

MINH THANG LE



Professor

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<https://scholar.google.com/citations?user=Le7wSS4AAAAJ&hl=vi>

Education:

- PhD (12/2000 - 02/2005): Doctor of Science in Chemistry, University of Ghent, Belgium.
- Master (11/1997 - 12/1999): Master in Petrochemistry, Hanoi University of Science and Technology.
- Engineer (09/1992 - 05/1997): Engineer in Petrochemistry, Hanoi University of Science and Technology, Vietnam

Experience:

- Professor (01/2020 - present): Division of Petrochemical and Gas Technology, School of Chemistry and Life Sciences, Hanoi University of Science and Technology.
- Associate Professor (05/2010 - 12/2019): Department of Organic and Petrochemical Technology, School of Chemical Engineering, Hanoi University of Science and Technology.
- Lecturer (03/2005 - 05/2010): Department of Organic and Petrochemical Technology, School of Chemical Engineering, Hanoi University of Science and Technology.

Research Areas:

- Catalysts for the treatment of exhaust gases: complete oxidation of CO, hydrocarbons, VOCs, deNO_x.
- Selective oxidation of light hydrocarbons: propylene/propane, methane.
- Photocatalysis for the treatment of heavy metals and organic compounds in wastewater.
- Biomass conversion to activated carbons, fuels, and biogas (including CH₄ and H₂).
- Carbon-based materials for the adsorption and conversion of CO₂.

Selective Publications:

1. Phenol-rich bio-oil synthesis via single and dual metal-oxide/zeolite catalysts in biomass catalytic pyrolysis: Comparison of Y₂O₃/ZSM-5 and MgO/ Y₂O₃/ZSM-5", *Biomass and Bioenergy*, 2026, 205, 108565.
2. "Complete oxidation of methane on Co₃O₄-CuO/MCM-41 catalysts and the exploration of the

role of oxygen vacancies via DFT calculations", *Journal of the Taiwan Institute of Chemical Engineers*, 2025, 106448.

3. Methylene blue dye degradation characteristics of BiFeO₃-graphene-LiNbO₃ ternary nanocomposites", *Sustainable Materials and Technologies*, 2025, 44, e01331
4. "Structure–Activity Relationships in NH₃-SCR Over Fe Presence in Cu/SAPO-34 as Revealed by In-Situ EPR and In-Situ FI-IR Spectroscopy." *Topics in Catalysis* (2025): 1-17
5. "Au/SiO₂-Based Catalysts for Propanol/Propanal Synthesis from CO₂, C₂H₄, and H₂ in a Dual-reactor System." *ACS Sustainable Chemistry & Engineering* 10.50 (2022): 16548-16554