

## Prof. AYŞE BENK

### Personal Information

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Publons / Web Of Science ResearcherID: AAS-9378-2021

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 1998 - 2001

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 1995 - 1997

Undergraduate, Erciyes University, Turkey 1990 - 1994

### Research Areas

Thermoset Polymers, adhesives

### Academic Titles / Tasks

Associate Professor, Erciyes University, Fen Fakültesi, Kimya, 2014 - Continues

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

- I. **Economical biobinders and their blends suitable for the production of coal briquettes, heat insulating materials and other industrial applications**  
Benk A., Delibaş A., Coban A.  
INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION, vol.42, no.11, pp.3484-3501, 2022 (SCI-Expanded)
- II. **Economical Method for Producing Nascent Iodine Products with Aprotic Solvents (NMP, DMSO) Possessing Highly Effective Antimicrobial Properties**  
BENK A., Güçlü D., Coban A.  
Journal of Polymers and the Environment, vol.30, no.3, pp.1118-1126, 2022 (SCI-Expanded)
- III. **Laponite-AMPS/AA composite hydrogels for efficient removal of methylene blue (MB)**  
Buyukbektas A., DELİBAŞ A., BENK A., COŞKUN R.  
JOURNAL OF POLYMER RESEARCH, vol.28, no.8, 2021 (SCI-Expanded)
- IV. **The affects of heat and/or acid treatment on bleaching properties of serpentine to be utilized in reclaiming waste engine oil**  
BENK A.  
FUEL, vol.290, 2021 (SCI-Expanded)
- V. **A simple method for the production of fuel and fuel additives from renewable low-viscosity mineral oils (Number-10 oil) and their mixtures**

BENK A., Coban A.

RENEWABLE ENERGY, vol.147, pp.1491-1499, 2020 (SCI-Expanded)

- VI. **Possibility of producing lightweight, heat insulating bricks from pumice and H<sub>3</sub>PO<sub>4</sub>- or NH<sub>4</sub>NO<sub>3</sub>-hardened molasses binder**  
Benk A., ÇOBAN A.  
CERAMICS INTERNATIONAL, vol.38, no.3, pp.2283-2293, 2012 (SCI-Expanded)
- VII. **Molasses and air blown coal tar pitch binders for the production of metallurgical quality formed coke from anthracite fines or coke breeze**  
BENK A., ÇOBAN A.  
FUEL PROCESSING TECHNOLOGY, vol.92, no.5, pp.1078-1086, 2011 (SCI-Expanded)
- VIII. **Investigation of resole, novalac and coal tar pitch blended binder for the production of metallurgical quality formed coke briquettes from coke breeze and anthracite**  
BENK A., ÇOBAN A.  
FUEL PROCESSING TECHNOLOGY, vol.92, no.3, pp.631-638, 2011 (SCI-Expanded)
- IX. **Utilisation of the binders prepared from coal tar pitch and phenolic resins for the production metallurgical quality briquettes from coke breeze and the study of their high temperature carbonization behaviour**  
BENK A.  
FUEL PROCESSING TECHNOLOGY, vol.91, no.9, pp.1152-1161, 2010 (SCI-Expanded)
- X. **Phenolic resin binder for the production of metallurgical quality briquettes from coke breeze: Part III the effect of the type of acidic hardeners on the quality of the formed coke and the possibility to avoid the curing stage to produce metallurgical briquettes with enough strength**  
BENK A., Talu M., Coban A.  
FUEL PROCESSING TECHNOLOGY, vol.90, no.7-8, pp.971-979, 2009 (SCI-Expanded)
- XI. **Phenolic resin binder for the production of metallurgical quality briquettes from coke breeze: Part I**  
BENK A., Talu M., Coban A.  
FUEL PROCESSING TECHNOLOGY, vol.89, no.1, pp.28-37, 2008 (SCI-Expanded)
- XII. **Phenolic resin binder for the production of metallurgical quality briquettes from coke breeze: Part II the effect of the type of the basic catalyst used in the resole production on the tensile strength of the formed coke briquettes**  
BENK A., Talu M., Coban A.  
FUEL PROCESSING TECHNOLOGY, vol.89, no.1, pp.38-46, 2008 (SCI-Expanded)

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

- I. **Kolay Tutuşan Mangal Kömürü, Dumansız Yakıt Üretim Metodları ve Hava kirliliğinin Önlenmesine Katkıları**  
ÇOBAN A., SARAÇOĞLU M., BENK A.  
Kimya 94 X. Ulusal Kimya Kongresi, Bursa, Turkey, 1 - 04 June 1994, pp.218

## **Patent**

Benk A., Çoban A., YENİ BİR YAKIT KATKI MADDESİ ÜRETİM METODU, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2017 22659 B , Standard Registration, 2022

Çoban A., Benk A., Atık Yağlardan Yakıt ve Yakıt Katkı Maddelerinin Üretim Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2017 22740 B , Standard Registration, 2021

Benk A., Çoban A., PDMS-I ESASLI BİR ANTIMİKROBİYAL EMÜLSİYON ÜRETİM YÖNTEMİ, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2015 05127 B , Standard Registration, 2020

Benk A., Çoban A., PRODUCTION METHOD FOR A PDMS-I BASED ANTIMICROBIAL SOLUTION, Patent, CHAPTER A Human

Needs, The Invention Registration Number: EP3389381 (B1) , 2020

Benk A., İyodofor Esaslı Bir Antimikrobiyal Hidrojel Üretim Yöntemi, Patent, CHAPTER A Human Needs, The Invention  
Registration Number: TR 2015 05114 B , Standard Registration, 2020

## **Metrics**

Publication: 13

Citation (WoS): 147

Citation (Scopus): 169

H-Index (WoS): 7

H-Index (Scopus): 7