

Personal Information

Email: handan.akulker@omu.edu.tr

Web: <https://avesis.omu.edu.tr/handan.akulker>

International Researcher IDs

ScholarID: zktwFfcAAAAJ

ORCID: 0000-0002-2036-5678

Yoksis Researcher ID: 185032

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 Zinc (II) Ions from water by using 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