

Prof. NEBAHAT DEĞİRMENBAŞI

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1997 - 2003

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Turkey 1993 - 1997

Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, Kimya Pr., Turkey 1990 - 1993

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1989 - 1991

Research Areas

Chemistry

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Kimya, 2017 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Kimya, 2010 - 2017

Assistant Professor, Gazi University, Fen Fakültesi, Kimya, 2006 - 2010

Research Assistant PhD, Gazi University, Fen Fakültesi, Kimya, 2003 - 2006

Research Assistant, Gazi University, Fen Fakültesi, Kimya, 1994 - 2003

Advising Theses

DEĞİRMENBAŞI N., Synthesis Of Some Aldehydes, Ketones And Bromination Of Aromatic Compounds Using Of Imidazole Derivative Compounds, Postgraduate, M.Eryaprak(Student), 2017

DEĞİRMENBAŞI N., Heterojen katalizörler kullanarak transmetilleme tepkimesi ile gliserin içermeyen biyoyakıt eldesi, Postgraduate, A.ÖZGEN(Student), 2017

DEĞİRMENBAŞI N., Production Of Glycerin-Free Biofuel With Transmethylation Reaction Using Heterogenous Catalysts, Postgraduate, A.Özgen(Student), 2017

DEĞİRMENBAŞI N., İmidazol türevi bileşikler kullanarak bazı aldehitlerin, ketonların eldesi ve aromatik bileşiklerin bromlanması, Postgraduate, M.ERYAPRAK(Student), 2017

DEĞİRMENBAŞI N., Study of heterogeneous solid catalyst system transesterification reaction, Postgraduate, F.BAĞCI(Student), 2013

DEĞİRMENBAŞI N., Synthesis of fatty acid methyl esters by transesterification reaction using basic catalyst, Postgraduate, S.COSKUN(Student), 2013

DEĞİRMENBAŞI N., synthesis of some alkali base catalysts, its characterization and production of biodiesel with transesterification reaction of oils in the catalysts, Postgraduate, M.ARAS(Student), 2011

DEĞİRMENBAŞI N., Synthesis of some nano-scale catalysts, characterization and investigation of transesterification reaction of the catalyst system, Postgraduate, T.CENGİZ(Student), 2011

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Glycerol transesterification with dimethyl carbonate using nano alumina based catalysts**
Nebahat D., Nezahat B.
RESEARCH JOURNAL OF BIOTECHNOLOGY, vol.10, no.8, pp.26-34, 2015 (Journal Indexed in SCI)
- II. **Biodiesel synthesis from canola oil via heterogeneous catalysis using functionalized CaO nanoparticles**
DEĞİRMENBAŞI N., Coskun S., Boz N., Kalyon D. M.
FUEL, vol.153, pp.620-627, 2015 (Journal Indexed in SCI)
- III. **Esterification and transesterification of waste cooking oil over Amberlyst 15 and modified Amberlyst 15 catalysts**
Boz N., DEĞİRMENBAŞI N., Kalyon D. M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.165, pp.723-730, 2015 (Journal Indexed in SCI)
- IV. **A nanobursa mesh: a graded electrospun nanofiber mesh with metal nanoparticles on carbon nanotubes**
Senturk-Ozer S., Chen T., Degirmenbasi N., Gevgilili H., Podkolzin S. G. , Kalyon D. M.
NANOSCALE, vol.6, no.15, pp.8527-8530, 2014 (Journal Indexed in SCI)
- V. **Biofuel production via transesterification using sepiolite-supported alkaline catalysts**
DEĞİRMENBAŞI N., Boz N., Kalyon D. M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.150, pp.147-156, 2014 (Journal Indexed in SCI)
- VI. **Transesterification of canola oil to biodiesel using calcium bentonite functionalized with K compounds**
Boz N., DEĞİRMENBAŞI N., Kalyon D. M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.138, pp.236-242, 2013 (Journal Indexed in SCI)
- VII. **Conversion of biomass to fuel: Transesterification of vegetable oil to biodiesel using KF loaded nano-gamma-Al₂O₃ as catalyst**
Boz N., DEĞİRMENBAŞI N., Kalyon D. M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.89, pp.590-596, 2009 (Journal Indexed in SCI)
- VIII. **Investigation of the fuel properties of biodiesel produced over an alumina-based solid catalyst**
Boz N., Kara M., Sunal O., ALPTEKİN E., DEĞİRMENBAŞI N.
TURKISH JOURNAL OF CHEMISTRY, vol.33, no.3, pp.433-442, 2009 (Journal Indexed in SCI)
- IX. **Surface patterning of poly(L-lactide) upon melt processing: In vitro culturing of fibroblasts and osteoblasts on surfaces ranging from highly crystalline with spherulitic protrusions to amorphous with nanoscale indentations**
Degirmenbasi N., Ozkan S., Kalyon D. M. , Yu X.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, no.1, pp.94-104, 2009 (Journal Indexed in SCI)
- X. **Recrystallization of CL-20 and HNFx from solution for rigorous control of the polymorph type: Part II, Experimental studies**
Degirmenbasi N., Peralta-Inga Z., Olgun U., Gocmez H., Kalyon D. M.
JOURNAL OF ENERGETIC MATERIALS, vol.24, no.2, pp.103-139, 2006 (Journal Indexed in SCI)
- XI. **Biocomposites of nanohydroxyapatite with collagen and poly(vinyl alcohol)**
Degirmenbasi N., Kalyon D., Birinci E.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.48, no.1, pp.42-49, 2006 (Journal Indexed in SCI)
- XII. **Oxidation of substituted benzyl alcohols by quinoxalium dichromate. A kinetic study**
Ozgun B., Degirmenbasi N.
MONATSCHEFTE FÜR CHEMIE, vol.135, no.5, pp.483-491, 2004 (Journal Indexed in SCI)
- XIII. **Quinaldinium fluorochromate and quinaldinium dichromate: Two new and efficient reagents for the oxidation of alcohols**
Degirmenbasi N., Ozgun B.
MONATSCHEFTE FÜR CHEMIE, vol.135, no.4, pp.407-410, 2004 (Journal Indexed in SCI)
- XIV. **Quinaldinium chlorochromate supported on alumina: A new and efficient reagent for the oxidation**

