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International Researcher IDs

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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), Turkey 2009 - 2015

Postgraduate, Anadolu University, Institute Of Science, Kimyasal Teknolojiler (YI) (Tezli), Turkey 2005 - 2008

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2004 - 2008

Undergraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, Turkey 2001 - 2005

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Orman biyokütlesinden (Paulownia elongata ağacı) aktif karbon ve katalitik piroliz ile biyoyakıt üretiminin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), 2015

Postgraduate, Üzüm çekirdeği ektresinden flavan-3-ol bileşiklerinin adsorpsiyon prosesi ile saflaştırılması ve proses optimizasyonu, Anadolu University, Fen Bilimleri Enstitüsü, Kimyasal Teknolojiler (YI) (Tezli), 2008

Research Areas

Chemical Engineering and Technology

Courses

KİMYA MÜHENDİSLİĞİNDE TASARIM I, Undergraduate, 2017 - 2018

KİMYA MÜHENDİSLİĞİNDE TASARIMI II, Undergraduate, 2017 - 2018

PROJE VE RİSK YÖNETİMİ, Undergraduate, 2017 - 2018, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of electrooxidation and methanolysis of sodium borohydride on activated carbon supported Co catalysts from poplar sawdust**
Caglar A., Kaya Ş., Saka C., Yıldız D., Demir Kıvrak H.
International Journal of Hydrogen Energy, vol.75, pp.171-178, 2024 (SCI-Expanded)
- II. **Synthesis and Characterization of Polymer Particles as Metal-Free Catalysts for Electrooxidation and Methanolysis of Sodium Borohydride**
Gokkus K., Kaya Ş., Yıldız D., Saka C., Gür M., Bütün V., Demir Kıvrak H.
ChemistrySelect, vol.9, no.26, 2024 (SCI-Expanded)
- III. **Hydrogen Generation from NaBH₄ Methanolysis with Ru/AC Catalyst Synthesized by Microwave Reduction Method**
YILDIZ D.
Waste and Biomass Valorization, vol.15, no.7, pp.4061-4070, 2024 (SCI-Expanded)
- IV. **Activated carbon from waste fabrics as a catalyst for NaBH₄ methanolysis**
Yıldız D., Sariboğa E., Altınay B. S., Denктаş D., Şirin G., Altun Ş. N., Kaya Ş., Kıvrak H. D., Korkmaz N.
Process Safety and Environmental Protection, vol.185, pp.831-838, 2024 (SCI-Expanded)
- V. **Waste ceramic frit as novel catalyst triggering sodium borohydride methanolysis reaction**
Rüzgar D., YILDIZ D., KAYA Ş., Martinez J. v., Yeşilbursa G., DEMİR KIVRAK H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.56, pp.1038-1048, 2024 (SCI-Expanded)
- VI. **Catalytic pyrolysis of Paulownia wood and bio-oil characterization**
Yıldız D.
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, vol.46, no.1, pp.1626-1643, 2024 (SCI-Expanded)
- VII. **Enhanced hydrogen production via methanolysis and energy storage on novel poplar sawdust-based biomass-derived activated carbon catalyst**
KAYA Ş., Saka C., YILDIZ D., EROL S., Ulaş B., Demir I., DEMİR KIVRAK H.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.53, no.8, pp.1643-1655, 2023 (SCI-Expanded)
- VIII. **Effect of binder on the electrochemical performance of activated carbon electrodes obtained from waste hazelnut shells: Comparison of PTFE and PVDF**
Ozpinar P., Dogan C., Demiral H., Moralı U., Erol S., Yıldız D., Şamdan C., Demiral İ.
DIAMOND AND RELATED MATERIALS, vol.137, 2023 (SCI-Expanded)
- IX. **A novel hazelnut bagasse based activated carbon as sodium borohydride methanolysis and electrooxidation catalyst**
Saka C., Yıldız D., Kaya Ş., Caglar A., Elitok D., Yaylı E., Kaya M., Atelge R., Demir Kıvrak H.
International Journal of Hydrogen Energy, vol.48, no.65, pp.25339-25353, 2023 (SCI-Expanded)
- X. **Adsorption of malachite green on to poplar sawdust activated carbon**
YILDIZ D., Demir I., DEMİRAL H.
SEPARATION SCIENCE AND TECHNOLOGY, vol.58, no.12, pp.2099-2114, 2023 (SCI-Expanded)
- XI. **The effect of sweeping gas velocity and particle size on product yields and tar characterization in pyrolysis of Paulownia Elongata wood Paulownia Elongata odununun pirolizinde sürükleyici gaz hizi ve parçacık boyutunun ürün verimlerine etkisi ve katran karakterizasyonu**
Yıldız D.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.3, pp.1699-1710, 2023 (SCI-Expanded)
- XII. **Investigation of the methylene blue adsorption onto waste perlite**
SELENGİL U., YILDIZ D.
DESALINATION AND WATER TREATMENT, vol.262, pp.235-247, 2022 (SCI-Expanded)
- XIII. **Activated carbons prepared from hazelnut shell waste by phosphoric acid activation for supercapacitor electrode applications and comprehensive electrochemical analysis**
Ozpinar P., Dogan C., Demiral H., Moralı U., Erol S., Şamdan C., Yıldız D., Demiral İ.
Renewable Energy, vol.189, pp.535-548, 2022 (SCI-Expanded)
- XIV. **Adsorption of methylene blue onto activated carbon obtained from ZnCl₂-activation of paulownia**

