

## **Personal Information**

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## **International Researcher IDs**

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## **Education Information**

Undergraduate, Yeditepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2005 - 2011

## **Foreign Languages**

English, B2 Upper Intermediate

## **Academic Titles / Tasks**

Research Assistant, Ondokuz Mayıs University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2016 - Continues

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

- I. **Optimal design and operation of a multi-energy microgrid using mixed-integer nonlinear programming: Impact of carbon cap and trade system and taxing on equipment selections**  
Akulker H., Aydin E.  
APPLIED ENERGY, vol.330, 2023 (SCI-Expanded)
- II. **Optimal design and operation of integrated microgrids under intermittent renewable energy sources coupled with green hydrogen and demand scenarios**  
Tatar S. M., Akulker H., Sildir H., Aydin E.  
International Journal of Hydrogen Energy, vol.47, no.65, pp.27848-27865, 2022 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **AN MINLP-BASED OPTIMAL DESIGN AND SCHEDULING OF A POWER TO GAS SYSTEM INTEGRATED MICROGRID: A CASE STUDY FROM TURKEY**  
Akülker H., Aydın E.  
23rd World Hydrogen Energy Conference: Bridging Continents by H2, WHEC 2022, İstanbul, Turkey, 26 - 30 June 2022, pp.1136-1138
- II. **DETERMINATION OF MEASUREMENT UNCERTAINTY IN ANALYSIS OF LOSS ON IGNITION OF CEMENT**  
AKÜLKER H., YILDIZ ÖZGÜL H.  
COSTAS International Conference on Computational and Statistical Methods in Applied Sciences, 09 November

2017 - 11 January 2018

**III. DETERMINATION OF MEASUREMENT UNCERTAINTY IN ANALYSIS OF NITROGEN IN WATER**

AKÜLKER H., YILDIZ ÖZGÜL H.

COSTAS International Conference on Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017

**IV. Performing Proficiency Tests Analysis of Anions in Water**

AKÜLKER H., Yıldız Özgün H., GÜRKAN E. H.

COSTAS International Conference on Computational and Stas., Samsun, Turkey, 9 - 11 November 2017

**V. PERFORMING PROFICIENCY TESTS FOR ANALYSIS OF ANIONS IN WATER**

AKÜLKER H., YILDIZ ÖZGÜL H., GÜRKAN E. H.

COSTAS International Conference on Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017

**VI. Full factorial deslgn to removal of Zlnc (II) Ions from water by uslng hydrogel mlcrospheres**

AKÜLKER H., GÜRKAN E. H.

4th World Congress and Expo on Recycling, 27 - 29 July 2017

**VII. Color removal from textile dyeing effluent by natural and activated clay adsorbents**

AKÜLKER H., GÜRKAN E. H., ÇORUH S.

4th World Congress and Expo on Recycling, 27 - 29 July 2017