

## Res. Asst. ALİ CEM YAKARYILMAZ

### Personal Information

**Office Phone:** [+90 322 338 6600](tel:+903223386600) Extension: 3636

**Email:** [acyakaryilmaz@cu.edu.tr](mailto:acyakaryilmaz@cu.edu.tr)

**Web:** <https://avesis.cu.edu.tr/acyakaryilmaz>

### International Researcher IDs

ORCID: 0000-0001-7977-2959

Publons / Web Of Science ResearcherID: F-1411-2018

ScopusID: 57200757147

Yoksis Researcher ID: 268191

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, Turkey 2018 - Continues

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, Turkey 2017 - 2018

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Otomotiv Mühendisliği, Turkey 2010 - 2015

### Dissertations

Postgraduate, Energy and Exergy Analysis of A Proton Exchange Membrane Fuel Cell (PEMFC), Cukurova University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, 2018

### Research Areas

Energy, Renewable energy, Mechanical Engineering, Energy, Alternative Energy Resources, Hydrogen Technologies and Fuel Cells , Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, 2017 - Continues

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

- I. **Effects of hydrogen addition into liquefied petroleum gas reductant on the activity of Ag-Ti-Cu/Cordierite catalyst for selective catalytic reduction system**  
Keskin Z., ÖZGÜR T., ÖZARSLAN H., YAKARYILMAZ A. C.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.10, pp.7634-7641, 2021 (SCI-Expanded)
- II. **A review: Exergy analysis of PEM and PEM fuel cell based CHP systems**  
ÖZGÜR T., YAKARYILMAZ A. C.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.38, pp.17993-18000, 2018 (SCI-Expanded)
- III. **Thermodynamic analysis of a Proton Exchange Membrane fuel cell**  
ÖZGÜR T., YAKARYILMAZ A. C.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.38, pp.18007-18013, 2018 (SCI-Expanded)

- IV. **Investigation the Fuel Properties of Apricot Kernel Biodiesel and Diesel-Biodiesel Fuel Blends**  
ÖZGÜR C., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZGÜR T.  
JOURNAL OF BIOTECHNOLOGY, vol.208, pp.30, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **NO<sub>x</sub> emission reduction through selective catalytic reduction using copper-based Y zeolite catalyst: experimental investigation and characterization**  
Yakaryılmaz A. C., Özgür T.  
International Journal of Automotive Engineering and Technologies, vol.13, no.3, pp.84-90, 2024 (Peer-Reviewed Journal)
- II. **Evaluation of Lithium-ion Batteries in Electric Vehicles**  
Tosun E., Keyinci S., Yakaryılmaz A. C., Yıldızhan Ş., Özcanlı M.  
International Journal of Automotive Science and Technology, vol.8, no.3, pp.332-340, 2024 (Peer-Reviewed Journal)
- III. **Development of a prototype hydrogen vehicle**  
Yakaryılmaz A. C., Yıldızhan Ş., Aktaş A. E., Baş O., Tosun E., Özgür T., Aydın K.  
International Journal of Automotive Engineering and Technologies, vol.9, no.4, pp.190-195, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **NO<sub>x</sub> Reduction Performance of Zn-Cu/TiO<sub>2</sub> and P-Zn-Cu/TiO<sub>2</sub> Catalysts for HC-SCR System at Low Temperatures**  
Özarslan H., Yakaryılmaz A. C.  
IV. INTERNATIONAL SIIRT CONFERENCE ON SCIENTIFIC RESEARCH, Siirt, Turkey, 17 - 18 November 2023, pp.891-898
- II. **Characterization and low-temperature DeNO<sub>x</sub> Performance of Copper-based Y-Zeolite Catalyst for Selective Catalytic Reduction System**  
YAKARYILMAZ A. C., KESKİN A., ÖZGÜR T.  
7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Turkey, 24 October 2022, pp.178
- III. **Recent Advances in NO<sub>x</sub> Abatement Performance of Copper-Based Zeolite Catalysts in Hydrocarbon Selective Catalytic Reduction Systems**  
Yakaryılmaz A. C., Özgür T.  
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.654-656
- IV. **Effects of higher alcohol addition to diesel fuel on emission and performance characteristics of compression ignition engine: An overview**  
YAKARYILMAZ A. C., TOSUN E., ÖZGÜR T.  
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020
- V. **Performance And Emission Characteristics Of A Diesel Engine Equipped With A Dual Renewable Oxyhydrogen (HHO) Gas Generation System**  
YAKARYILMAZ A. C., ÖZGÜR T., ÖZCANLI M.  
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020
- VI. **Addition of hydrogen into LPG reductant in SCR system with Ag-Ti-Cu/Al<sub>2</sub>O<sub>3</sub> catalyst**

ÖZARSLAN H., YAKARYILMAZ A. C., ÖZGÜR T., KESKİN A.

4th International Mediterranean Science and Engineering Congress (IMSEC 2019), 25 - 27 April 2019, pp.1110

VII. **Investigation the fuel properties of apricot kernel biodiesel and diesel-biodiesel fuel blends**

Ozgur C., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZGÜR T.

European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280

VIII. **Energy and Exergy Analysis of 1 kW Self-humidified PEM Fuel Cell**

ÖZGÜR T., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZCANLI M.

3rd International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018, pp.106

IX. **Thermodynamic Analysis of a Proton Exchange Membrane Fuel Cell**

ÖZGÜR T., YAKARYILMAZ A. C.

2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.2296

X. **A review of exergy analysis of both PEM fuel cells and CHP systems based on PEM fuel cell**

ÖZGÜR T., YAKARYILMAZ A. C.

2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.2295

## Supported Projects

ÖZGÜR T., YAKARYILMAZ A. C., TOSUN E., Project Supported by Higher Education Institutions, Proton Değişim Membranlı Yakıt Pilinin Enerji ve Ekserji Analizi, 2018 - 2019

## Metrics

Publication: 18

Citation (WoS): 54

Citation (Scopus): 57

H-Index (WoS): 2

H-Index (Scopus): 2