

## Personal Information

**Email:** neslisahcihan@hacettepe.edu.tr

**Web:** <https://avesis.hacettepe.edu.tr/14131>

## International Researcher IDs

ScholarID: j26x5asAAAAJ

ORCID: 0000-0002-5348-0314

Publons / Web Of Science ResearcherID: AGM-7845-2022

ScopusID: 57217385350

Yoksis Researcher ID: 304011

## Research Areas

Chemical Reaction Engineering, Catalysis and Catalytic Processes

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhancing CO<sub>2</sub> desorption efficiency with Non-Aqueous Catalyst-Enhanced Tri-Blend amines**  
YÜKSEL ORHAN Ö., Hugul A., ULUS F. N., YAVUZ ERSAN H.  
FUEL, 2024 (SCI-Expanded)
- II. **Response Surface Optimization of Nonaqueous Hexanol-Based Trisolvant Amine Blends for Energy-Efficient CO<sub>2</sub> Desorption**  
Hugul A. E., Ulus N., YÜKSEL ORHAN Ö., YAVUZ ERSAN H.  
Energy Technology, 2024 (SCI-Expanded)
- III. **Reduced energy consumption and enhanced CO<sub>2</sub> desorption performance of non-aqueous ionic-liquid-containing amine blends with zeolites**  
Ulus N., Yüksel Orhan Ö.  
JOURNAL OF MOLECULAR LIQUIDS, vol.359, 2022 (SCI-Expanded)
- IV. **Optimization of novel nonaqueous hexanol-based monoethanolamine/methyl diethanolamine solvent for CO<sub>2</sub> absorption**  
Ulus N., Ali S. A. S., Khalifa O., YÜKSEL ORHAN Ö., Elkamel A.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.7, pp.9000-9019, 2022 (SCI-Expanded)
- V. **A hybrid chemo-biocatalytic system of carbonic anhydrase submerged in CO<sub>2</sub>-phillic sterically hindered amines for enhanced CO<sub>2</sub> capture and conversion into carbonates**  
Cihan N., Bharath G., Nadda A. K., YukselOrhan O.  
INTERNATIONAL JOURNAL OF GREENHOUSE GAS CONTROL, vol.111, 2021 (SCI-Expanded)
- VI. **Effect of non-aqueous solvents on kinetics of carbon dioxide absorption by (Bu<sub>3</sub>P)-Bu-t/B(C<sub>6</sub>F<sub>5</sub>)(<sub>3</sub>) frustrated Lewis pairs**  
Cihan N., YÜKSEL ORHAN Ö., YAVUZ ERSAN H.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.258, 2021 (SCI-Expanded)
- VII. **The development of reaction kinetics for CO<sub>2</sub> absorption into novel solvent Frustrated Lewis (FLPs)**  
Yüksel Orhan Ö., Cihan N., Şahin V., Karabakan A., Alper E.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.252, 2020 (SCI-Expanded)

- VIII. **The enhanced enzymatic performance of carbonic anhydrase on the reaction rate between CO<sub>2</sub> and aqueous solutions of sterically hindered amines**  
Cihan N., YÜKSEL ORHAN Ö.  
GREENHOUSE GASES-SCIENCE AND TECHNOLOGY, vol.10, no.5, pp.925-937, 2020 (SCI-Expanded)
- IX. **Kinetics and mechanism of reaction between carbon disulfide and novel aqueous amines solutions**  
YÜKSEL ORHAN Ö., Cihan F. N., Alper E.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.18, no.3-4, pp.401-409, 2019 (SCI-Expanded)

## **Metrics**

Publication: 9

Citation (WoS): 8

Citation (Scopus): 24

H-Index (WoS): 1

H-Index (Scopus): 3