

National University of Science and Technology POLITEHNICA
Bucharest
Faculty Energy Engineering
Department of Energy Production and Use

Ph.D. Student Maytham Oday Alabid

An energy engineer and current Ph.D. student with a solid research background in Energy conversion and carbon capture fields.

Education

Ph.D. - National University of Science and Technology POLITEHNICA Bucharest / Romania (2019-2024)

Specialty in fossil fuels, biomass, renewable energy sources, and environmental protection through Carbon Capture and Storage processes. Supervisor: Professor Cristian Dinca- Head of Energy Generation and Use Department; Faculty of Power Engineering at Polytechnic University Of Bucharest.

Master - National University of Science and Technology POLITEHNICA Bucharest / Romania (2017-2019)

Chemical engineering and solar energy was the field of study.

Bachelor - University of Baghdad/ Iraq (2011-2015)

Specialty in wind and solar energy.

Teaching/supervising experience

- Student training and assessment

- Delivering teaching sessions on integration carbon capture technologies in different CO₂ emissions sources.

Publications

- Alabid M, Cormos CC, Dinca C. Critical Assessment of Membrane Technology Integration in a Coal-Fired Power Plant. *Membranes*. 2022 Sep 19;12(9):904.
- Alabid M, Dinca C. Parametrization Study for Optimal Pre-Combustion Integration of Membrane Processes in BIGCC. *Sustainability*. 2022 Jan;14(24):16604.
- Alabid M, Dinca C. Membrane CO₂ Separation System Improvement for Coal-Fired Power Plant Integration. *Energies*. 2024 Jan 18;17(2):464.
- Alabid M, Dinca C. Parametrical Assessment of Polyacrylamide Polymer Membrane Used for CO₂ Post-Combustion Capture. *Applied sciences. Sci*. 2023, 13(20).
- Alabid M, Dinca C. Two Membrane Stages for Capturing CO₂ Generated By Coal Fired Power Plant.

Conferences

- M. Alabid and C. Dinca, Influence of the membrane characteristics on CO₂ post-combustion performances. 14th International Conference On Sustainable Energy & Environmental Protection SEEP2022 – London.
- C. Dinca and Alabid Maytham, A critical parametrization study of the membrane technology integration in an advanced coal-fired power plant. 7th International Conference on Contemporary Problems of Thermal Engineering CPOTE2022 – Warswa/Poland.
- M. Alabid (keynote speaker) and C. Dinca, Membrane Development for CO₂ Capture in the Energy Intensive Industries. 9th International Conference on Materials Science and Technologies RoMat 2022 – Bucharest/Romania.
- M. Alabid, Optimization of post-combustion integration of polymer membranes in the clinker manufacturing process for CO₂ reduction, 7th Green and Sustainable Chemistry Conference – Dresden Germany 2023.
- Alabid M, Slavu N, Sandru M, Dinca C. Hybrid polymeric membrane–chemical absorption system for pre-combustion CO₂ capture. In Computer Aided Chemical Engineering 2023 Jan 1 (Vol. 52, pp. 3073-3078). Elsevier.
- Slavu N, Alabid M, Sandru M, Dinca C. A techno-economic assessment of biomass combustion with CO₂ capture technology. In Computer Aided Chemical Engineering 2023 Jan 1 (Vol. 52, pp. 3219-3225). Elsevier.