoum, Khartoum, Sudan** (2012)
B.Sc. Degree, Department of Chemical Engineering

Research Interests

- Hydrogen production and storage
- Solar reactors
- Clean fuels
- Waste treatment
- CO₂ capture and conversion
- Heterogeneous catalysis
- Biomass utilization
- Chemical reaction engineering
- Techno-economic studies

Work Experience

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|---|--------------------|-----------|
| • Center for Refining and Petrochemicals (CRP),
King Fahd University of Petroleum & Minerals
Dhahran, Saudi Arabia | Research Assistant | 2013-2016 |
| • Chemical Engineering Department,
King Fahd University of Petroleum & Minerals
Dhahran, Saudi Arabia | Research Assistant | 2013-2016 |
| • Khartoum Refinery Company,
Khartoum, Sudan | Trainee | 2012 |

Journal Publications

- **Abdelrahman Hussain, A. Aitani, M. Kubů, J. Čejka, S. Al-Khattaf.** "Catalytic cracking of VGO over novel zeolites as FCC catalyst additives for maximizing propylene yield". *Fuel* 167 (2016) 226-239

- **Abdelrahman Hussain, A. Palani, A. Aitani, M. Kubů, J. Čejka, M. Shamzhy, S. Al-Khattaf.** "Catalytic cracking of vacuum gasoil over -SVR, ITH, and MFI zeolites as FCC catalyst additives". *Fuel Processing Technology* 161 (2017) 23-32

Abdelrahman Hussain, MSc, PhD candidate

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- A. Usman, M. Siddiqui, **Abdelrahman Hussain**, A. Aitani S. Al-Khattaf. "Catalytic cracking of crude oil to light olefins and naphtha: Experimental and kinetic modeling". Chemical Engineering Research and Design 120 (2017) 121-137