wood: kinetic and equilibrium studies

Yorgun S., KARAKEHYA N., Yildiz D.

DESALINATION AND WATER TREATMENT, vol.58, pp.274-284, 2017 (SCI-Expanded)

XV. **Activated carbon from paulownia wood: Yields of chemical activation stages**

YORGUN S., YILDIZ D., ŞİMŞEK Y. E.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.14, pp.2035-2042, 2016 (SCI-Expanded)

XVI. **Preparation and characterization of activated carbons from Paulownia wood by chemical activation with H₃PO₄**

Yorgun S., Yildiz D.

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.53, pp.122-131, 2015 (SCI-Expanded)

XVII. **Slow pyrolysis of paulownia wood: Effects of pyrolysis parameters on product yields and bio-oil characterization**

Yorgun S., Yildiz D.

JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.114, pp.68-78, 2015 (SCI-Expanded)

XVIII. **Study of polyphenol content in the seeds of red grape (Vitis vinifera L.) varieties cultivated in Turkey and their antiradical activity**

Bozan B., Tosun G., Ozcan D.

FOOD CHEMISTRY, vol.109, no.2, pp.426-430, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **THE HIGH-EFFICIENCY CR(VI) ADSORPTION USING POPLAR WOOD BASED ACTIVATED CARBON**

Demir İ., Çağlar A., Yıldız D.

INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE (IJEES), vol.13, no.3, pp.63-74, 2023 (ESCI)

II. **ADSORPTION OF DEEP RED ON AC PREPARED FROM CHESTNUT SHELL**

SELENGİL U., YILDIZ D., TAN B.

Bartın Üniversitesi Uluslararası Fen Bilimleri Dergisi, 2023 (Peer-Reviewed Journal)

III. **ÇEŞİTLİ AKTİVASYON YÖNTEMLERİNİN SEPIYOLİTİN YÜZEY ÖZELLİKLERİNE ETKİSİ**

Yıldız D., Yalınzoğlu D.

Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.28, no.2, pp.107-116, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Investigation of Electrooxidation and Methanolysis of Sodium Borohydride on Activated Carbon Supported Co Catalysts from Poplar Sawdust**

ÇAĞLAR A., KAYA Ş., SAKA C., YILDIZ D., DEMİR KIVRAK H.

7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May 2023, pp.71-74

II. **Evaluation of Electrode Properties of Activated Carbon Produced from Biomass Waste**

ÖZPINAR P., DOĞAN C., MORALI U., ŞAMDAN C., YILDIZ D., EROL S., DEMİRAL İ., DEMİRAL H.

3rd Bioenergy Studies Symposium, Turkey, 20 May 2021

III. **The Effects of Grinding on The Textural Properties of Sepiolite**

YILDIZ D., YALNIZOĞLU D., ÇEVİK E.

International Science and Academic Congress'xx18, 8 - 09 December 2018

IV. **Paulownia Ağacının P Elongate Sabit Yatak Reaktöründe Pirolizi Piroliz Parametrelerinin Bio oil Verimine Etkisi**

YILDIZ D., YORGUN S.

11. Ulusal Kimya Mühendisliği Kongresi, Turkey, 02 September 2015 - 05 September 2014

V. ADSORPTION OF PHENOLIC ANTIOXIDANTS FROM GRAPESEED USING AMBERLITE XAD 7 RESIN

YILDIZ D., BOZAN B.

10th Euro Fed Lipid Congress Fats, Oils and Lipids: from Science and Technology to Health, 23 - 26 September 2012

VI. Üzüm Polifenollerinin Ekstraksiyonu 1 Ekstraksiyon Çözücüsünün Polifenol Verimi Ve Antioksidan Aktivitesi Üzerine Etkileri

GÖKSEL T., YILDIZ D., SERKAN O., KOÇ H., BİLUN DENİZ S., BOZAN B.

7. Ulusal Kimya Mühendisliği Kongresi, Turkey, 05 September 2006 - 08 September 2005

Metrics

Publication: 29

Citation (WoS): 532

Citation (Scopus): 624

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H-Index (Scopus): 6