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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 design to removal of Zinc (II) Ions from water by using hydrogel microspheres**
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