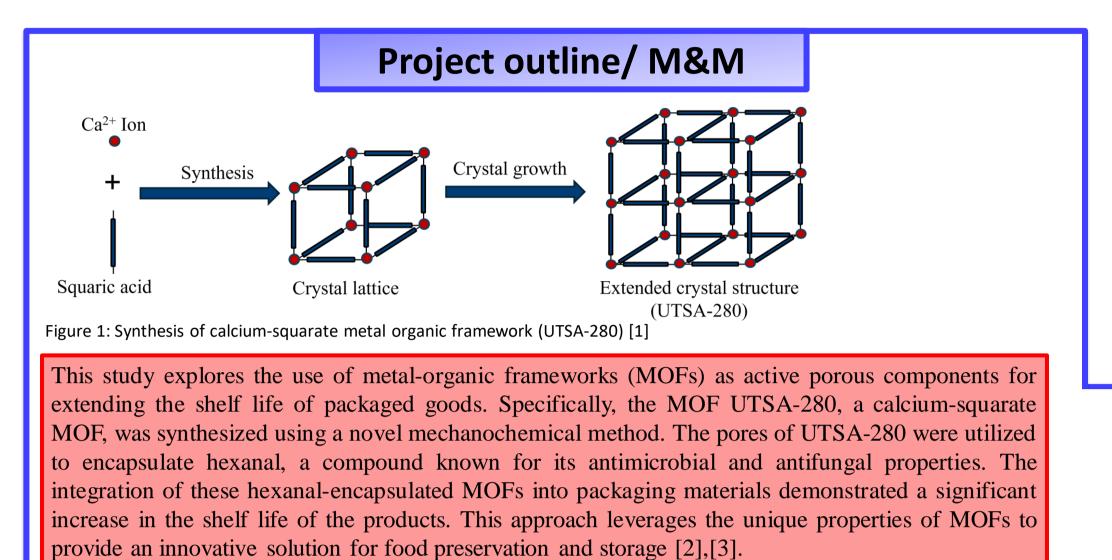
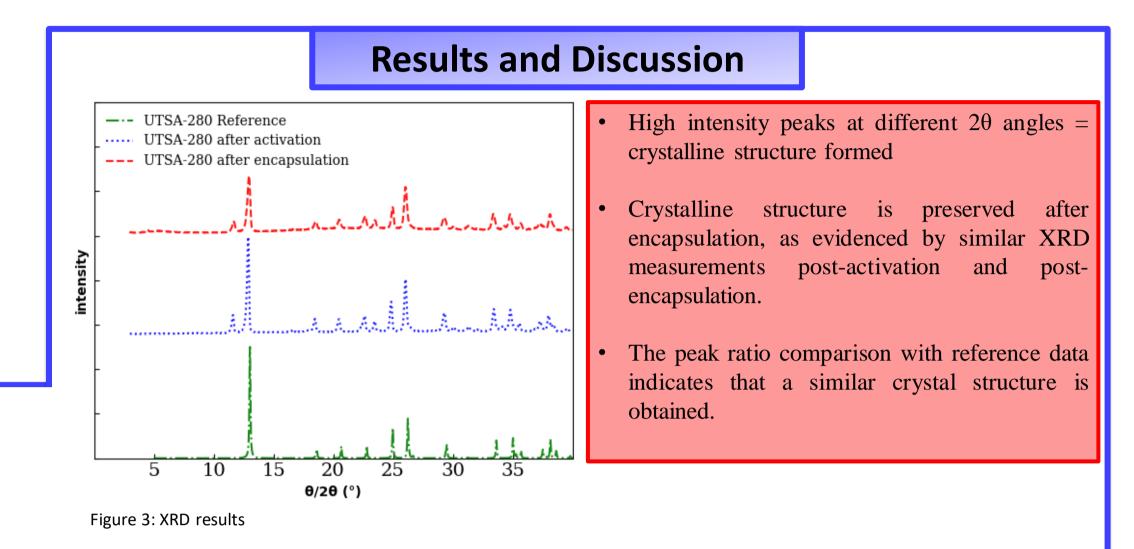
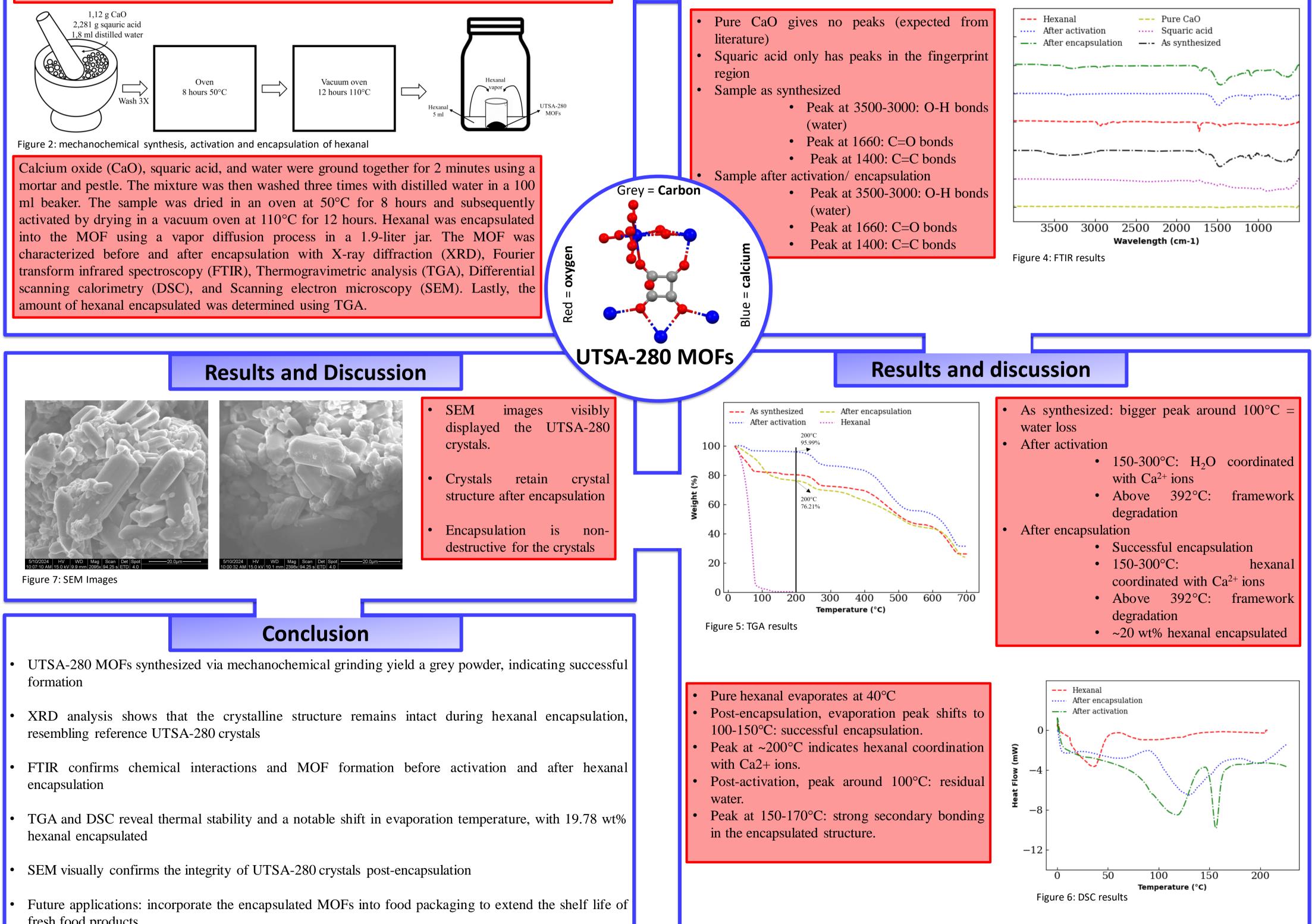
## Encapsulation of hexanal in calcium-squarate metal organic framework (UTSA-280) for active packaging

Tuur Bollen

Master of Chemical Engineering Technology







- fresh food products

## Supervisors / Co-supervisors / Advisors: Prof. Dr. Ir Mieke Buntinx/ Prof. Dr. Ajay Kathuria

- A. Kathuria, A. El Badawy, S. Al-Ghamdi, L. S. Hamachi, and M. B. Kivy, "Environmentally benign bioderived, biocompatible, thermally stable MOFs suitable for food contact applications," Trends in Food Science and Technology, vol. 138. pp. 323–338, Aug. 01, 2023. doi: 10.1016/j.tifs.2023.06.024.
- S. Xian, Y. Lin, H. Wang, and J. Li, "Calcium-Based Metal-Organic Frameworks and Their Potential Applications," Small, vol. 17, no. 22. John Wiley and Sons Inc, Jun. 01, 2021. doi: 10.1002/smll.202005165. [2]
- R. H. Shi et al., "Two calcium-based metal organic frameworks with long afterglow as anticounterfeiting materials," Chemical Engineering Journal, vol. 479, Jan. 2024, doi: 10.1016/j.cej.2023.147851 [3]



[1]

De opleiding industrieel ingenieur is een gezamenlijke opleiding van UHasselt en KU Leuven