of alcohols

Degirmenbasi N., Ozgun B.

MONATSHEFTE FUR CHEMIE, vol.134, no.12, pp.1565-1569, 2003 (Journal Indexed in SCI)

XV. **Quinoxalinium dichromate: A new and efficient reagent for the oxidation of organic substrates**

Degirmenbasi N., Ozgun B.

MONATSHEFTE FUR CHEMIE, vol.133, no.11, pp.1417-1421, 2002 (Journal Indexed in SCI)

XVI. **Benzimidazolium bromochromate - A new reagent for bromination and oxidation**

Ozgun B., Degirmenbasi N.

SYNTHETIC COMMUNICATIONS, vol.29, no.5, pp.763-766, 1999 (Journal Indexed in SCI)

XVII. **Kinetics of oxidation of substituted benzyl alcohols by quinolinium chlorochromate**

Ozgun H., Degirmenbasi N.

JOURNAL OF CHEMICAL RESEARCH-S, no.1, pp.32-33, 1997 (Journal Indexed in SCI)

XVIII. **Quinolinium bromochromate - A new reagent for bromination and oxidation**

Ozgun B., Degirmenbasi N.

SYNTHETIC COMMUNICATIONS, vol.26, no.19, pp.3601-3606, 1996 (Journal Indexed in SCI)

Articles Published in Other Journals

I. **Transesterification of canola oil to biodiesel over potassium doped carbon nanotubes catalysts**

DEĞİRMENBAŞI AKGÜL N., BOZ N.

Research Journal Of Chemistry And Environment, vol.19, no.12, pp.31-37, 2015 (Refereed Journals of Other Institutions)

II. **Biyodizelin Yan Ürünü Gliserinin Değerlendirilmesi İçin Malzeme Tasarımı**

DEĞİRMENBAŞI AKGÜL N., BOZ N.

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.3, no.2, pp.477-482, 2015 (Other Refereed National Journals)

III. **Soya Yağı Metil Esterlerin Üretimi İçin Bazik Heterojen Katalizör Tasarımı**

DEĞİRMENBAŞI AKGÜL N., BOZ N.

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.3, no.1, pp.401-406, 2015 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

I. **BİTKİSEL YAĞLARDAN GLİSERİN İÇERMEYEN BİYOKAYIT ÜRETİMİ İÇİN HETEROJEN KATALİZÖR SENTEZİ P124 sayfa 249**

özgen a., DEĞİRMENBAŞI AKGÜL N.

12. ulusal kimya mühendisliği kongresi, Turkey, 23 August 2016 - 26 August 1916

Supported Projects

DEĞİRMENBAŞI N., Project Supported by Higher Education Institutions, Bazı Katı Heterojen Katalizörlerin Sentezi ve Bu Katalizör Sisteminde Transesterleştirme Tepkimesinin İncelenmesi, 2008 - Continues

DEĞİRMENBAŞI N., Project Supported by Higher Education Institutions, Metal nanopartikülleri ile doldurulmuş karbon nanotup/polimer kompozitlerinin sentezi, karakterizasyonu ve özelliklerinin incelenmesi, 2010 - 2013

DEĞİRMENBAŞI N., Project Supported by Higher Education Institutions, Nano Alumina destekli alkali baz katalizörlerinin hazırlanması, karakterizasyonu ve bu katalizörler varlığında yağlardan transesterleşme tepkimesi ile biyodizel üretimi, 2009 - 2012

Citations

Total Citations (WOS):646

h-index (WOS):13